Project Report on

License Portal Management For

PTC Software India

For

MES's Institute of Management & Career Courses (IMCC), Pune

Submitted to:	**Submitted by:**
Swapnaja Patwardhan	Akshata R. Gawari

MES's Institute of Management & Career Courses (IMCC), Pune

131, Mayur Colony, Kothrud Pune, Maharashtra

April 6, 2020

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms. Akshata Gawari** final year MCA student of **MES's Institute of Management & Career Courses [IMCC], Pune** has been associated with us as **"Project Intern"** from July 2019 till date.

As per Company policy we cannot provide any kind of source code or executable to the Trainee. During project the candidate has worked with utmost dedication & sincerity. The candidate has worked on:

"License Management Portal"

The project was carried out in partial fulfillment of requirement for the award of degree of **Master Of Computer Applications** from **Savitribai Phule Pune University** for the academic year 2019-2020.

Your Sincerely,

for PTC Software (India) Pvt. Ltd.

Rucha Mantri

HR Section Manager

Maharashtra Education Society's

INSTITUTE OF MANAGEMENT AND CAREER COURSES (IMCC)

(Recognized by Savitribai Phule Pune University & Approved by AICTE)

131, Mayur Colony, Kothrud, Pune 411 038.

Tel. +91-20-25466271, 25463453 • E-mail: director.imcc@mespune.in

DR. SANTOSH DESHPANDE
Director
Web Site: https://imcc.mespune.in

Ref. No : MCA/Project/023/2020-21

Date : 14/09/2020

CERTIFICATE

This is to certify that the Project Report entitled ***"License Management Portal" is*** prepared by ***Akshata Rohidas Gawari ,*** a student of ***M.C.A.*** Course for the Academic Year 2019-20 at M.E.Society's Institute of Management & Career Courses (IMCC), Pune - 411 038. M.C.A Course is affiliated to Savitribai Phule Pune University.

To the best of our knowledge, this is original study done by the said student and important sources used by him have been duly acknowledged in this report.

The report is submitted in partial fulfillment of M.C.A. Course for the Academic Year 2019-20 as per the rules & prescribed guidelines of Savitribai Phule Pune University.

Dr. Ravindra Vaidya
HOD, Department of MCA, IMCC

Dr. Santosh Deshpande
Director, IMCC

ACKNOWLEDGEMENT

It is my proud privilege to express gratitude to the entire management and teachers of the institute for providing me with the opportunity to avail the excellent facilities and infrastructure of the institute. The knowledge and values inculcated have proved to be of immense help at the very start of my career.

I am grateful to Dr Santosh Deshpande (Director, MES's IMCC), Mr. Paritosh Nagda (**Technical Lead**), and Swapnaja Patwardhan (Internal Guide) for their astute guidance, constant encouragement and sincere support for this project work.

I also thank my project mentors who showed their concerns for my work, encouraged me to keep my best foot forward and gave

valuable suggestions which not only helped me in my project work but will be useful in future too.

I would like to thank PTC (Parametric Technology Corporation) for providing me with an opportunity to pursue my industrial training, as it is an important part of the MCA course and it is the one that exposes you to the industry standards and makes you adapt yourself to the latest trends and technologies. At the same time, it gives an experience of working on a live project. I feel proud and privileged in expressing my deep sense of gratitude to all those who have helped me in presenting this assignment.

Sincere thanks to all my seniors and colleagues at company for their support and assistance throughout the project.

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CHAPTER 1:

INTRODUCTION

1.1 Company Profile:

PTC (formerly Parametric Technology Corporation) is a computer software and services company founded in the 1985 and headquartered outside of Boston, Massachusetts. The company was a pioneer in parametric, associative feature-based, solid computer-aided design (CAD) modelling software in 1988, including an Internet-based product for Product Lifecycle Management (PLM) in 1998. PTC markets products and services and an Internet of things (IoT) and augmented reality (AR) platform for partners and developers.

PTC has six core product families:

1. Creo- It includes product design and engineering software solutions.
2. Windchill- Windchill PLM includes a portfolio of different PLM capabilities such as CAD models, documents, technical illustrations, embedded software and calculation.

3. Mathcad- Engineering calculation software that is used by engineers to solve, document and share the calculations used for product design.
4. Integrity- The PTC Integrity product provides a set of Application Lifecycle Management (ALM) and Systems Engineering capabilities.
5. Servigistics- Service lifecycle management SLM software that is used by manufacturers to understand how service planning, customer service, and analysis of returned product data can improve service value over a product's life,
6. ThingWorx-- ThingWorx is based on ThingWorx Foundation, an application enablement platform used as a design and runtime engine for IoT applications. It also includes ThingWorx Analytics, Thingworx Industrial Connectivity, and Vuforia studio.

The Company's technology is primarily used by discrete manufacturers to design, operate and maintain complex

products. PTC's technology is also used to connect products to the Internet for purposes of capturing and analyzing information from them.

Vision:

PTC has the most robust Internet of Things technology in the world. In 1986 we revolutionized digital 3D design, and in 1998 we were first to market with Internet-based PLM. Now our leading IoT and AR platform and field-proven solutions bring together the physical and digital world to reinvent the way you create, manufacture, operate, and service products. With PTC, global manufacturers and an ecosystem of partners and developers can capitalize on the promise of the IoT today and drive the future of innovation.

Introduction:

License Portal is a web-based application in which user can install, deinstall and move licenses for various products. It also provides address, contact and hardware management.

License management report can also be generated which contains detail information of the licenses. License portal is available in various languages, so user can change it as per the preference

1.2 Existing System & Need for system:

Existing System:

An existing project management system was a desktop application on Oracle. The organizations who are using or purchased PTC product are end users of license management.

Need for System:

- In the existing system, the user/organization was required to send a request to the PTC Service desk.
- And as per the request from user/organization the Service desk staff used to install, uninstall, move licenses, etc.
- As the amount of product users increased exponentially with time, it was a tedious job to maintain thousands of records with only a smaller number of staffs.
- Also, there was a possibility of human errors in such tedious work.

- Therefore, to solve this problem, there was a need of Software that will do this processing task automatically just on simple user interaction.

1.3 Scope of the system:

- The License portal will allow the user to login as a customer and review his organization's licenses and perform action on it.
- This system will provide repository to download licenses of some specific products retrieved by the customer in last 7 days.
- The system will be able to generate a detailed spreadsheet of License report of the products.
- This system will help to change hardware information (HostID's) and also enable user to create, edit or deactivate contact and address information.
- It will allow user to search PTC Sales Representatives or resellers in their area.
- Users can also log a case if they are facing any issue regarding licensing.

- FAQs, tutorials, documentation, downloads and other related tools will also be provided for supporting the users.

1.4 Operating Environment

Client side:

- Processor: 1 gigahertz (GHz) or faster
- RAM: 1 GB or higher
- Hard disk: 10 GB or higher
- Internet: Speed of 500 Kbps per second or higher.
- Web browser such as Internet Explorer, Chrome or Firefox.

Server side:

- Operating System: Red Hat Enterprise Linux 6
- Processor: AMD Opteron 6378 2.4 Hz 16 core
- RAM: 64 GB
- Hard disk: 5 TB
- Application Server: JBOSS Enterprise Application Platform (EAP) 6.4

1.5 Detailed Description of Technology Used:

- Web MVC Framework: Spring4
- Object Relational Mapping (ORM) Framework: JPA2
- Web Pages: JSP
- Programming Language: jdk1.8
- User Interface Framework: jQuery, Foundation
- User Interface Validation: JavaScript
- Application Server: JBOSS EAP7
- Database:Oracle

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CHAPTER 2:

Proposed System

2.1 Proposed System

Problem Statement

In the existing system, the user/organization was required to send a request to the PTC Service desk and as per the request from user/organization the Service desk staff used to install, desinstall, move licenses, etc. As the amount of product users increased exponentially with time, it was a tedious job to maintain thousands of records with only a smaller number of staff. Also, there was a possibility of human errors in such tedious work.

Product position statement

For customers, who want to install, deinstall or move licenses, is a Web based application that allows customers to install, deinstall or move licenses for the product he purchased unlike existing system, the customer was required to send a request

to the PTC Service desk our product allows customer to review his organization's licenses and perform action on it, generate spreadsheet of License report of the products.

Product Overview

The License portal allows the user to login as a customer and review his organization's licenses and perform action on it. The system can generate a detailed spreadsheet of License report of the products. System can also change hardware information (HostID's) and enables user to create, edit or deactivate contact information.

Allows user to search PTC Sales Representatives or resellers in his/her area. User can also log a case if he is facing any issue regarding licensing. FAQs, tutorials, documentation, downloads and other related tools will also be provided to support the user.

Summary of capabilities

- **Mission and Vision Statement**
    - To enable our customers to manage their product licenses and several Host IDs.
    - To create a simple and user friendly interface for managing licenses.
- **Key Products and Services**
    - License Portal can license almost all PTC products.
    - Also our Business team is working efficiently in tracking the logged cases by the customer.

Assumptions and dependencies

- We assume that customer has received a Software Order Confirmation Email which consist of Customer number, SON, SCN, Site Number and other details.
- For license file generation the application depends upon JMS (Java Message Service) which consist of

asynchronous calls so we cannot predict the time of retrieval of file.

- Also, it depends on license cutter execution which is nothing but a UNIX executable file that is responsible for its generation.

2.2 Feasibility Study

A Feasibility study is the study of positive possibilities of the project. The different types of feasibilities are as follows: -

Technical feasibility

Technically this project is very dedicated and has systematic execution. This website can run efficiently even on a very ordinary configuration machines. So developing License management is technically feasible.

Operational feasibility

License management is very easy to operate and has a user friendly designs so that the end user will be able to handle it casually. So License management is quite operationally feasible.

Economic feasibility

For any project to begin there is a fixed budget of organization allotted to it. To implement the entire licensing functionality on a web site is possible in the decided budget of organization.

2.3 Objectives of Proposed System

- To assist with License Management for client products.
- To improve efficiency of overall operations.
- To prevent lost revenue and slow licensing cycles.
- To integrate industry-appropriate metrics in order to better understand operations.
- To provide a consistent license management of a product throughout its lifecycle.
- To automate repetitive manual processes.
- To store license related data in a secure manner.
- To make data available and accessible from any location.

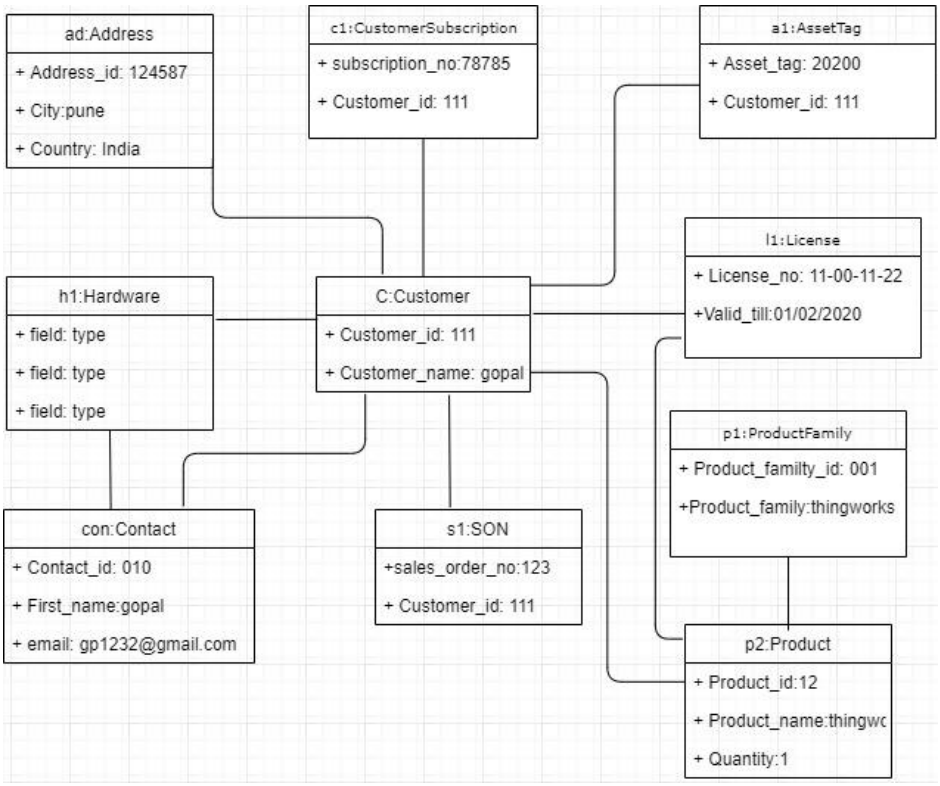
2.4 User Requirements

- Users must have a login ID and password to login to the website.
- User must know either one of these - Sales Order Number (SON), Service Contract Number (SCN), Site Number.
- User must be aware about general information about products he purchased.
- Users must be able to search for objects and fields throughout the system.
- Users must have a basic knowledge of operating website.

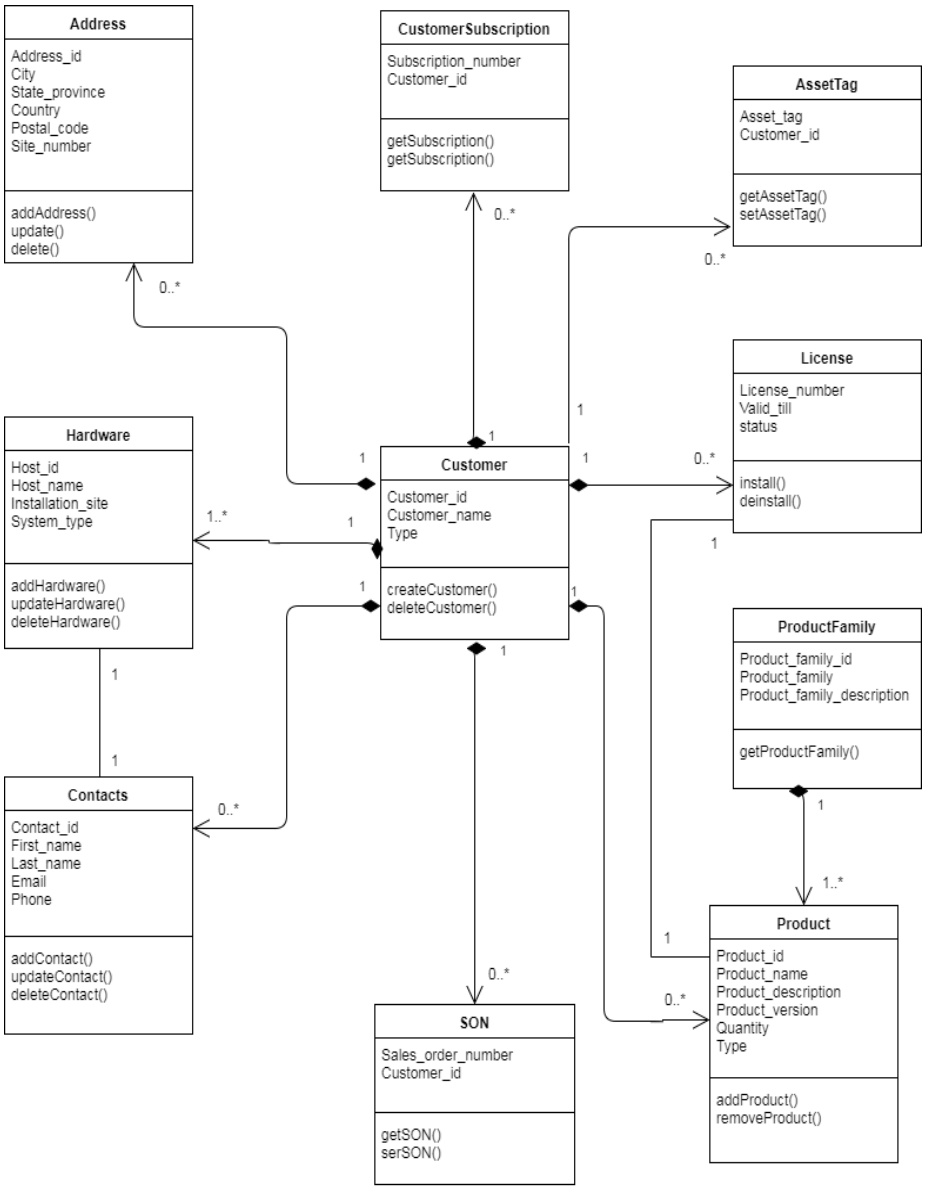
CHAPTER 3

Analysis and Designs

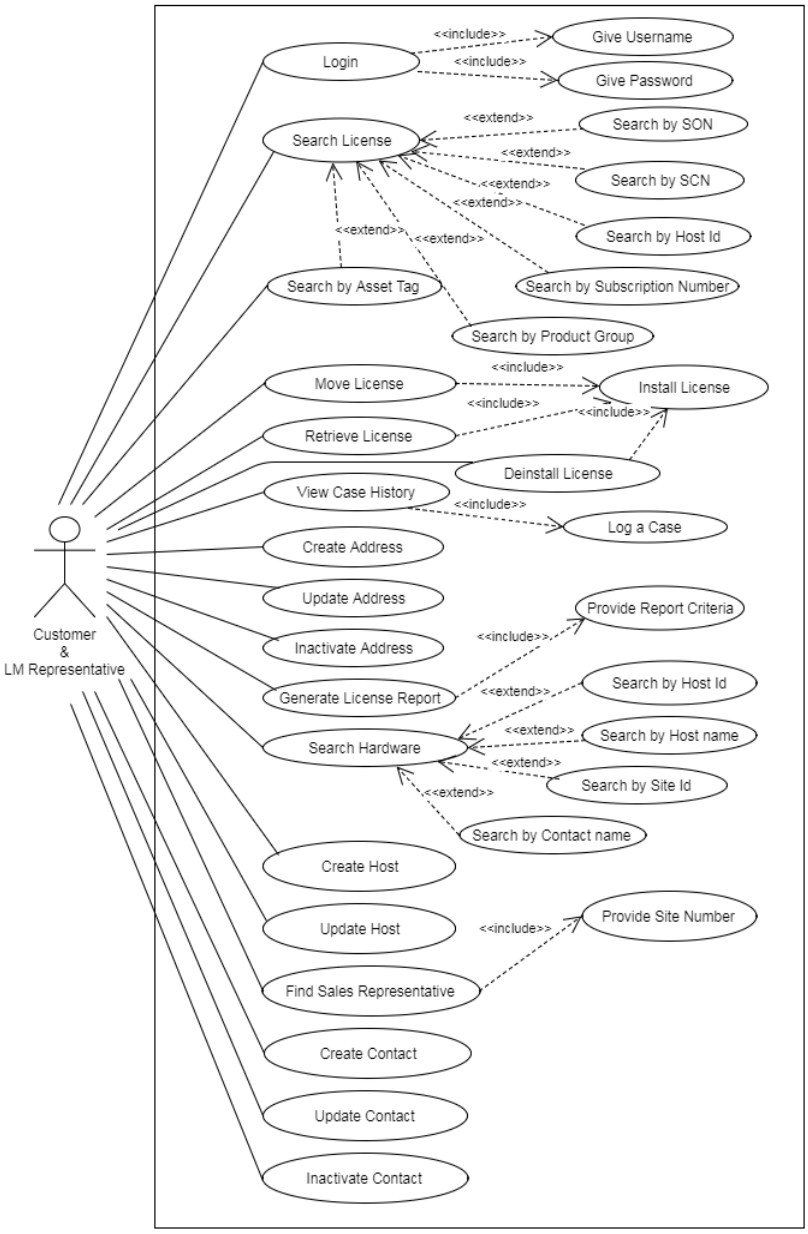
3.1 Object diagram



3.2 Class Diagram



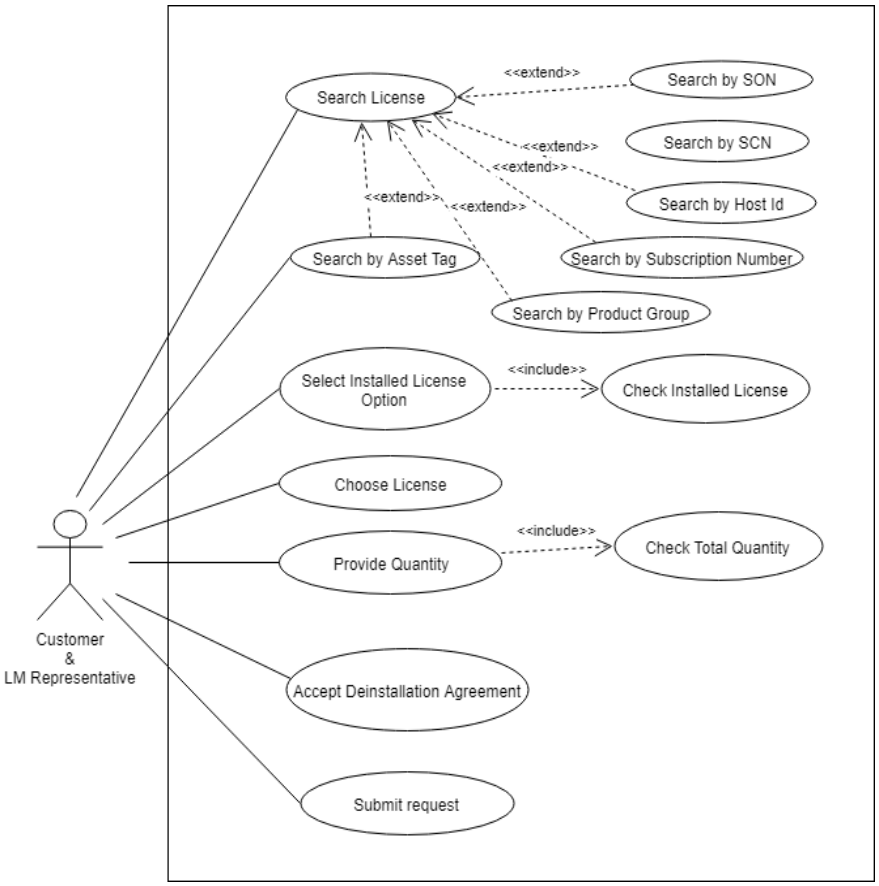
3.3 Use Case Diagram



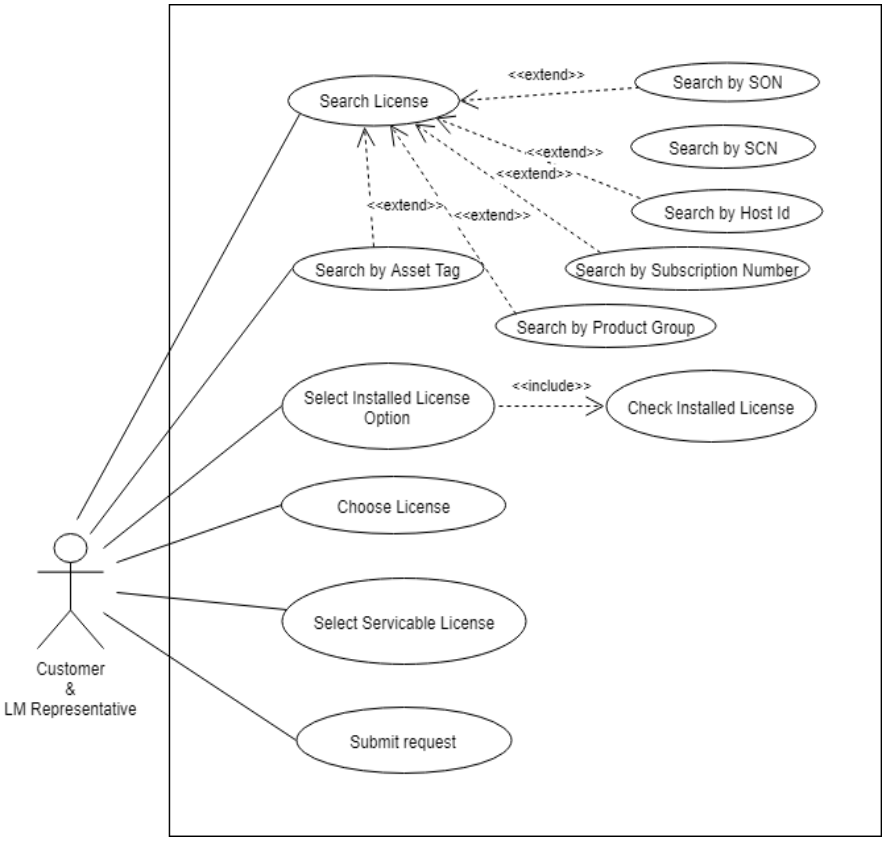
Install License

Move License

Deinstall License

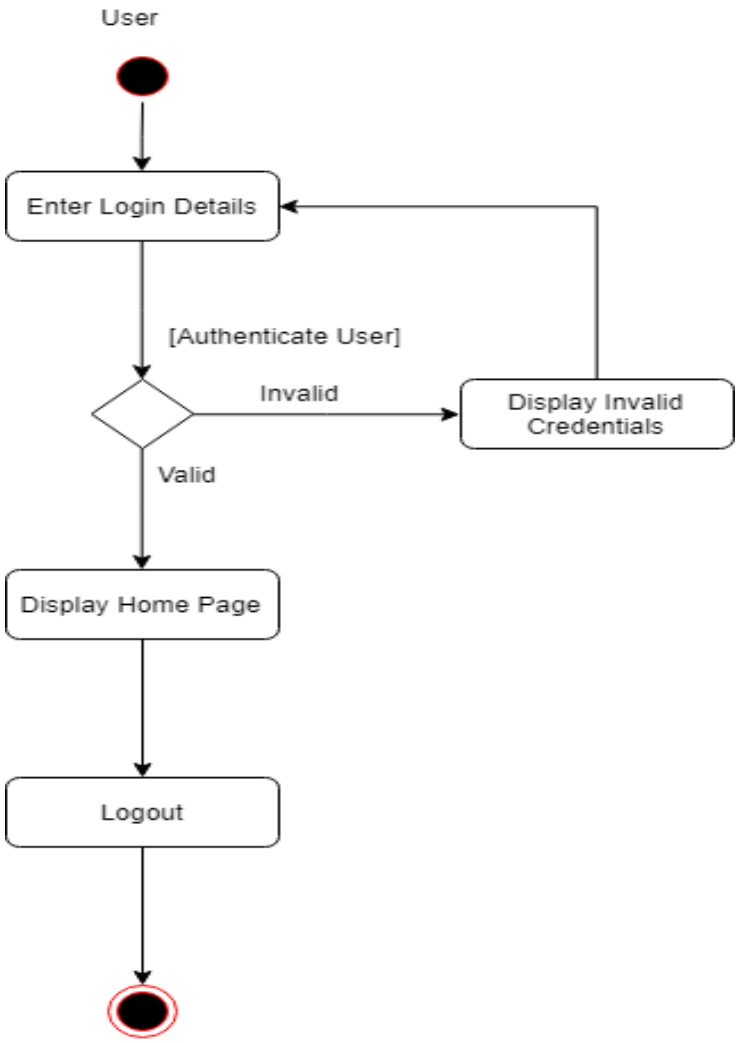


Manage Temporary Lock Licenses

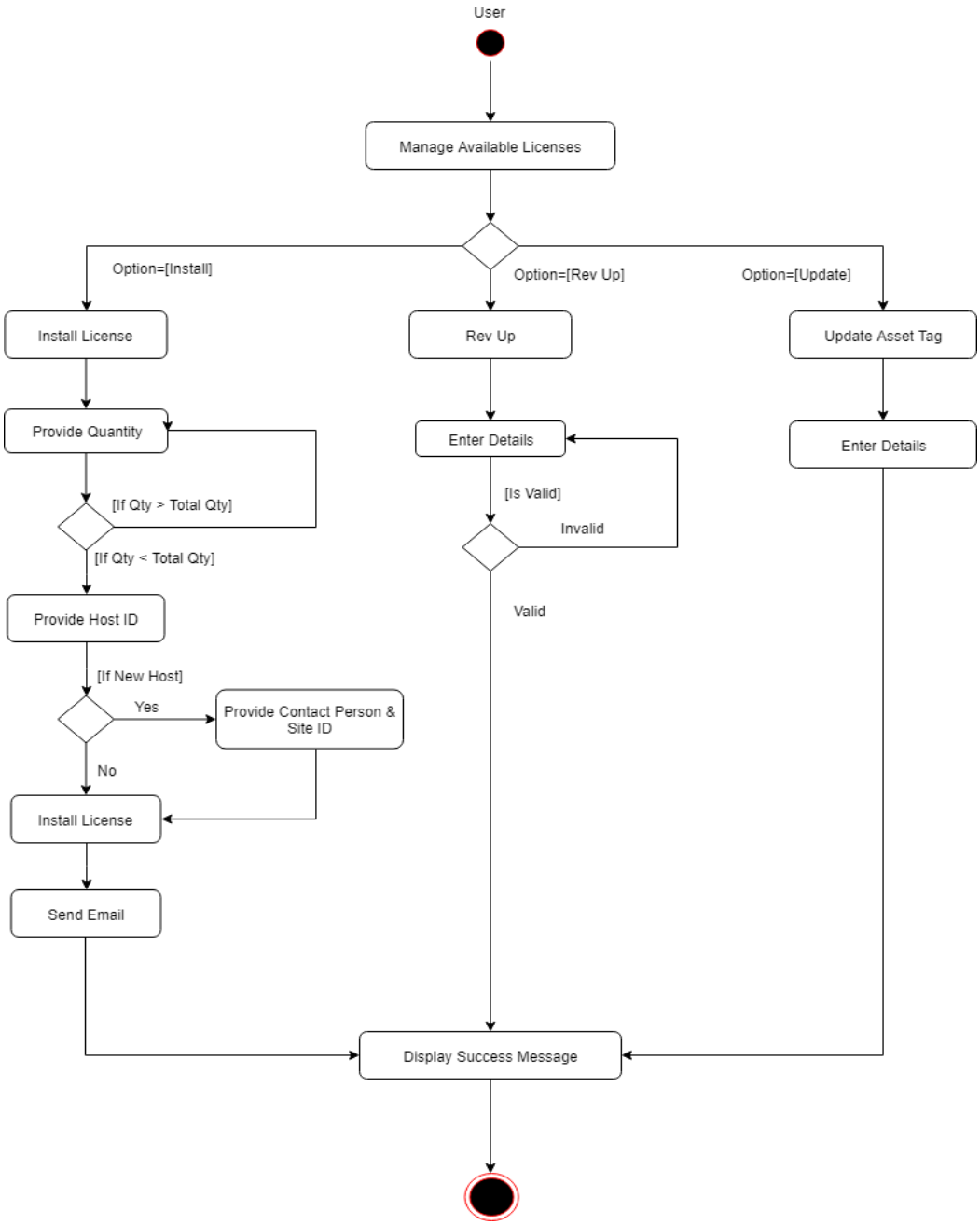


3.4 Activity Diagrams

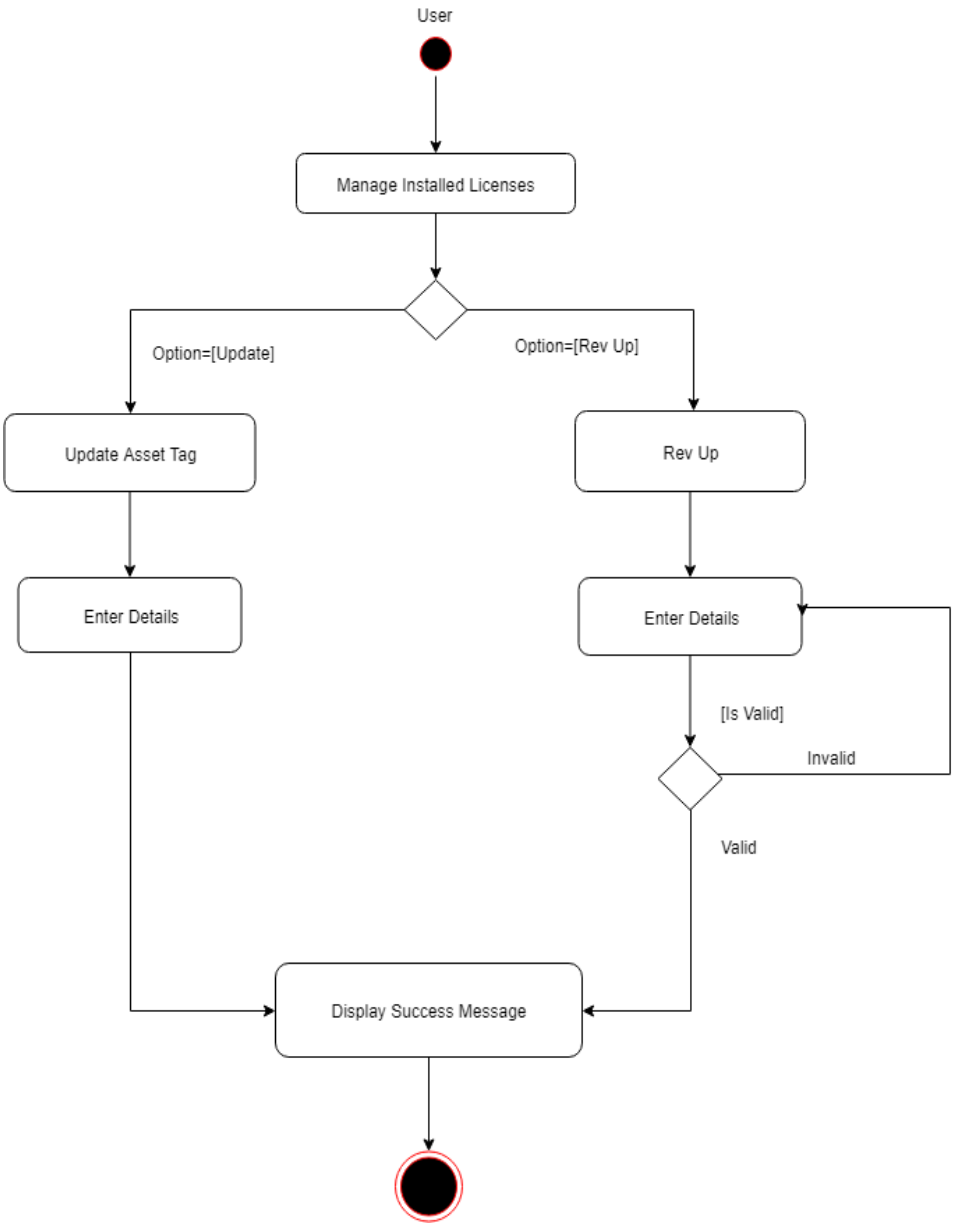
Login Activity



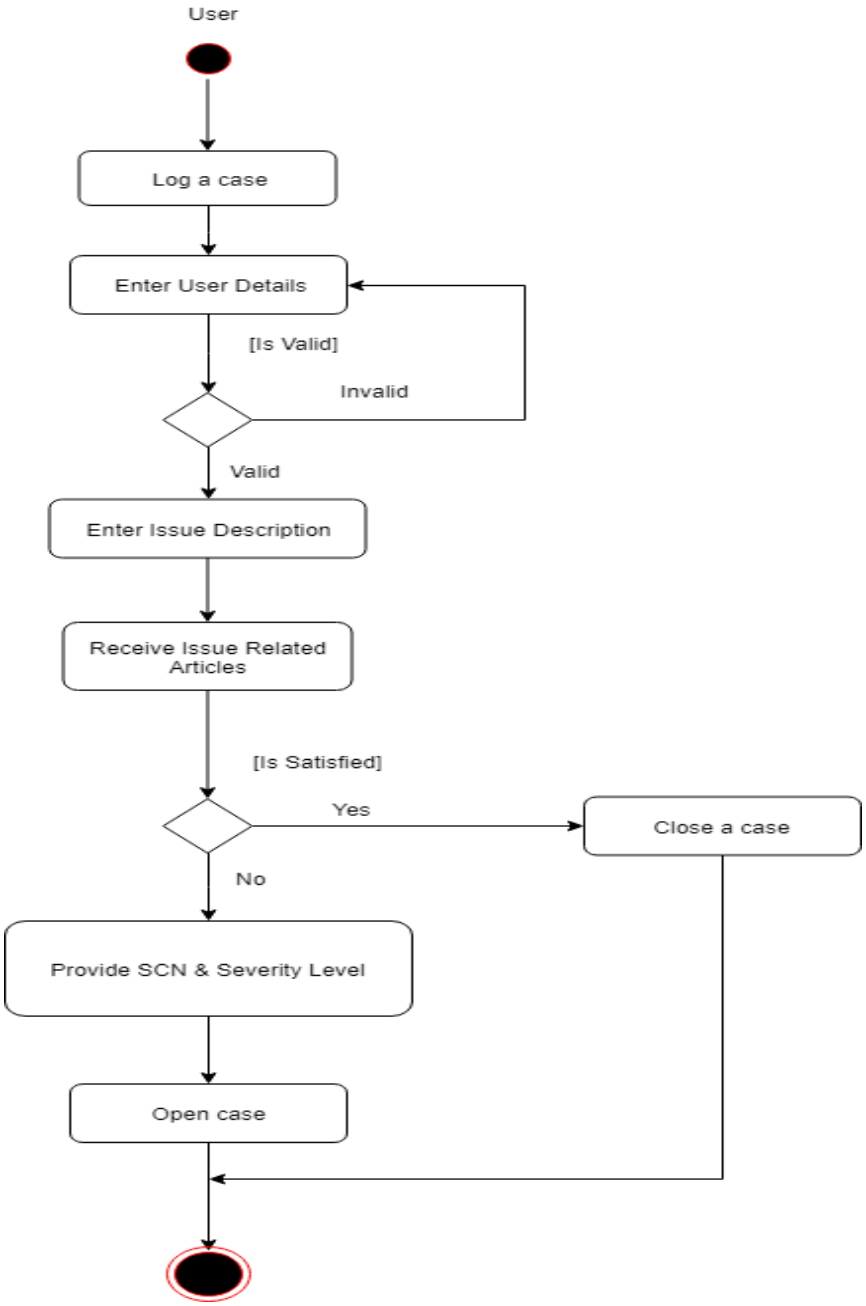
Available License Management Activity



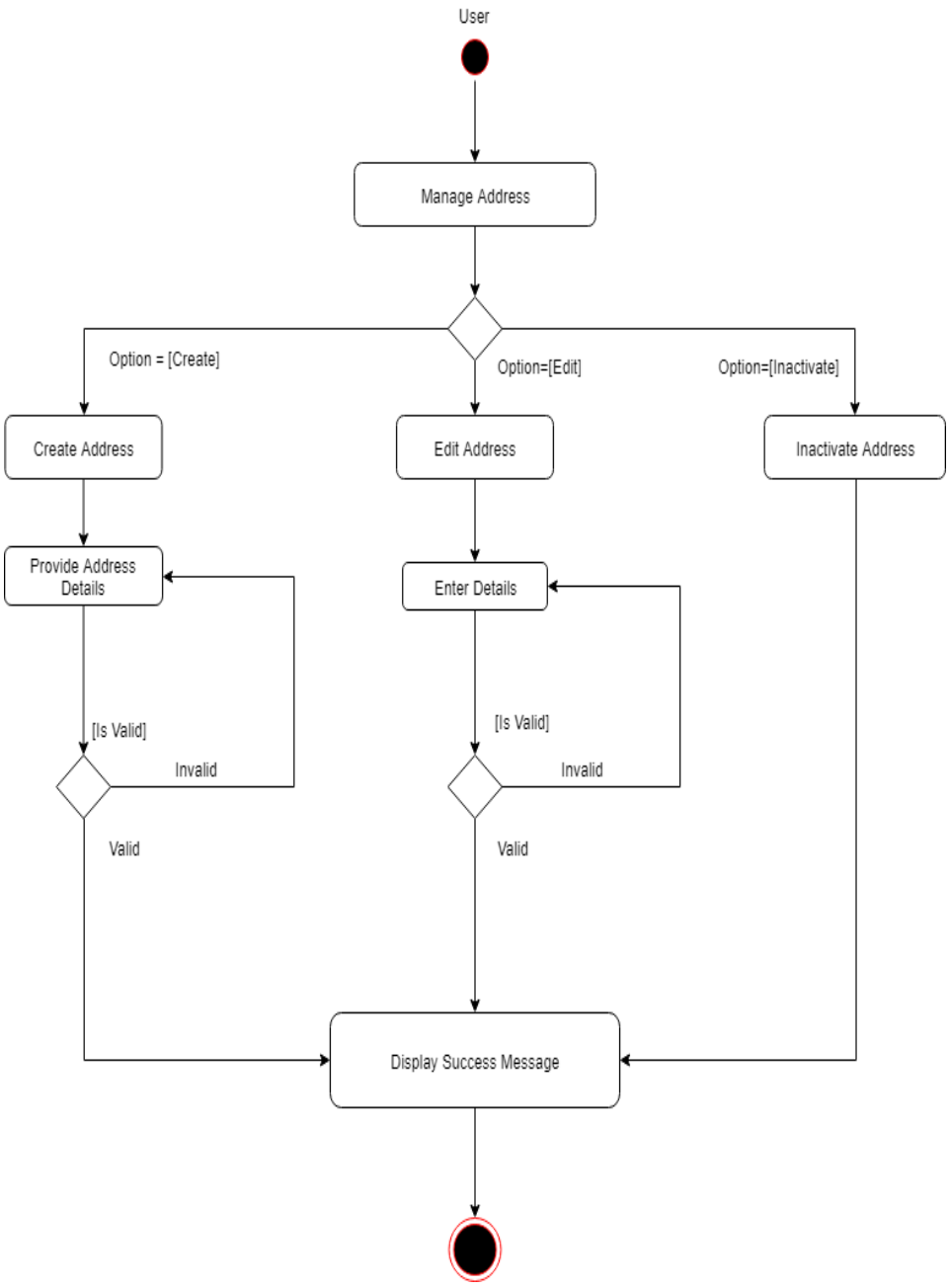
Installed License Management Activity



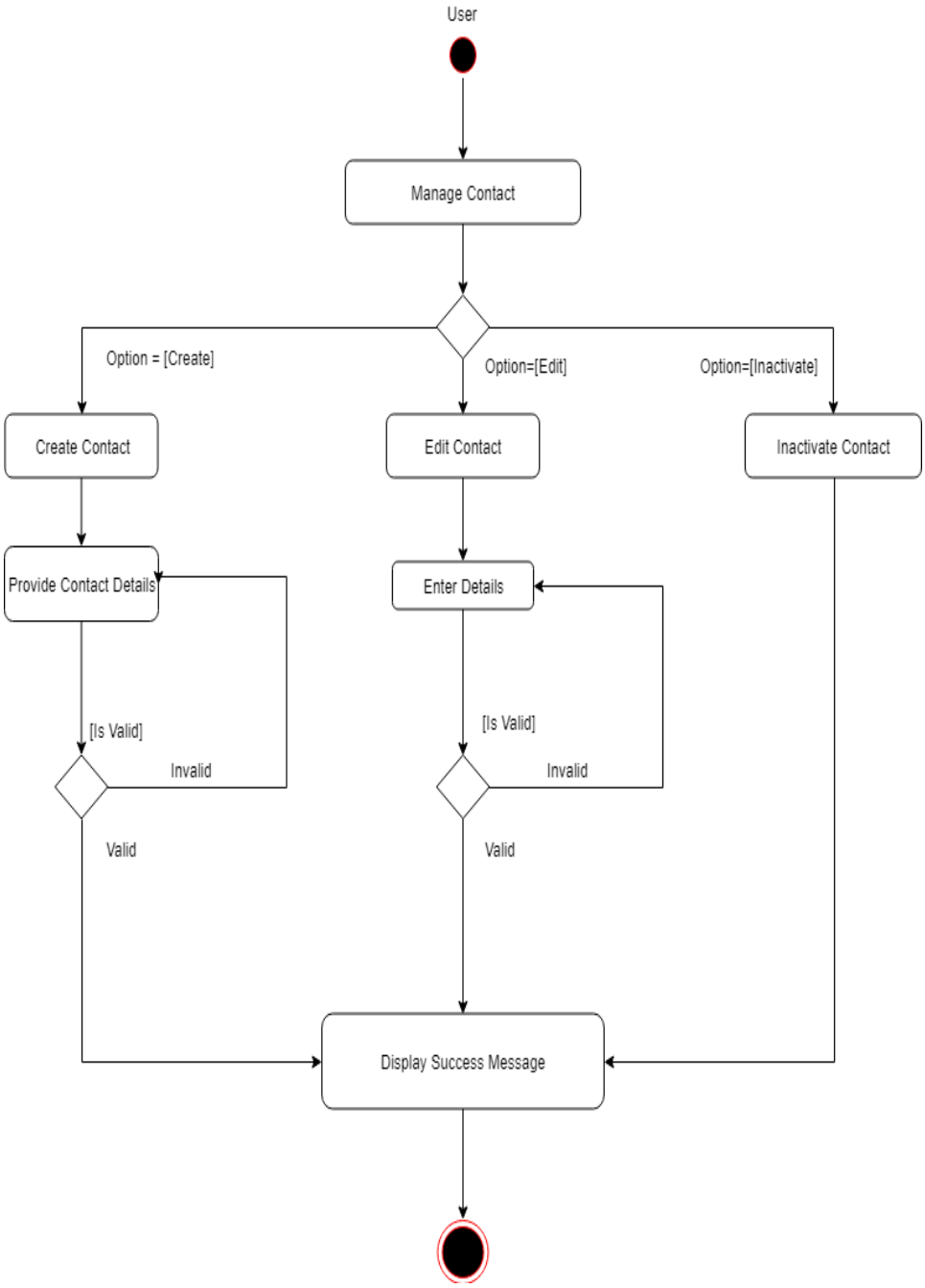
Case Logger Activity



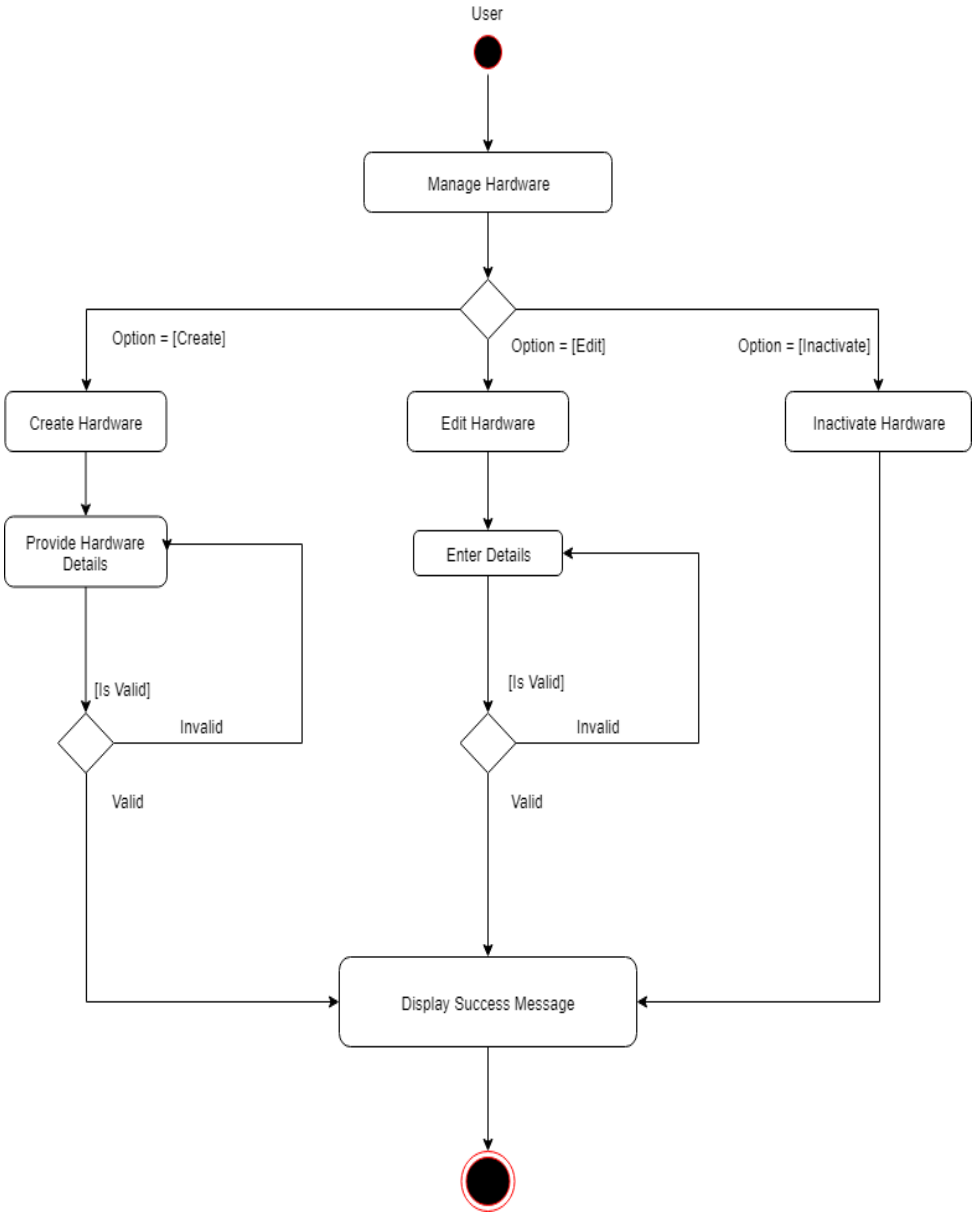
Address Management Activity



Contact Management Activity

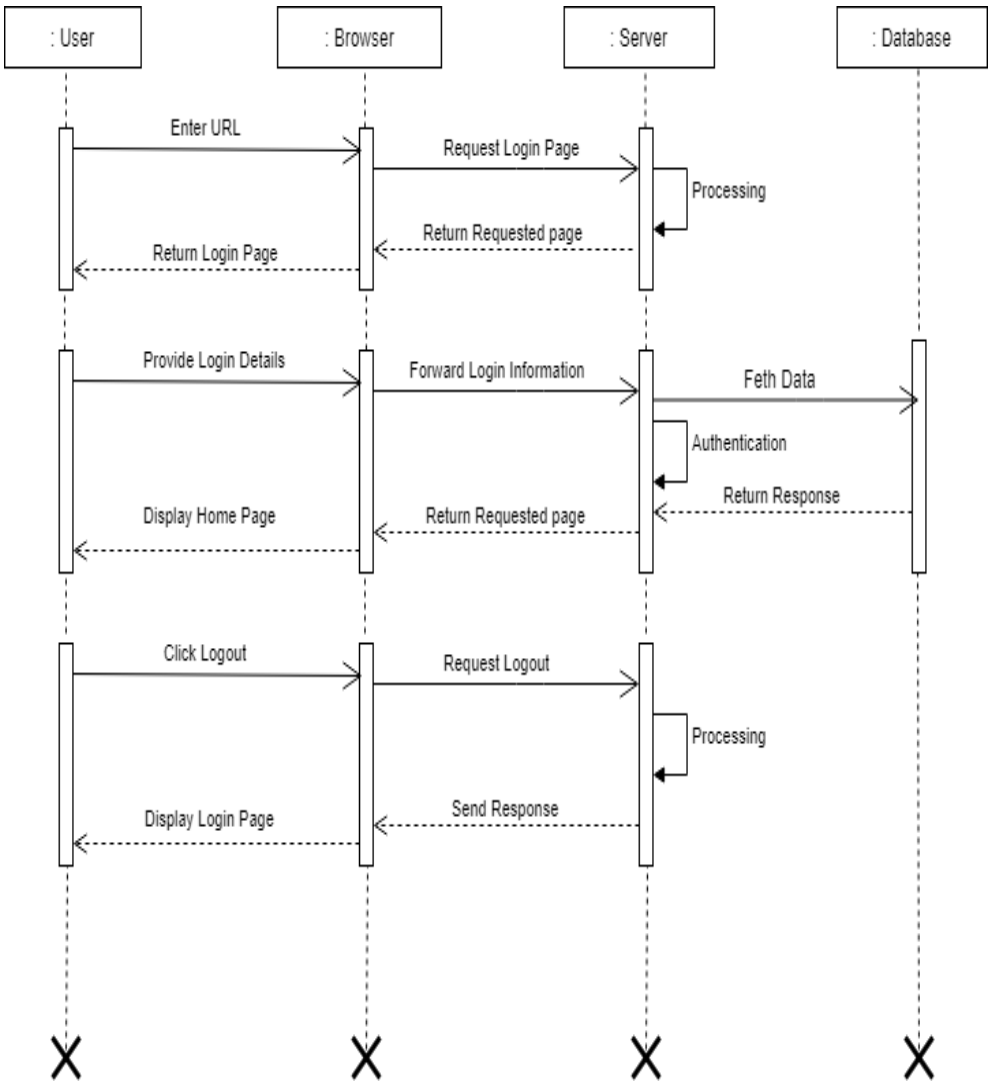


Hardware Management Activity

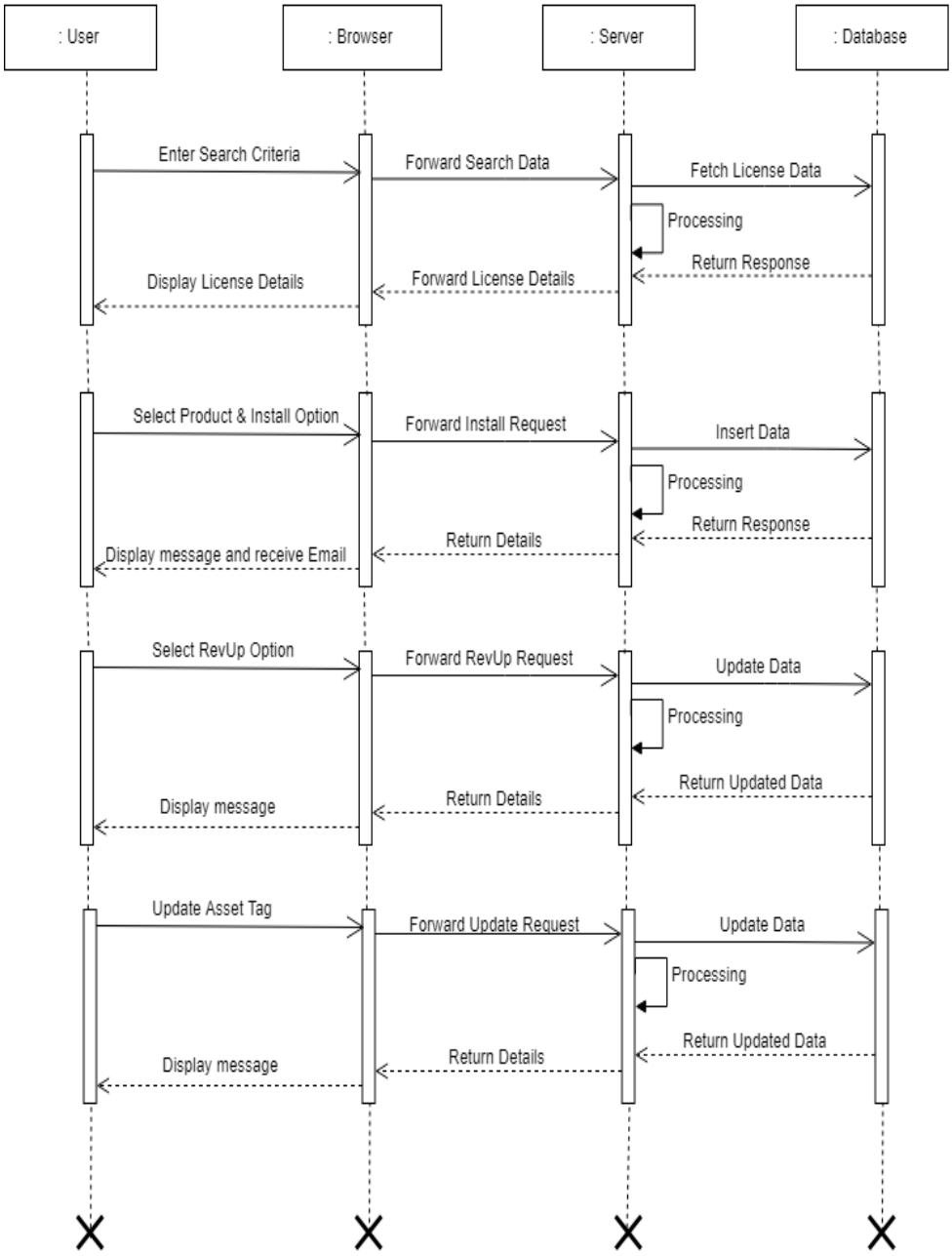


3.5 Sequence Diagram

Login Sequence

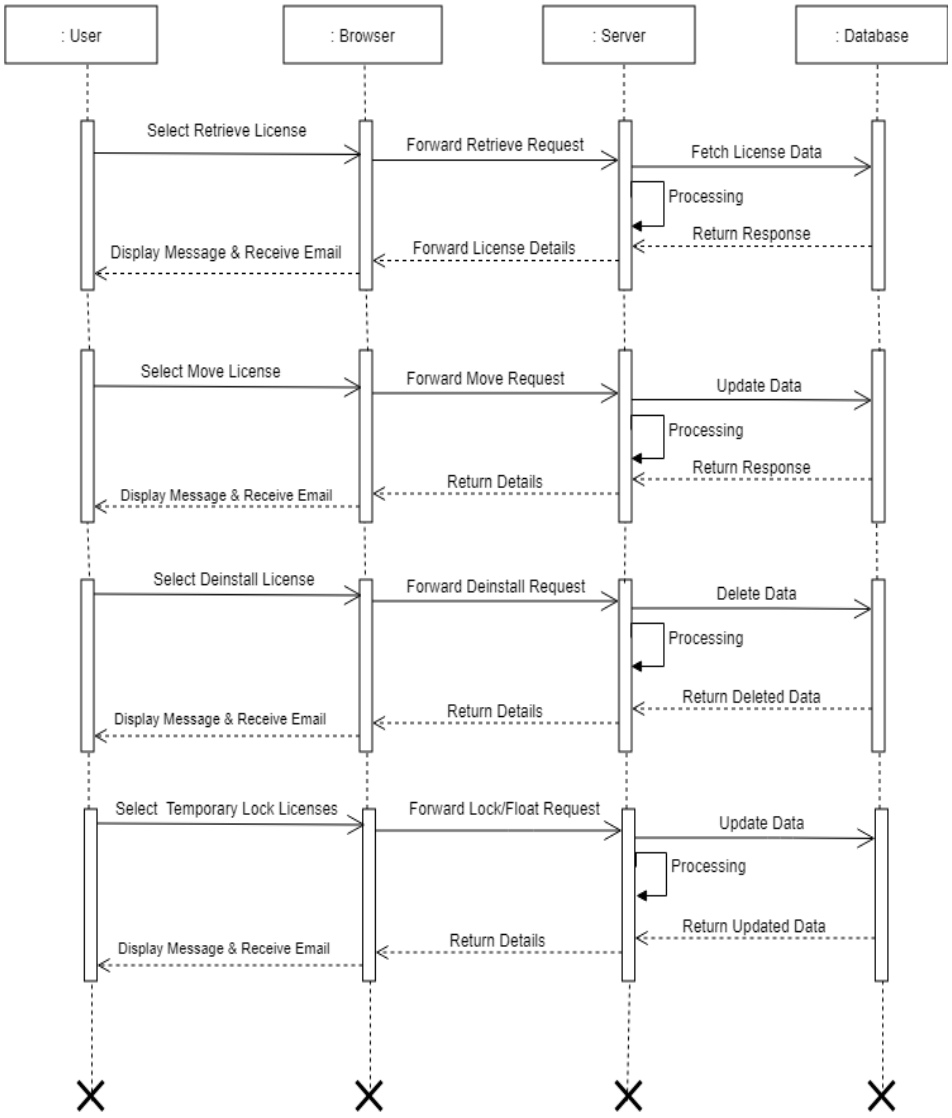


License Actions – Search, Install and RevUp

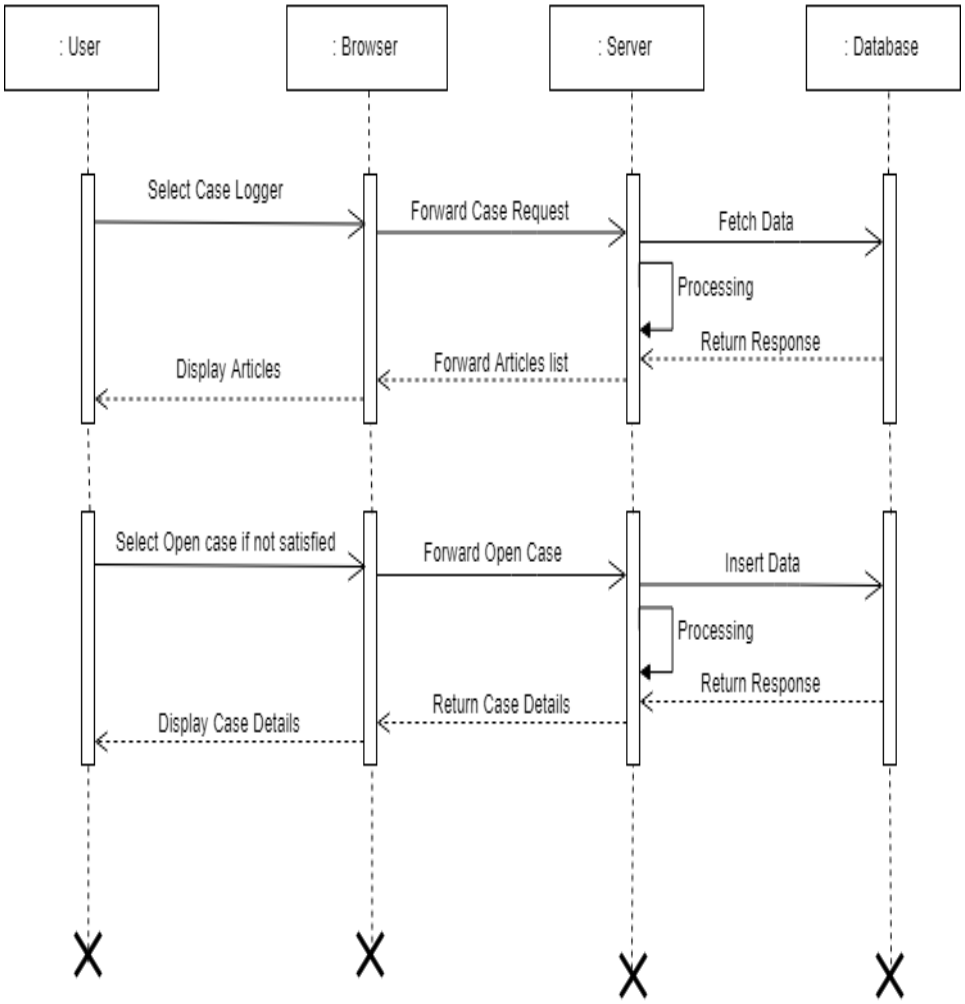


License Actions – Retrieve, Move, Deinstall,

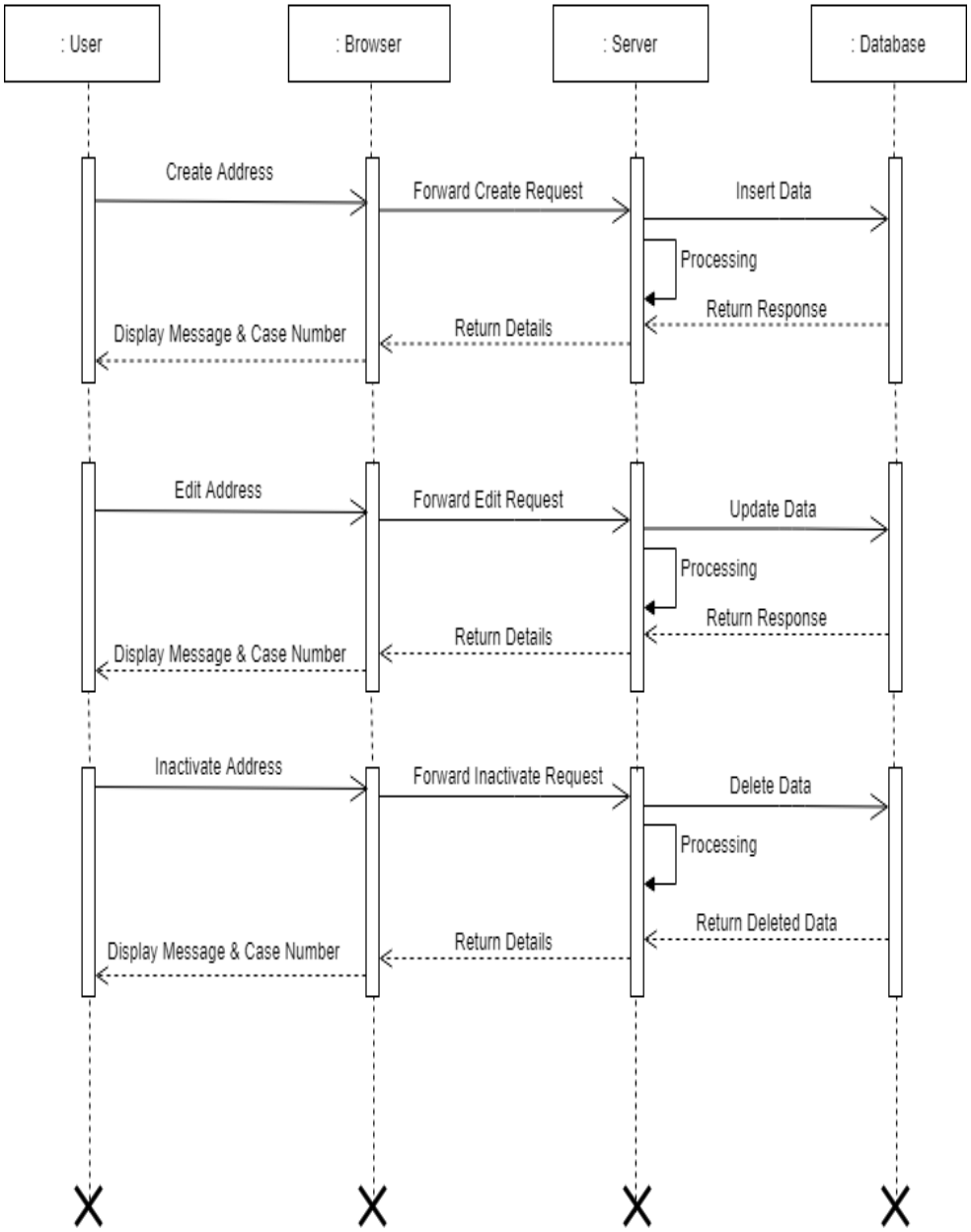
Temporary Lock Licenses



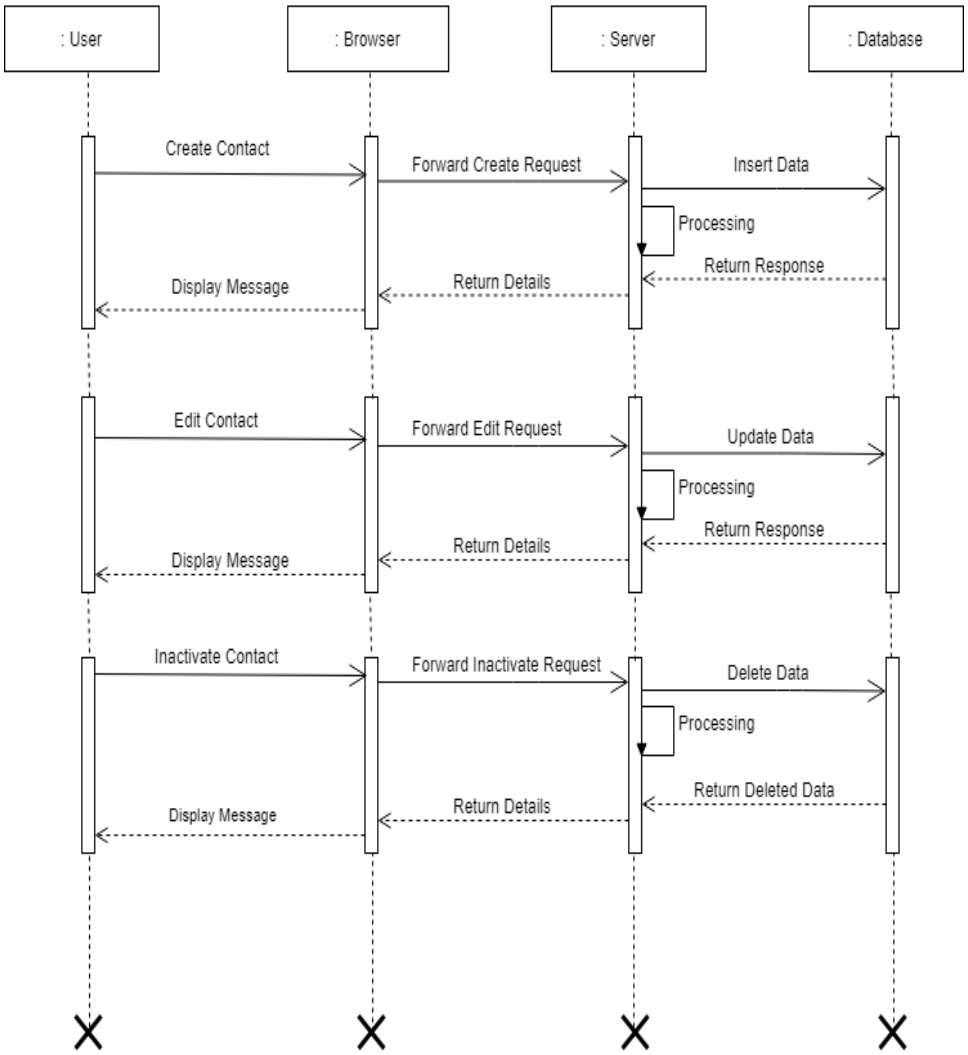
Case Logger


: User
: Browser
: Server
: Database
Select Case Logger
Forward Case Request
Fetch Data
Processing
Return Response
Display Articles
Forward Articles list
Select Open case if not satisfied
Forward Open Case
Insert Data
Processing
Return Response
Return Case Details
Display Case Details

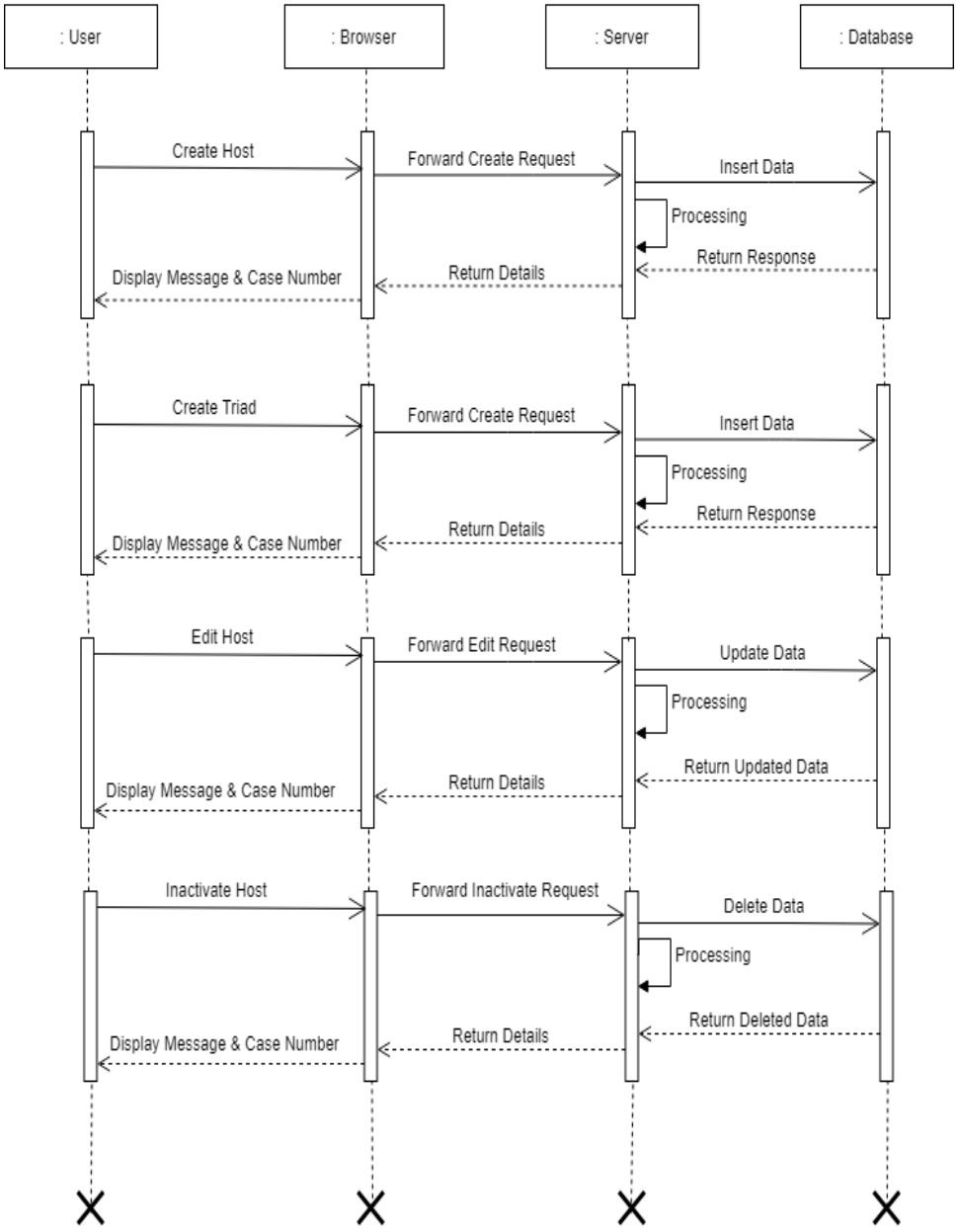
Address Management



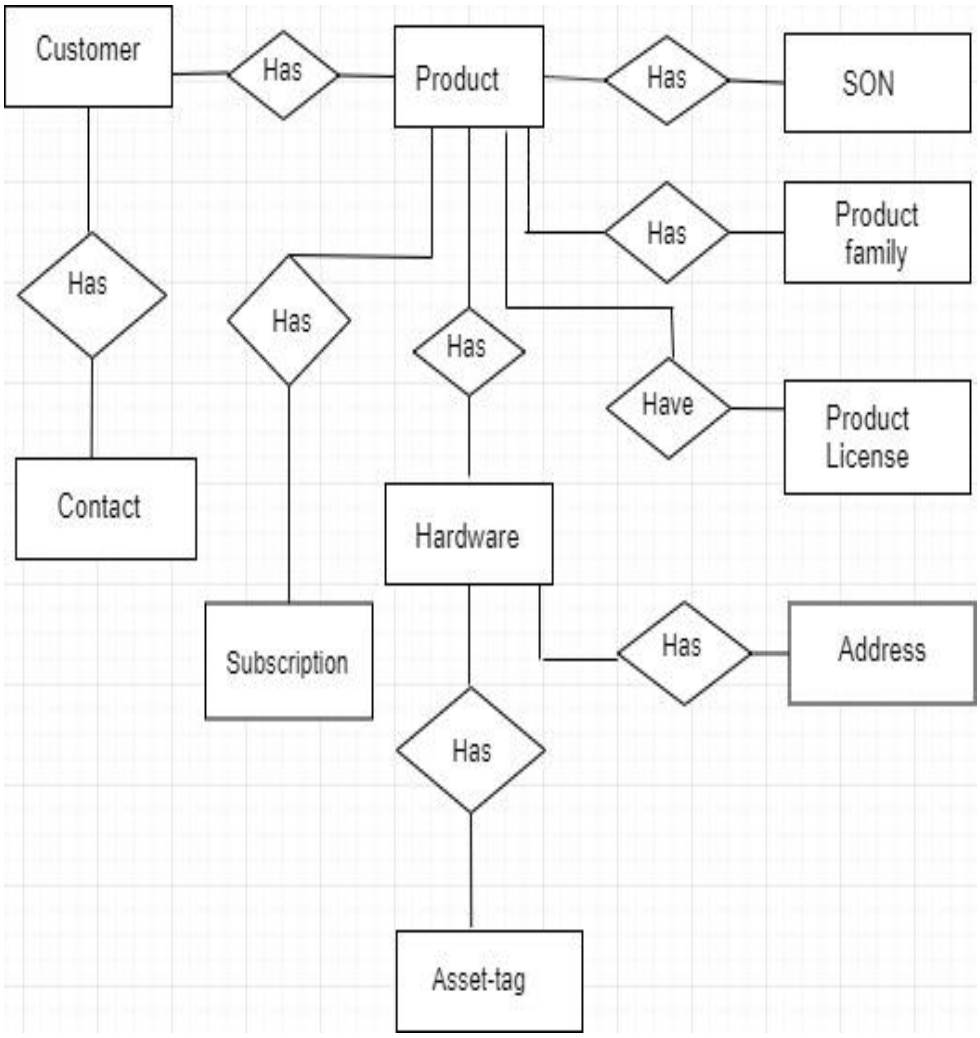
Contact Management



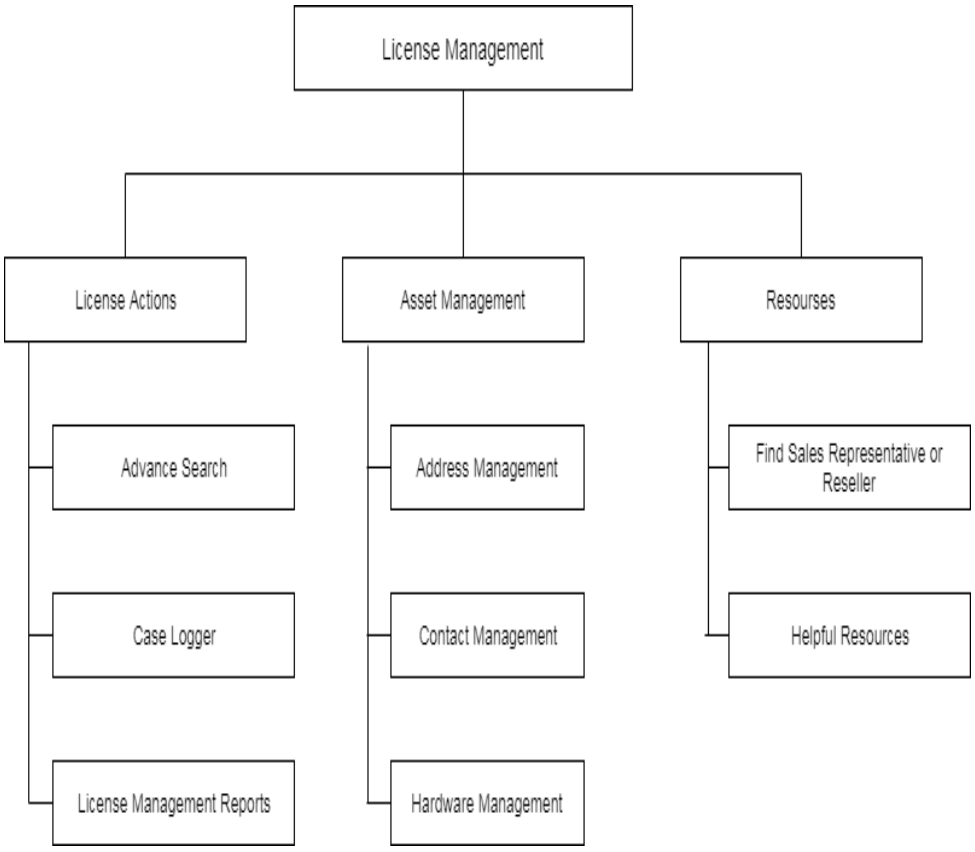
Hardware Management



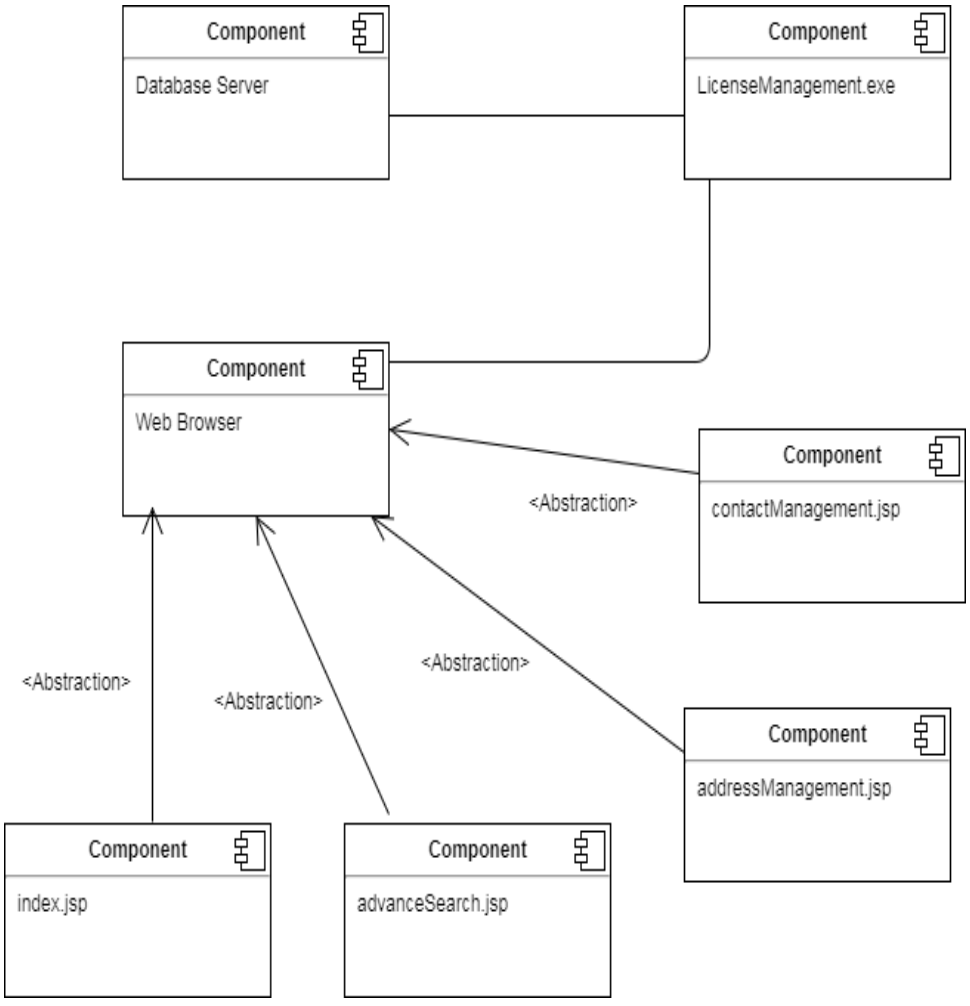
3.6 Entity Relationship Diagram



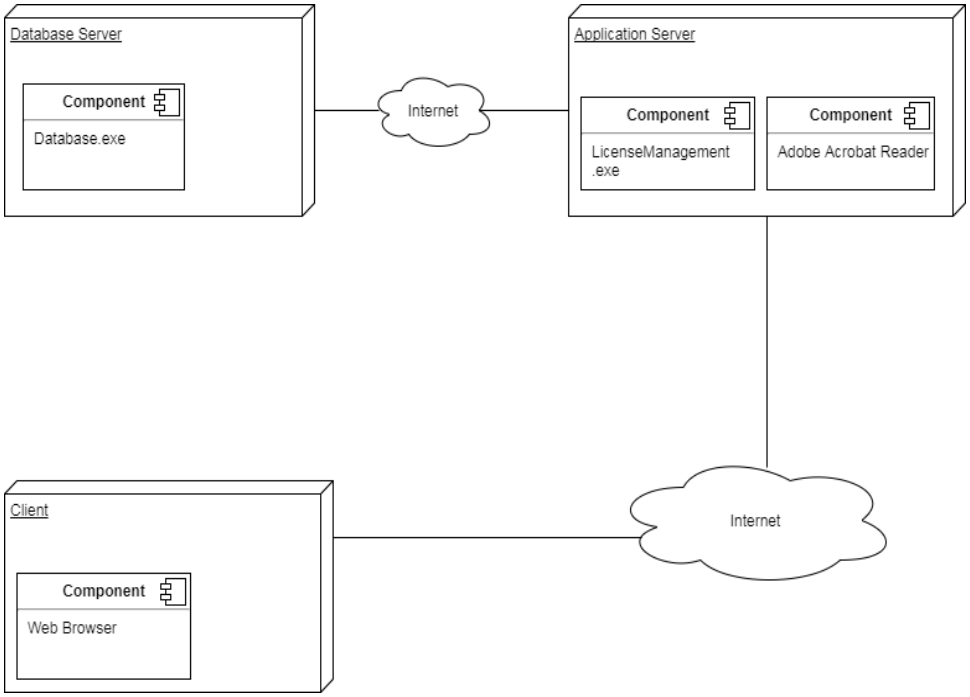
3.7 Module Hierarchy Diagram



3.8 Component Diagram



3.9 Deployment Diagram



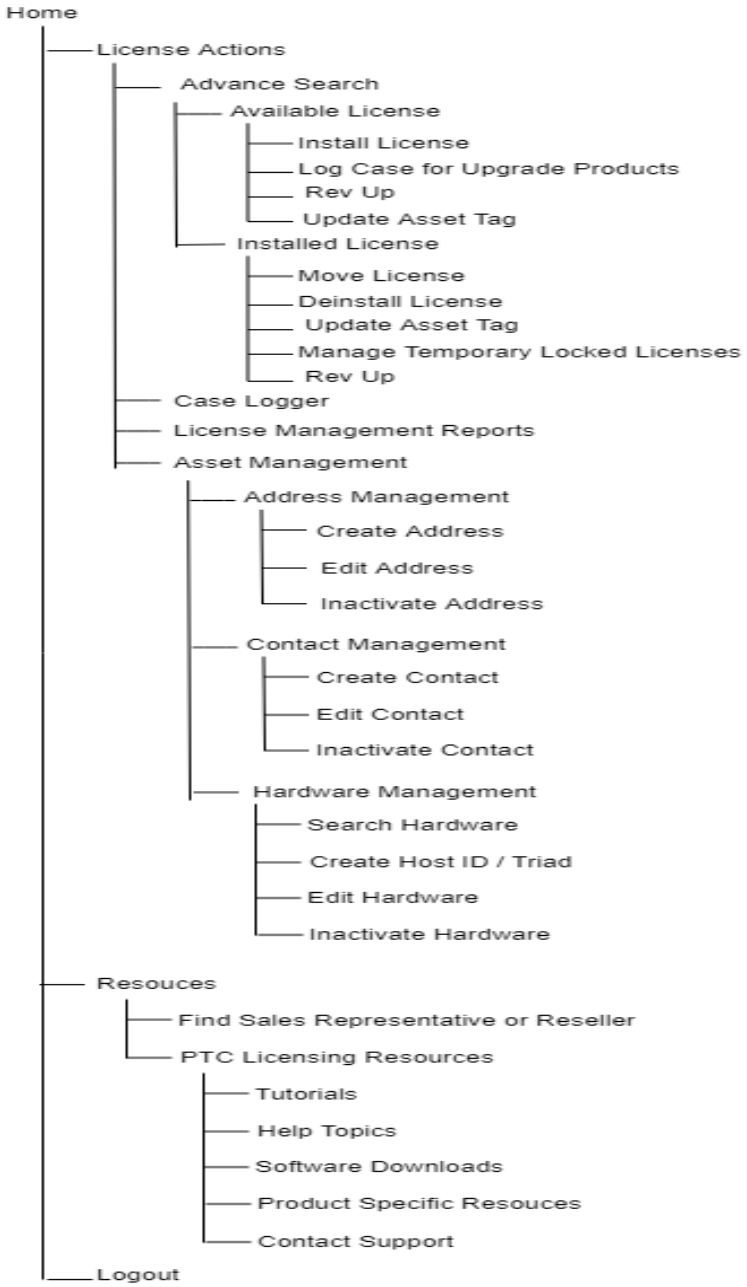
3.10 Module Specifications

User:

- Search License
- Install License
- Move License
- Retrieve License
- Log a case
- View Case History
- Deinstall License
- Create Address
- Update Address
- Inactivate Address
- Generate License Report
- Search Hardware
- Create Host / Triad
- Update Host
- Inactivate Host
- Create Contact

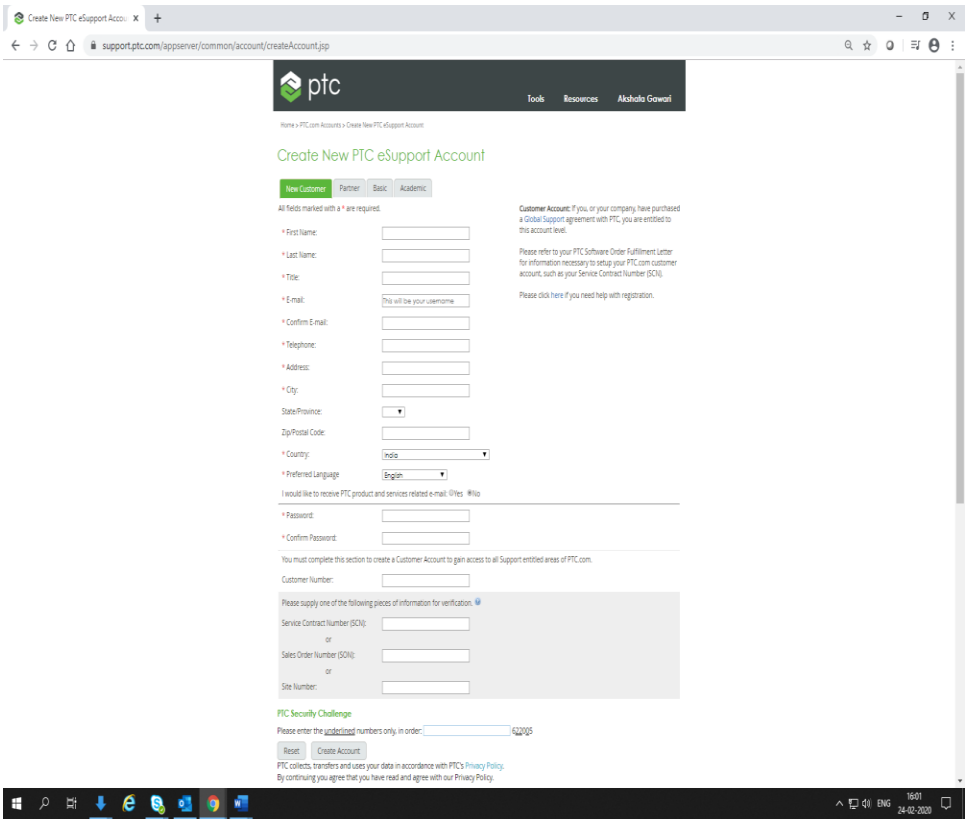
- Update Contact
- Inactivate contact
- Find Sales Representative
- Find tutorials, help topics and Product Specific Resources.

3.11 Web Site Map

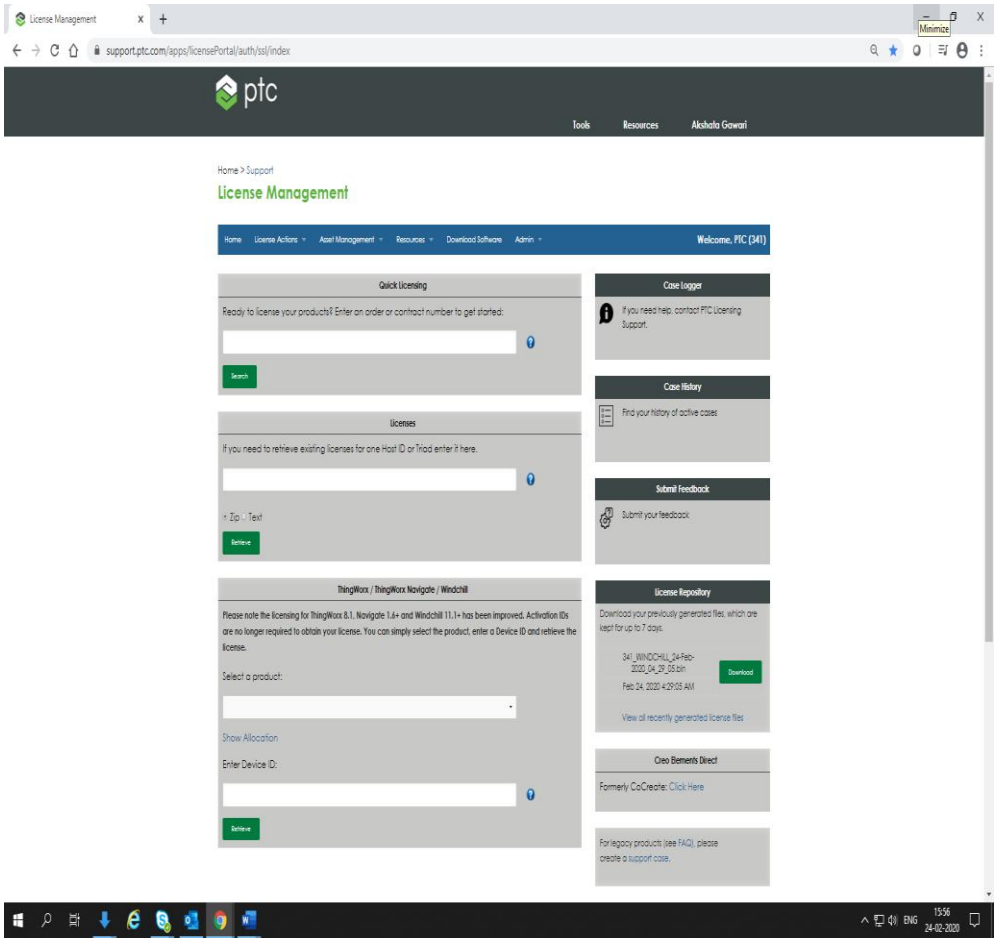


3.12 User Interface Design (Screens)

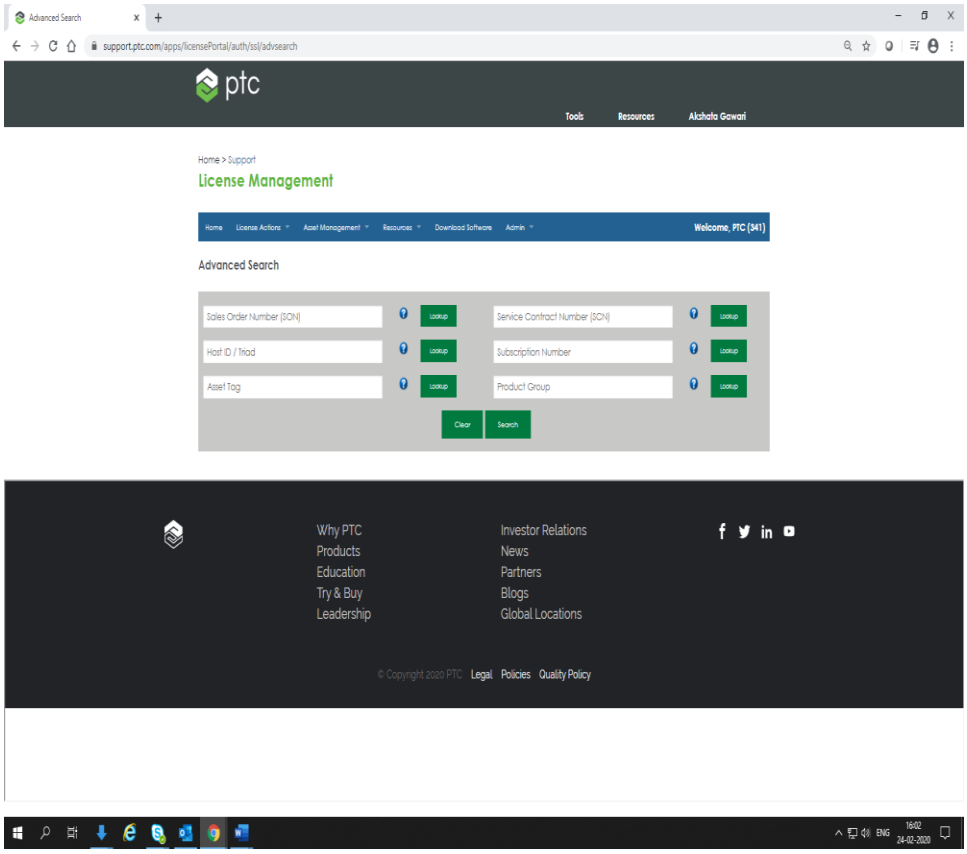
- **Create a new Customer Account.**



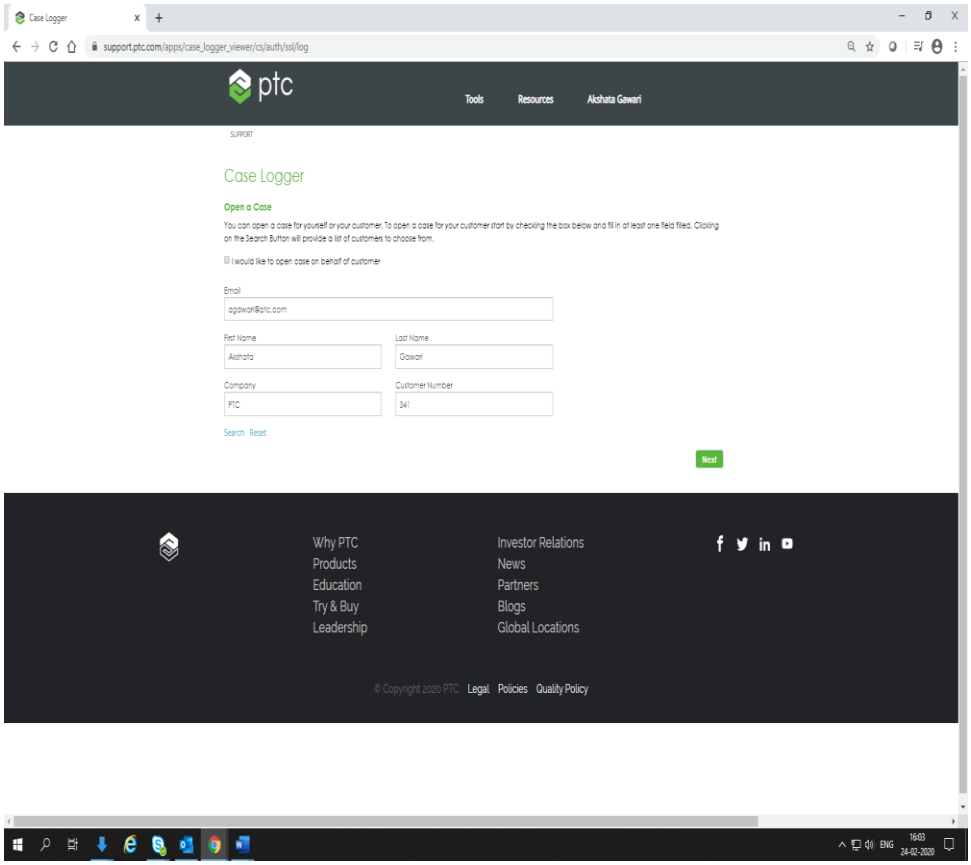
- **Home Page**


License Management
support.ptc.com/apps/licensePortal/auth/ssl/index
ptc
Tools
Resources
Akshata Gawari
Home > Support
License Management
Home
License Actions
Asset Management
Resources
Download Software
Admin
Welcome, PTC (341)
Quick Licensing
Ready to license your products? Enter an order or contract number to get started:
Search
Licenses
If you need to retrieve existing licenses for one Host ID or Triad enter it here.
Retrieve
ThingWorx / ThingWorx Navigate / Windchill
Please note the licensing for ThingWorx 8.1, Navigate 1.4+ and Windchill 11.1+ has been improved. Activation IDs are no longer required to obtain your license. You can simply select the product, enter a Device ID and retrieve the license.
Select a product:
Show Allocation
Enter Device ID:
Retrieve
Case Logger
If you need help, contact PTC Licensing Support.
Case History
Find your history of active cases
Submit Feedback
Submit your feedback
License Repository
Download your previously generated files, which are kept for up to 7 days.
Download
View all recently generated license files
Creo Elements Direct
Formerly CoCreate: Click Here
For legacy products (see FAQ), please create a support case.
ENG
15:56
24-02-2020

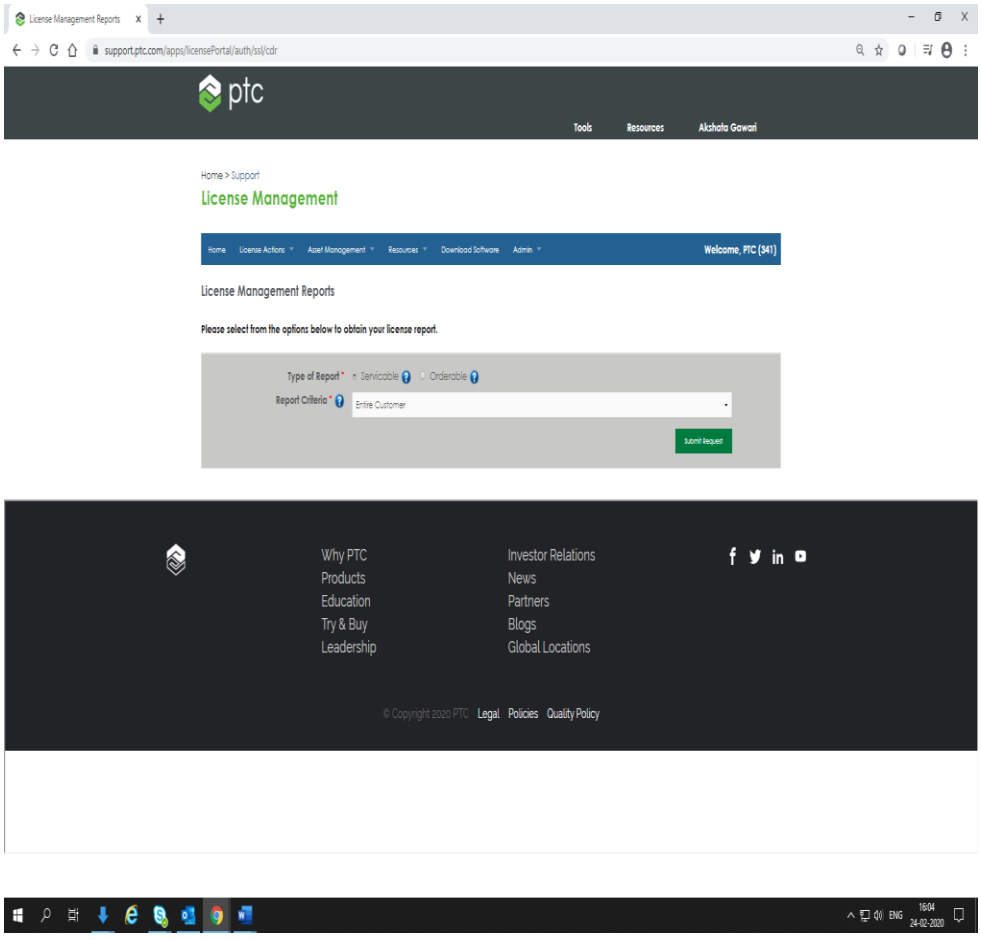
- **Advanced Search**



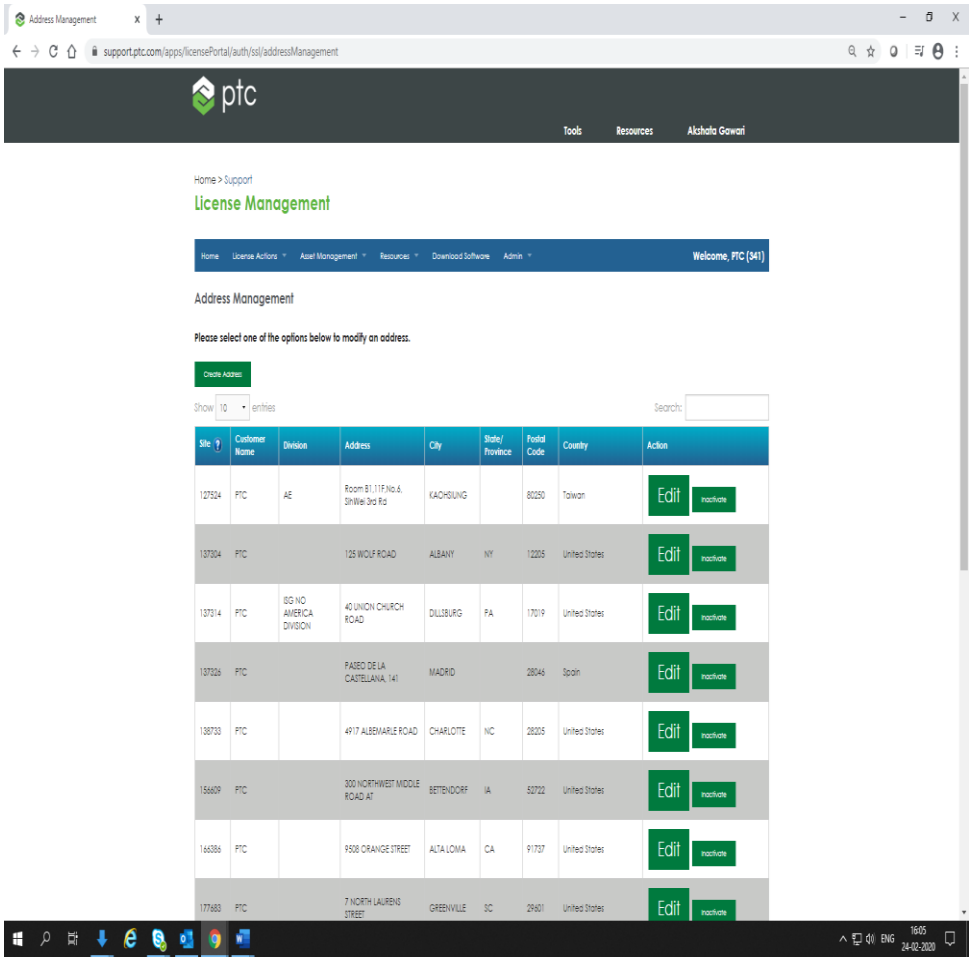
- **Case logger**


Case Logger
support.ptc.com/apps/case_logger_viewer/cs/auth/ssl/log
ptc
Tools
Resources
Akshata Gawari
SUPPORT
Case Logger
Open a Case
You can open a case for yourself or your customer. To open a case for your customer start by checking the box below and fill in at least one field filled. Clicking on the Search Button will provide a list of customers to choose from.
I would like to open case on behalf of customer
Email
agawari@ptc.com
First Name
Akshata
Last Name
Gawari
Company
PTC
Customer Number
341
Search Reset
Next
Why PTC
Products
Education
Try & Buy
Leadership
Investor Relations
News
Partners
Blogs
Global Locations
© Copyright 2020 PTC Legal Policies Quality Policy
ENG
1603
24-02-2020

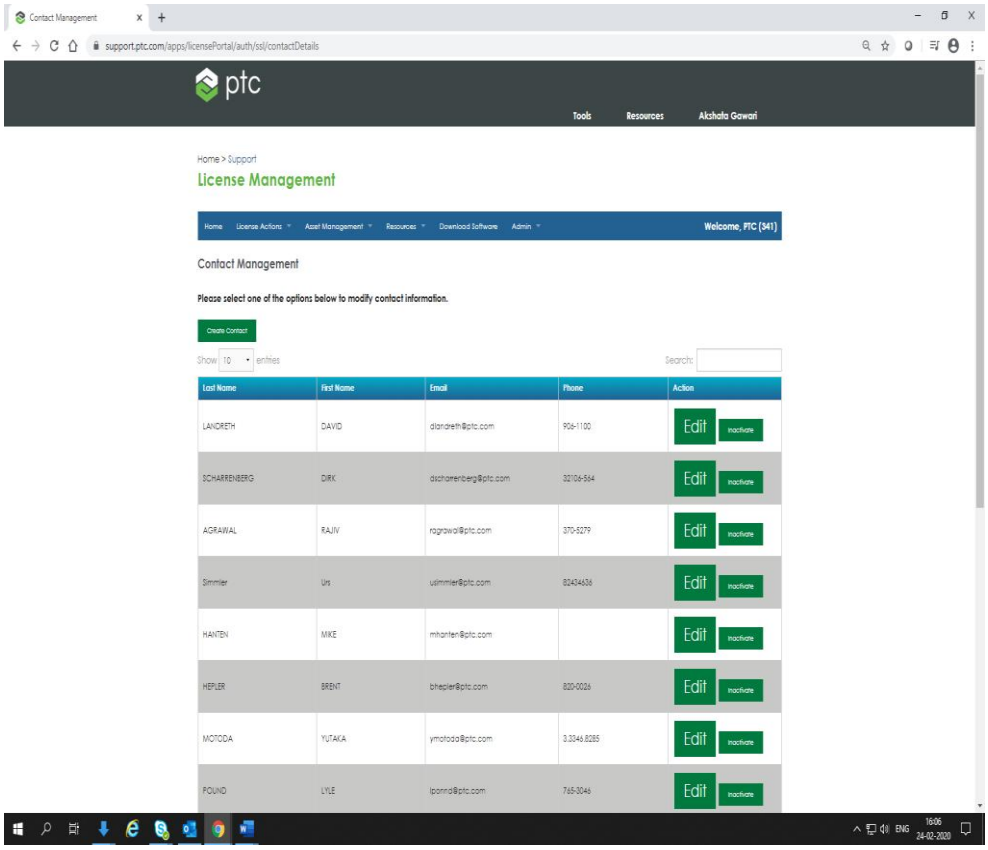
- **License Management Reports**



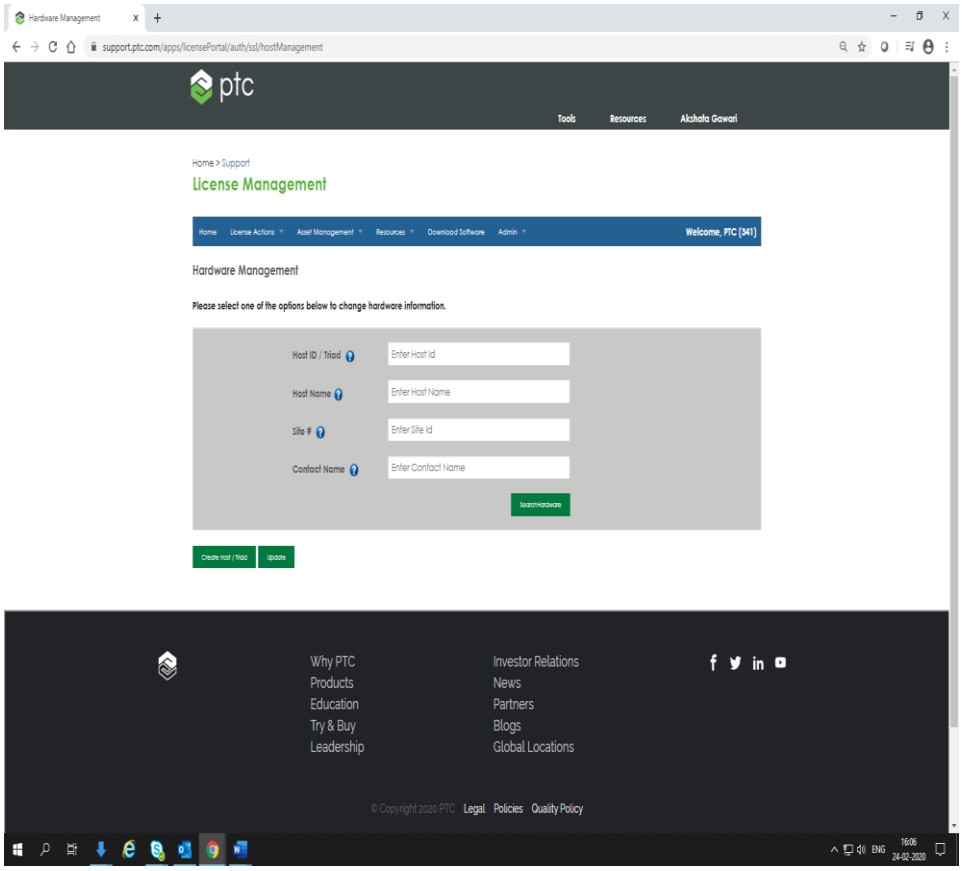
- **Address Management**



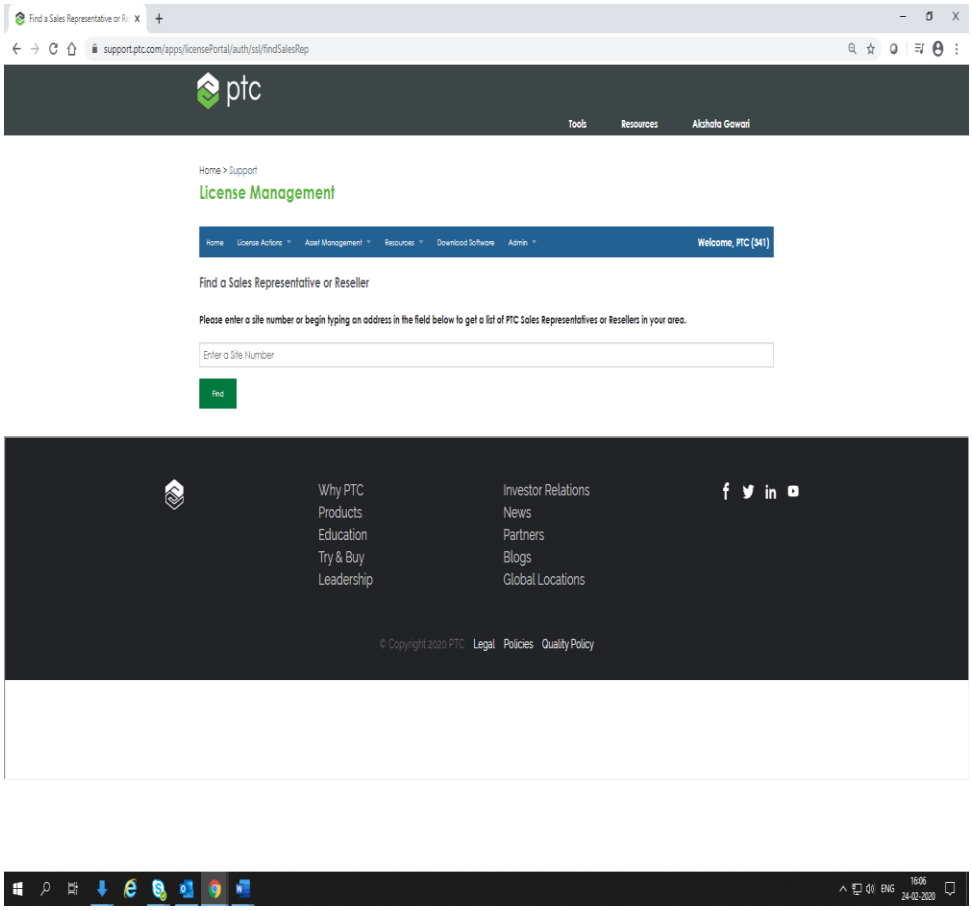
- **Contact Management**



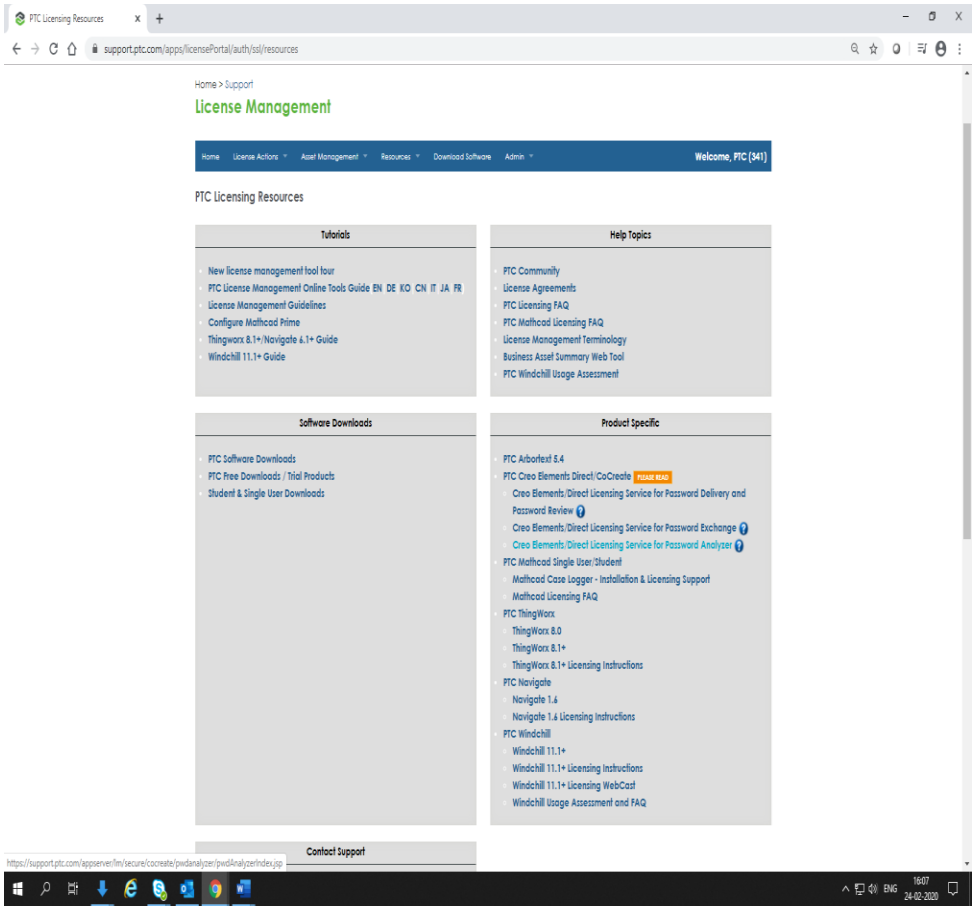
- **Hardware Management**



- **Find a Sales Representative or Reseller**



- **PTC Licensing Resources**



3.13 Data Dictionary

Sr. no	Field Name	Data Type	Description	Table Name
1.	Customer_number	Int(6)	Customer Numbet	Customer
2.	Customer_name	Varchar(10)	Customer Name	Customer
3.	Type	Varchar(10)	Type of Customer	Customer
4.	Sales_order_num ber	Int(6)	Sales order number	SON
5.	Customer_number	Varchar(10)	Customer Name	SON
6.	Subscription_num ber	Int(6)	Subscription number	Customer subscribtion
7.	Customer_number	Int(6)	Customer Name	Customer subscribtion
8.	Product_family_i d	Int(6)	Product family id	Product family
9.	consumer_number	Int(33)	Consumer number	Product family
10	Product_family	Varchar(10)	Product family name	Product family
11	Product_family_d escription	Varchar(50)	Product family description	Product family
12	Product_id	Int (10)	Product id	Product
13	Product_code	Int (10)	Product	Product

			code	
14	Product_name	Varchar(10)	Product name	Product
15	Product_description	Varchar(50)	Product description	Product
16	Product_version	Varchar(6)	Product version	Product
17	Quantity	Int(6)	Quantity of product	Product
18	Product_family_id	Int(6)	Product family id	Product
19	Customer_number	Int(6)	Customer number	Product
20	Product_lic_type_id	Int(6)	License type id	PRODUCT_LIC_TYPE
21	Product_family	Varchar(10)	Product family	PRODUCT_LIC_TYPE
22	Product_description	Varchar(50)	Product description	PRODUCT_LIC_TYPE
23	Product_version	Int(6)	Version of product	PRODUCT_LIC_TYPE
24	Product_lic_type	Varchar(10)	Type of license	PRODUCT_LIC_TYPE
25	License_number	int (10)	License number	License Table
26	Support_End_Date	date	End date	License Table
27	Status	Varchar(10)	Status	License Table

28	Customer_number	Int(6)	Consumer Id	License Table
29	Product_id	int (6)	Product id	License Table
30	AssetTag	Varchar(10)	Asset tag	Asset Tag
31	Customer_number	int (6)	Customer number	Asset Tag
32	Address_id	id (6)	Address id	Asset Tag
33	City	varchar(10)	Name of city	Asset Tag
34	State_province	varchar (33)	State	Asset Tag
35	Country	varchar (33)	country	Asset Tag
36	Product_description	varchar(50)	Product descrioption	Asset Tag
37	Version	int (6)	version	Asset Tag
38	Customer_number	Int(6)	customer number	Asset Tag
39	Contact_id	Int(6)	Contact id	Contacts
40	First_name	varchar (10)	First name	Contacts
41	Last_name	Varchar(10)	Last name	Contacts
42	Email	Varchar(10)	email	Contacts
43	Phone	Int (10)	phone	Contacts
44	Customer_number	Int (10)	Customer	Contacts

			number	
45	Host_id	Int(33)	Host id	Hardware
46	Host_name	Varchar(10)	Host name	Hardware
47	Installation_site	Varchar(10)	site	Hardware
48	Customer_number	int (6)	Customer name	Hardware
49	Contact_id	Int(6)	Contact id	Hardware

3.14Table Specifications

Master Tables :

1) Customer Table

Field Name	Data Type	Size	Constraints	Description
Customer_number	Int	6	Primary Key	Identifies Customer uniquely
Customer_name	Varchar2	50	Not Null	Name of customer
Type	Varchar2	50	Not Null	Type of customer

2) SON Table

Field Name	Data Type	Size	Constraints	Description
Sales_order_number	Int	6	Primary Key	Number associated with each purchase order
Customer_number	Int	6	Foreign key	References from Customer table

3) Customer Subscription Table

Field Name	Data Type	Size	Constraints	Description
Subscription_number	Int	6	Primary Key	Identifies Subscription uniquely
Customer_number	Int	6	Foreign key	References from Customer table

4) ProductFamily Table

Field Name	Data Type	Size	Constraints	Description
Product_family_id	Int	4	Primary Key	Identifies Product family uniquely
Product_family	Varchar2	50	Not Null	Product family code
Product_family_description	Varchar2	100	Not Null	Product family description
Customer_number	Int	6	Foreign key	References from Customer table

5) Product Table

Field Name	Data Type	Size	Constraints	Description
Product_id	Int	4	Primary Key	Identifies Product uniquely
Product_code	Varchar2	20	Not Null	Code associated to the product
Product_name	Varchar2	30	Not Null	Product name
Product _description	Varchar2	50	Not Null	Product description
Product_version	Varchar2	10	Not Null	Version of product
Quantity	Int	4	Not Null	Quantity of product
Product_family_id	Int	4	Foreign Key	References from ProductFamily
Customer_number	Int	6	Foreign key	References from Customer table

6) PRODUCT_LIC_TYPE Table

Field Name	Data Type	Size	Constraints	Description
Product_lic_type_id	Int	4	Primary Key	Identifies Product license type
Product_family	Varchar2	30	Not Null	Product name
Product _description	Varchar2	50	Not Null	Product description
Product_version	Varchar2	10	Not Null	Version of product
Product_lic_type	Varchar2	20	Not Null	Quantity of product

Transaction Tables:

1) License Table:

Field Name	Data Type	Size	Constraints	Description
License_number	Varchar2	50	Primary Key	Identifies License number uniquely
Support_End_Date	Date		Not Null	License Validity date
Status	Varchar2	10	Not Null	Status of license
Customer_number	Int		Foreign key	References from Customer table
Product_id	Int		Foreign Key	References from Product table

2) Asset Tag Table:

Field Name	Data Type	Size	Constraints	Description
AssetTag	Varchar2	10	Primary Key	AssetTag number
Customer_number	Int	6	Foreign key	References from Customer table

3) Address Table:

Field Name	Data Type	Size	Constraints	Description
Address_id	Int	5	Primary Key	Identifies Address uniquely
City	Varchar2	50	Not Null	City name
State_province	Varchar2	20	Not Null	State name
Country	Varchar2	20	Not Null	Country name
Product_description	Varchar2	50	Not Null	Product description
Version	Varchar2	10	Not Null	Version number
Customer_number	Int	6	Foreign key	References from Customer table

4) Contacts Table:

Field Name	Data Type	Size	Constraints	Description
Contact_id	Int	5	Primary Key	Identifies Contact uniquely
First_name	Varchar2	20	Not Null	First name
Last_name	Varchar2	30	Not Null	Last name
Email	Varchar2	30	Not Null	Email address
Phone	Varchar2	20	Not Null	Phone number
Customer_number	Int		Foreign key	References from Customer table

5) Hardware Table:

Field Name	Data Type	Size	Constraints	Description
Host_id	Varchar2	20	Primary Key	Identifies Host uniquely
Host_name	Varchar2	20	Not Null	Host name
Installation_site	Varchar2	50	Not Null	Site of Installation
Customer_number	Int	6	Foreign key	References from Customer table
Contact_id	Int	5	Foreign key	References from Contact table

3.15 Test Procedures and Implementation

1. Unit Testing

Unit testing concentrates verification on the smallest element of the program – the module. Using the detailed design description important control paths are tested to establish errors within the bounds of the module.

In this system each sub module is tested individually as per the unit testing such as campaign, lead, contact etc are tested individually. Their input field validations are tested.

2. Integration testing

Once all the individual units have been tested there is a need to test how they were put together to ensure no data is lost across interface, one module does not have an adverse impact on another, and a function is not performed correctly.

After unit testing each and every sub module is tested with integrating each other.

System testing for the current system:

In this level of testing we are testing the system as a whole after integrating all the main modules of the project. We are testing whether system is giving correct output or not. All the modules were integrated and the flow of information among different modules was checked. It was also checked that whether the flow of data is as per the requirements or not. It was also checked that whether any particular module is non-functioning or not i.e. once the integration is over each and every module is functioning in its entirety or not.

In this level of testing we tested the following: -

- Whether all the forms are properly working or not.
- Whether all the forms are properly linked or not.
- Whether all the images are properly displayed or not.
- Whether data retrieval is proper or not.

Specific knowledge of the application's code/internal structure and programming knowledge in general is not

required. The tester is aware of *what* the software is supposed to do but is not aware of *how* it does it. For instance, the tester is aware that a particular input returns a certain, invariable output but is not aware of *how* the software produces the output in the first place.

Test Cases

Test cases are built around specifications and requirements, i.e., what the application is supposed to do. Test cases are generally derived from external descriptions of the software, including specifications, requirements and design parameters. Although the tests used are primarily *functional* in nature, *non-functional* tests may also be used. The test designer selects both valid and invalid inputs and determines the correct output without any knowledge of the test object's internal structure.

Test Design Techniques

Typical black-box test design techniques include:

- Decision table testing
- All-pairs testing
- State transition Analysis
- Equivalence partitioning
- Boundary value analysis
- Cause–effect graph
- Error guessing

Advantages

- Efficient when used on large systems.
- Since the tester and developer are independent of each other, testing is balanced and unprejudiced.
- Tester can be non-technical.
- There is no need for the tester to have detailed functional knowledge of system.

- Tests will be done from an end user's point of view, because the end user should accept the system. (This testing technique is sometimes also called Acceptance testing.)
- Testing helps to identify vagueness and contradictions in functional specifications.
- Test cases can be designed as soon as the functional specifications are complete.

Disadvantages

- Test cases are challenging to design without having clear functional specifications.
- It is difficult to identify tricky inputs if the test cases are not developed based on specifications.
- It is difficult to identify all possible inputs in limited testing time. As a result, writing test cases may be slow and difficult.
- There are chances of having unidentified paths during the testing proces

Test Case:

1) User Login:

Test Case Id	Test Case Description	Input Steps	Expected Result	Test Case Status
TC 1	To check user enter a wrong username	Open login page enter login name.e.g. User Name=" " Password=" "	Proper message should be displayed as "Sorry, you did not provide a username and password. Please try again.".	Failed
TC 2	To check user enter a wrong username	Open login page enter login name.e.g. User	Proper message should be displayed as "Sorry, the account xyz does not exist in our records.".	Failed

		Name=xyz Password=xyz		
TC 3	To check user enter a wrong username	Open login page enter login name.e.g. User Name=”raj” Password=”123%Computer”.	Display message as “Login Successful”.	Passed

2) Advanced Search:

Test Case Id	**Test Case Description**	**Input Steps**	**Expected Result**	**Test Case Status**
TC 1	To check user left SON, SCN, Host ID, Subscription Number, Asset Tag and Product Group field blank	If SON, SCN, Host ID, Subscription Number, Asset Tag and Product Group is left blank by user and clicks on Search	No records should be displayed.	Failed
TC 2	To check user enter any alphabet in SON field	If SON = '123abc' and click on Search	No records should be displayed.	Failed
TC 3	To check user	If SON =	Licenses should be	Passed

	enter a number in SON field	'1234567' and click on Search	displayed.	
TC 4	To check user enter any alphabet in SCN field	If SCN = '123abc' and click on Search	No records should be displayed.	Failed
TC 5	To check user enter a number in SCN field	If SCN = '1234567' and click on Search	Licenses should be displayed.	Passed
TC 6	To check user enter any alphabet in Host ID field	If Host ID = '123abc' and click on Search	No records should be displayed.	Failed
TC 7	To check user enter a series of 6 two-digit numbers in	If Host ID = '00-02-3F-6C-00-A2' and click on Search	Licenses should be displayed.	Passed

	Host ID field			
TC 8	To check user enter any alphabet in Subscription Number field	If Subscription Number = ‘123abc’ and click on Search	No records should be displayed.	Failed
TC 9	To check user enter a number in Subscription Number field	If Subscription Number = ‘178F39DA-0D3C-41B7-8F22-2B1C2709C403 and click on Search	Licenses should be displayed.	Passed
TC 10	To check user enter any alphabet in	If Asset Tag = ‘123abc’ and click on Search	No records should be displayed.	Failed

	Asset Tag field			
TC 11	To check user enter a number in Asset Tag field	If Asset Tag = ‘12345678’ and click on Search	Licenses should be displayed.	Passed
TC 12	To check user enter any alphabet in Product Group field	If Product Group = ‘123abc’ and click on Search	No records should be displayed.	Failed
TC 13	To check user enter a number in Product Group field	If Product Group = ‘1234567’ and click on Search	Licenses should be displayed.	Passed

3) Address Management:

Test Case Id	Test Case Description	Input Steps	Expected Result	Test Case Status
TC 1	To check user left Address, City, State, Postal code, Country fields blank	If the user left Address, City, State, Postal code, Country fields blank and click on Create Address	Proper message should be for each field as "Field Name is mandatory"	Failed
TC 2	To check user enter a symbol in Address Field	If Address = "Weikfield@Vimangar 2" and click on Create/Update Address	Proper message should be for each field as "Only Alphanumeric characters are allowed"	Failed

TC 3	To check user enter alphanumeric characters in Address Field	If Address = "Weikfield Vimangar 2" and click on Create/Update Address	Proper message should be displayed "A case has been created to let you track status of your request. Your case number is: 12345678"	Passed
TC 4	To check user enter any digit or symbol in City Field	If City = "Pune@2" and click on Create/Update Address	Proper message should be for each field as "Only Letters are allowed"	Failed
TC 5	To check user enter only letters in City Field	If City = "Pune" and click on Create/Update Address	Proper message should be displayed "A case has been created to let you track status of your request. Your case number is: 12345678"	Passed

TC 6	To check user enter any digit or symbol in State/Province Field	If State/Province = “Maharashtra@2” and click on Create/Update Address	Proper message should be for each field as “Only Letters are allowed”	Failed
TC 7	To check user enter only letters in State/Province Field	If State/Province = “Maharashtra” and click on Create/Update Address	Proper message should be displayed “A case has been created to let you track status of your request. Your case number is: 12345678”	Passed
TC 8	To check user enter any digit or symbol in Country Field	If Country = “India@2” and click on Create/Update Address	Proper message should be for each field as “Only Letters are allowed”	Failed

TC 9	To check user enter only letters in Country Field	If Country = “Maharashtra” and click on Create/Update Address	Proper message should be displayed “A case has been created to let you track status of your request. Your case number is: 12345678”	Passed

CHAPTER 4:

USER MANUAL

4.1 USER MANUAL

Getting Started

You will need access to the internet and a web browser like Chrome, Firefox, Internet Explorer 10+, Safari 5.1+, Opera.

User:

Open your web browser and type link provided to User i.e. support.ptc.com

Step 1:

You can register as a new customer.

Step 2:

You can ask for login. For login enter valid user name and password.

Step 3:

After login you can Click on Manage Licenses.

Step 4:

You can perform several License Actions.

Step 5:

You can search a license by various fields.

Step 6:

You can log a case if you are facing certain issue.

Step 7:

You can generate License Report.

Step 8:

You can perform Address Management.

Step 9:

You can perform Contact Management.

Step 10:

You can perform Hardware Management.

Step 11:

You can find a Sales Representative or Reseller.

Step 12:

You can use PTC Licensing Resources for Help.

Step 13:

You can also submit your feedback.

Step 14:

Log out successfully.

4.2 OPERATION MANUAL/MENU EXPLANATION

1) **License Actions**

a) Advanced Search

- User can search the available and installed license related to the product he purchased, by any one of the below fields:

  - Sales Order Number (SON)

  - Service Contract Number (SCN)

  - Host ID/ Triad

  - Subscription Number

  - Asset Tag

  - Production Group

b) Case Logger

- If the user is having any query related to license management he/she can open a case which will be handled by Business team.

c) License Management Report

- License Management report can be generated consisting all the details of base license and modules in it.

2) Asset Management

a) Address Management

- User can create a new address
- Update the existing address
- Deactivate the address if it no more exists

b) Contact Management

- User can create new contact
- Modify the existing contact
- Inactivate the contact if no more in use

c) Hardware Management

- User can create Host / Triad.
- Update the existing hardware.
- Inactivate the hardware.

3) Resources

a) Find a Sales Representative or Reseller

User can find the sales representative or reseller located near him/her, by providing Site number

b) PTC Licensing Resources

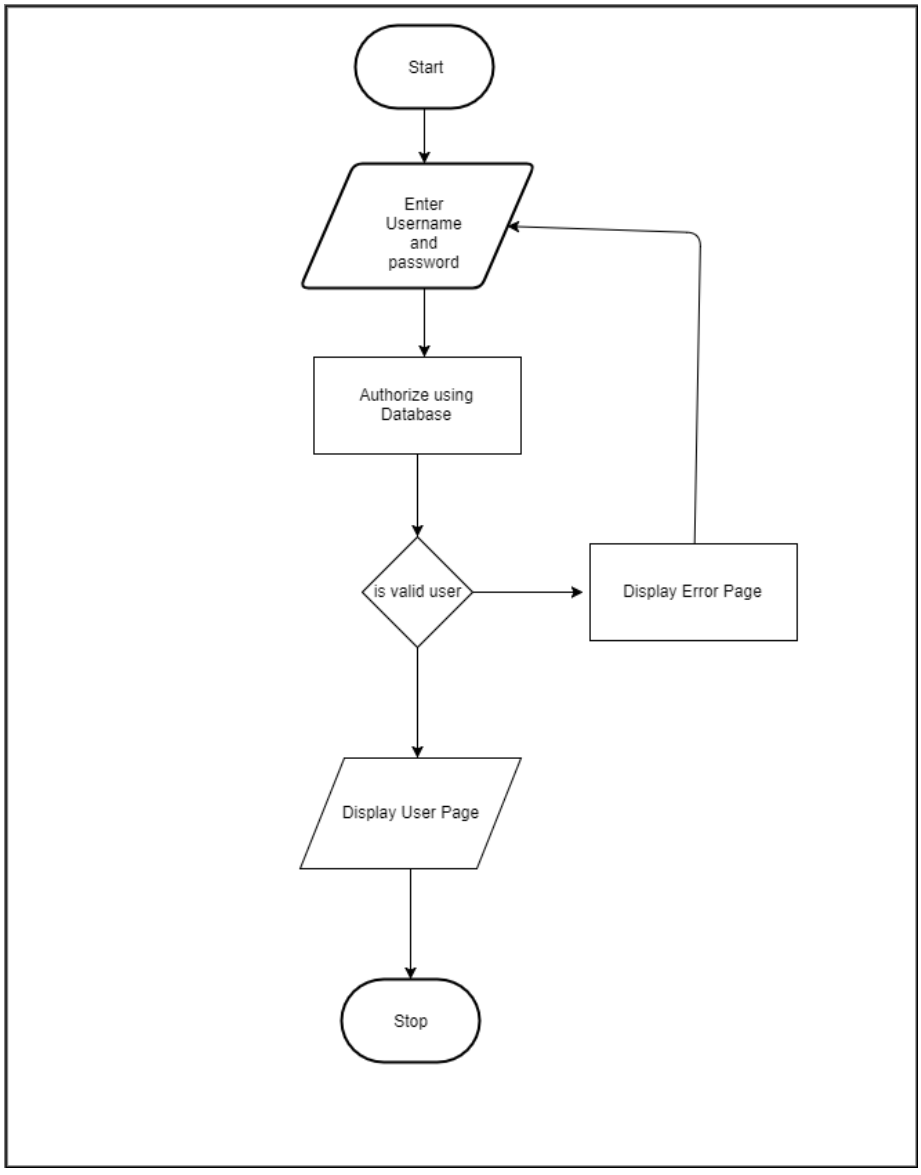
PTC licensing resources such as tutorials, help topics, software downloads, etc. is provided for user guidance and support.

4.3 Program Specifications / Flow Charts:

1. User Authentication (Login)

Module Name		Authentication and Authorization
Program Name		Login to the System
Purpose		Check Authentication for User
Event		Click on “Login” Button
Input	Constraint	Description
Login Details (Emails and password)	The Required field must not be null and input data should be valid.	Login details get checked against database.
Output	The Login details get checked against database to check the authentication of user and user gets notification message of successfully login.	

FLOW CHART


Start
Enter Username and password
Authorize using Database
is valid user
Display Error Page
Display User Page
Stop

Drawbacks and Limitations

Drawbacks and Limitations

- Whenever a license file is generated the control is handover to JMS (Java Message Services),

  so we cannot predict the execution of JMS as they are the asynchronous calls. Hence, we cannot determine the exact time to receive a license file.

  It requires at max 10 minutes.
- License portal uses a lot of procedures and function calls to provide different functionality such as generating license reports, so the performance of the system is bit slow.
- Not all products are being licensed through portal, currently products belonging to the product family CoCreate, Flex, Integrity are licensed.

Proposed Enhancement

Proposed Enhancement

- In future we are planning to include other PTC products licensing through the portal.
- License portal also integrates with other services that helps in retrieving licenses of the third party products.
- We are planning to integrate such more services in the portal.

CONCLUSION

CONCLUSION

- This project proved good for me as it provided practical knowledge of not only Spring Framework, but also about all handling procedure related with **"License Management".**
- It also provides knowledge about the latest technology used in developing web enabled application and client server technology that will be great demand in future.
- The entire project has been developed and deployed as per the requirement stated by the PTC Business Team.
- This will provide better opportunities and guidance in future in developing projects independently.
- Our company is planning to integrate in future and do it as an enhancement.

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BIBILOGRAPHY

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  - www.oracle.com

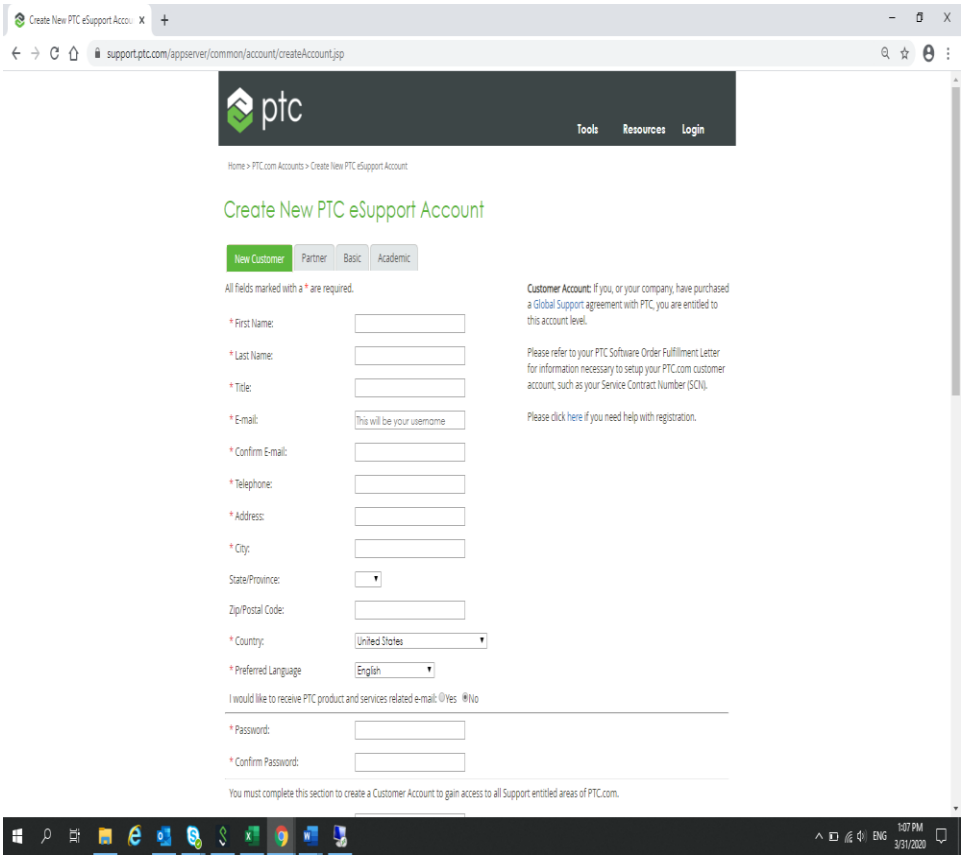
- Reference Books
  - Getting Started with Spring Framework
  - Spring MVC: Beginner's Guide

- Spring in Action
- Spring 4 for Developing Enterprise Applications

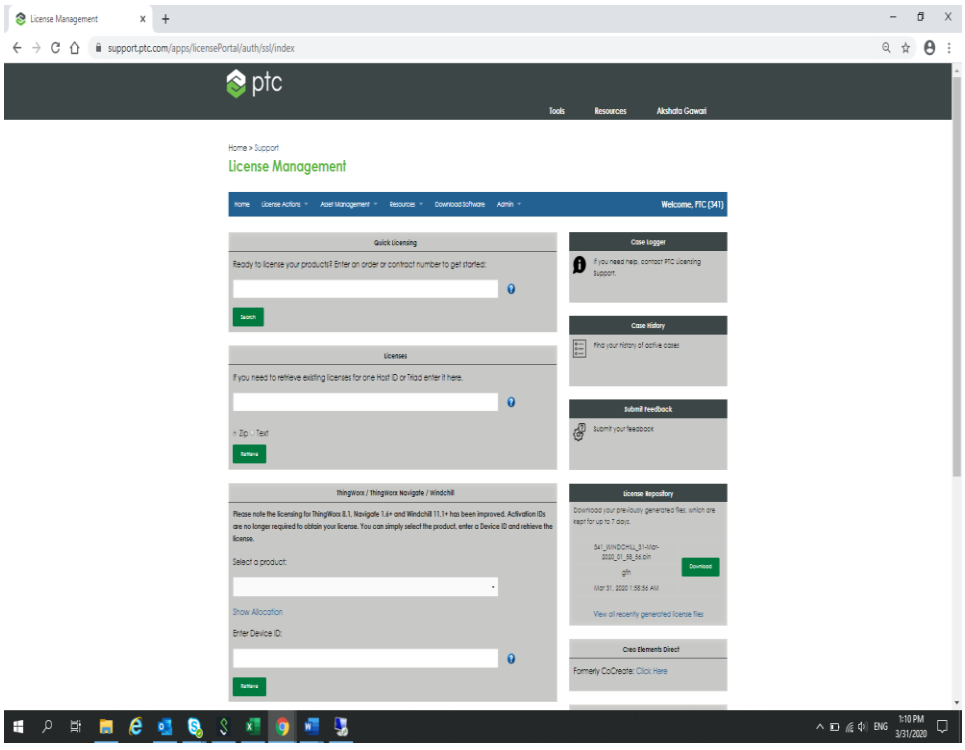
ANNEXURE 1: USER INTERFACE

SCREENS

- **Create a new Customer Account**

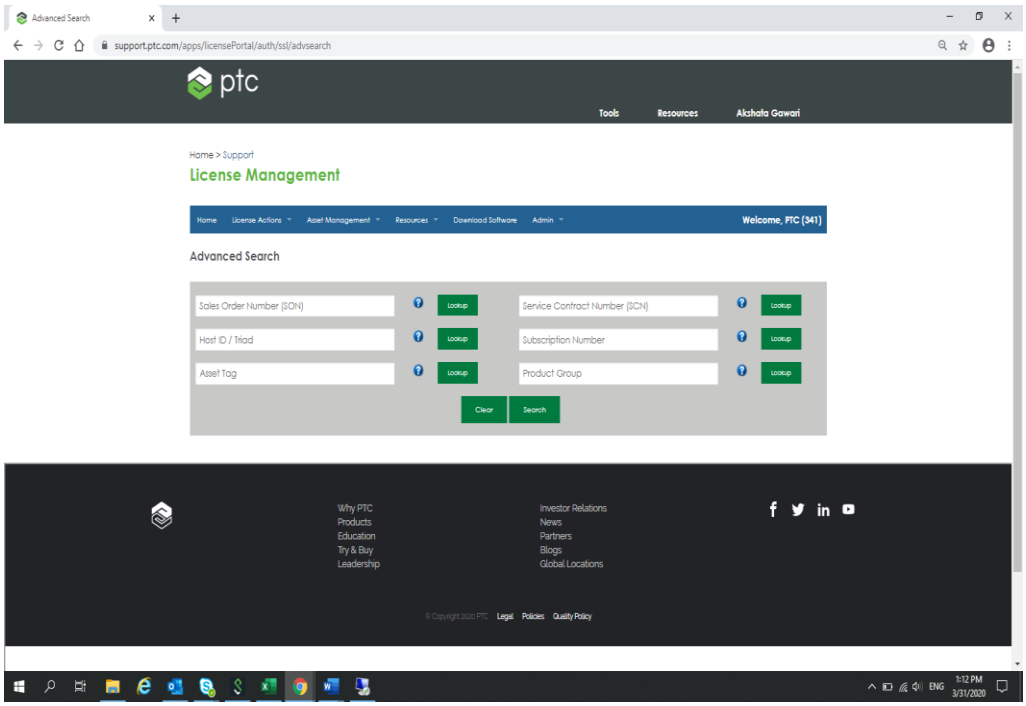


- Home page


License Management
support.ptc.com/apps/licensePortal/auth/ssl/index
ptc
Tools
Resources
Akshata Gawai
Home > Support
License Management
Home
License Actions
Asset Management
Resources
Download Software
Admin
Welcome, PTC (341)
Quick Licensing
Ready to license your products? Enter an order or contract number to get started:
Search
Licenses
If you need to retrieve existing licenses for one Host ID or Triad enter it here.
Retrieve
ThingWorx / ThingWorx Navigate / Windchill
Please note the licensing for ThingWorx 8.1, Navigate 1.6+ and Windchill 11.1+ has been improved. Activation IDs are no longer required to obtain your license. You can simply select the product, enter a Device ID and retrieve the license.
Select a product:
Show Allocation
Enter Device ID:
Retrieve
Case Logger
If you need help, contact PTC Licensing Support.
Case History
Find your history of active cases
Submit Feedback
Submit your feedback
License Repository
Download your previously generated files, which are kept for up to 7 days.
Download
View all recently generated license files
Creo Elements Direct
Formerly CoCreate: Click Here
ENG
1:10 PM
3/31/2020

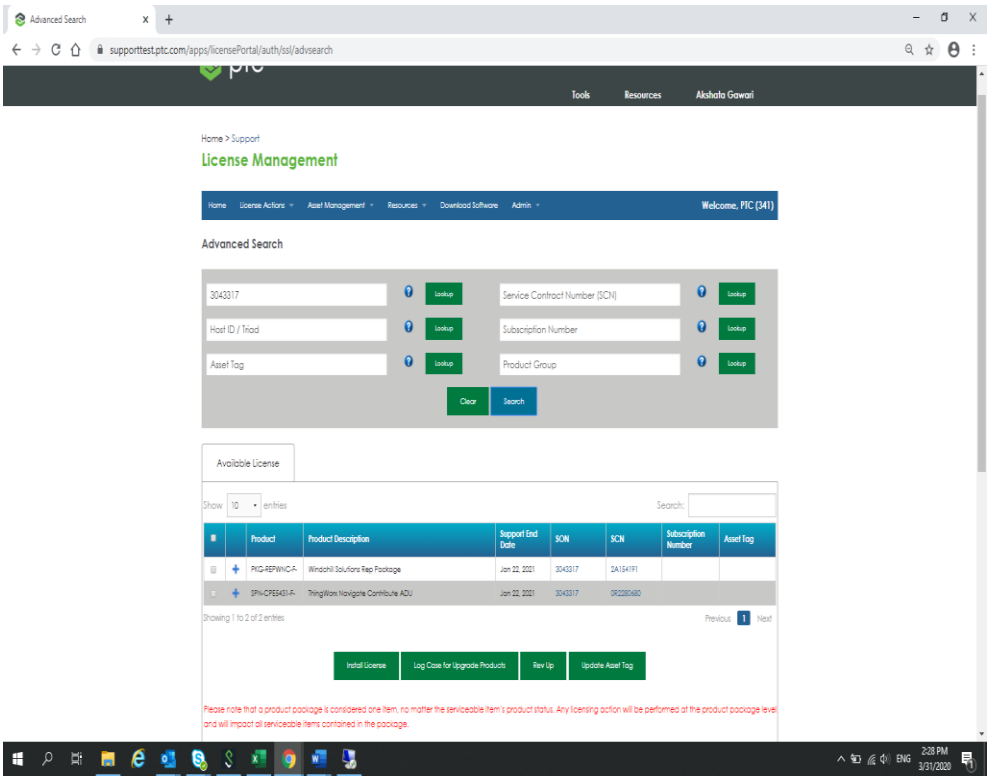
- Advance Search :

1) Install License

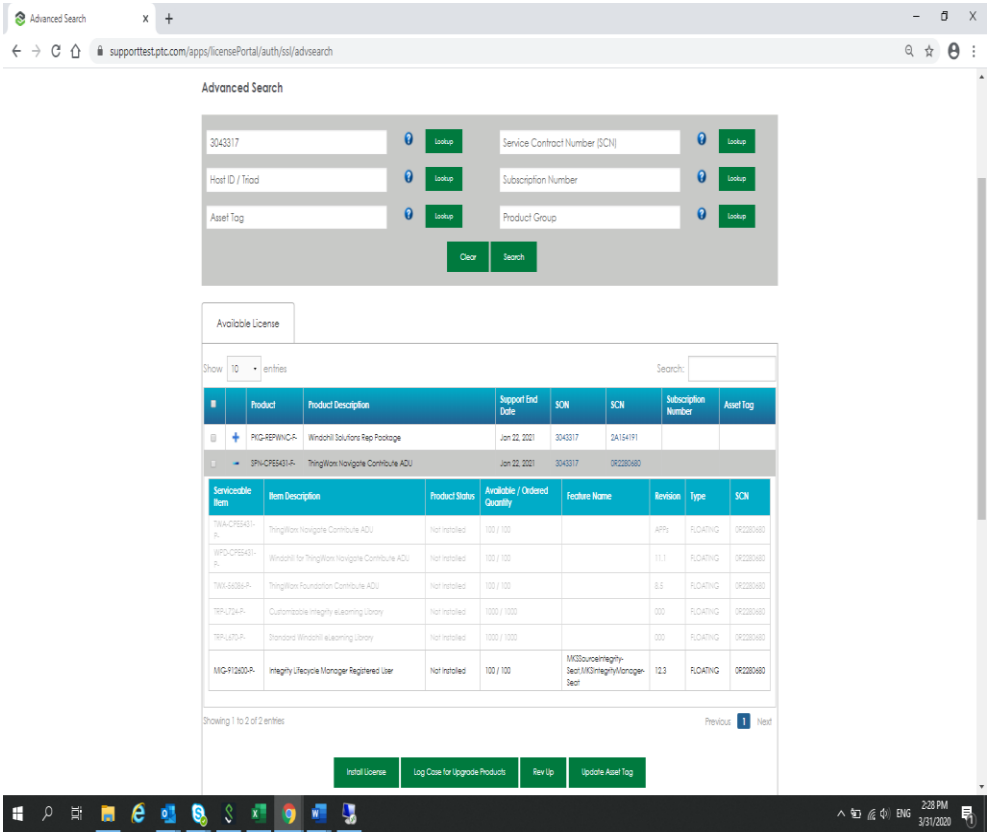


User can search by any of the field to get Available/Installed Licenses.
On clicking on Search, you will get the Available and Installed Licenses

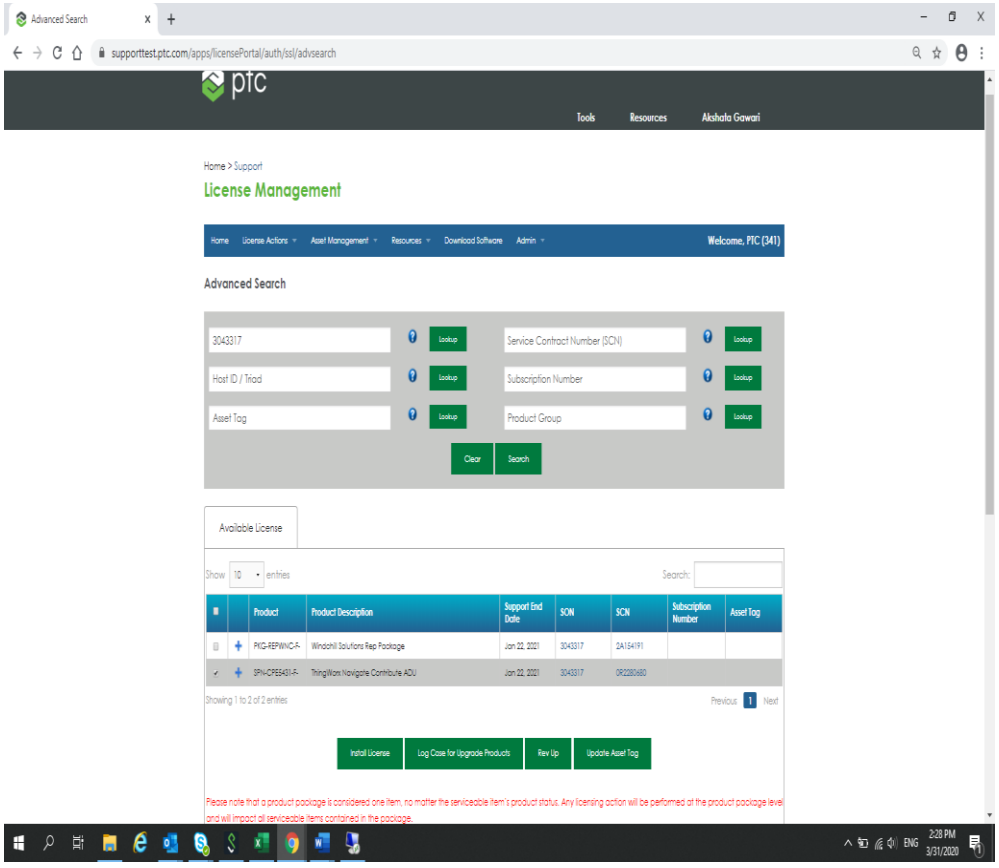
List of Available licenses:



Clicking on + in available license list you will get sub products.



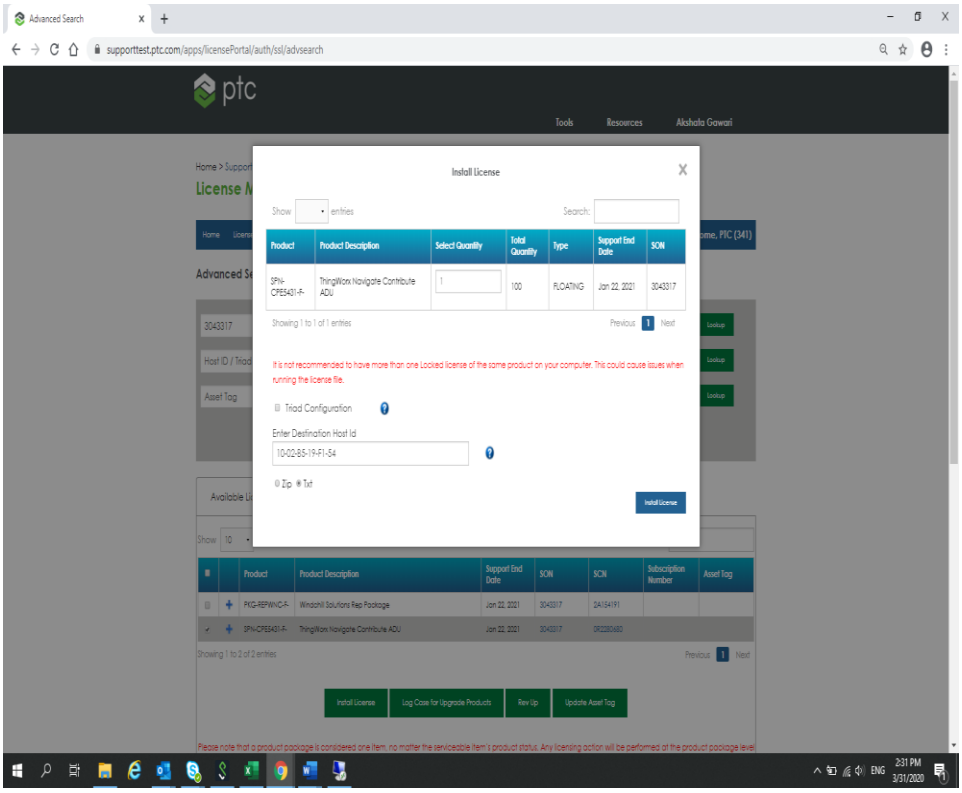
On selecting the product and clicking on install License button



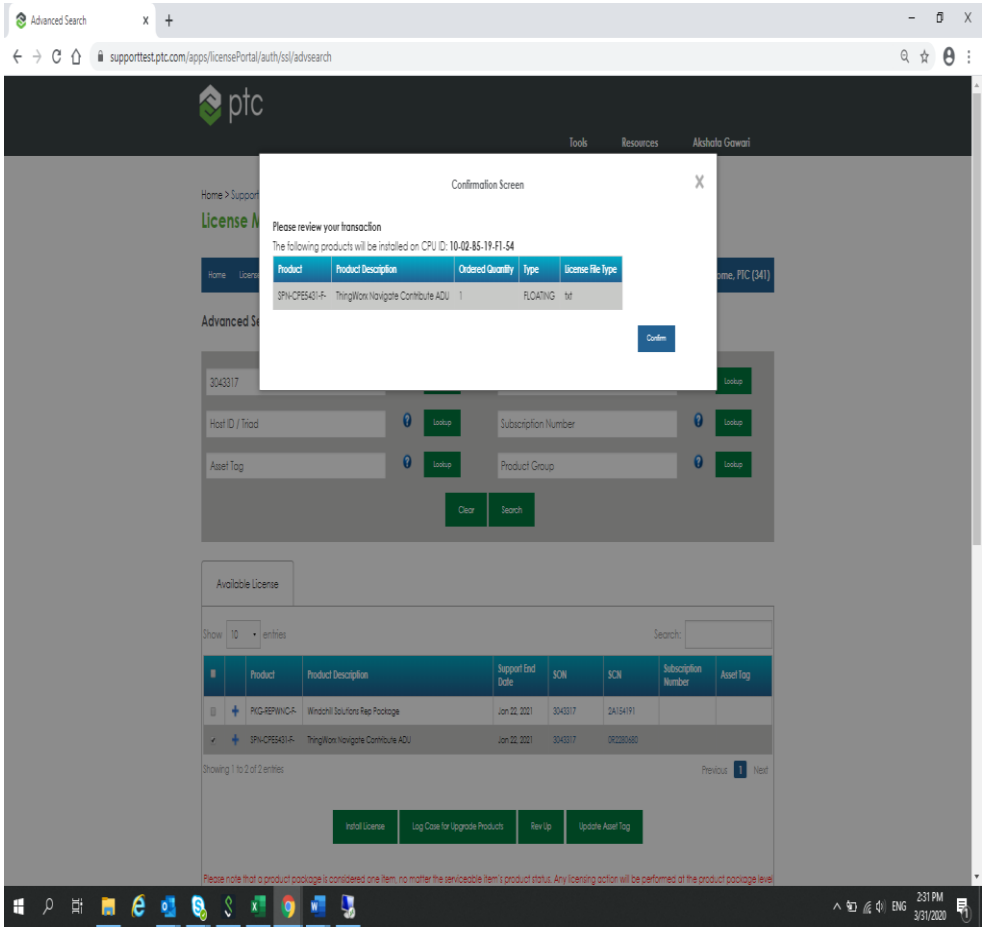
A popup occurs –

Enter quantity less than total quantity.

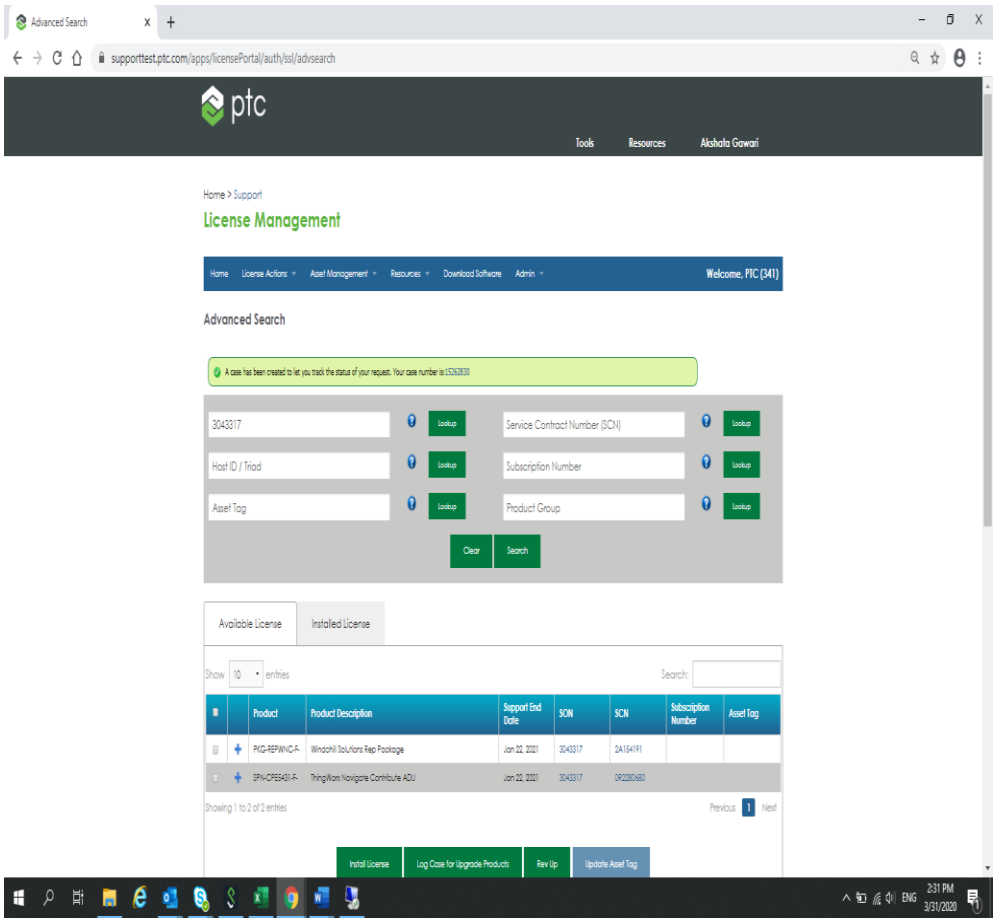
Provide Host Id to install license on and select Zip or text radio button (in which type you want license File).



After clicking on install License confirmation box appears.

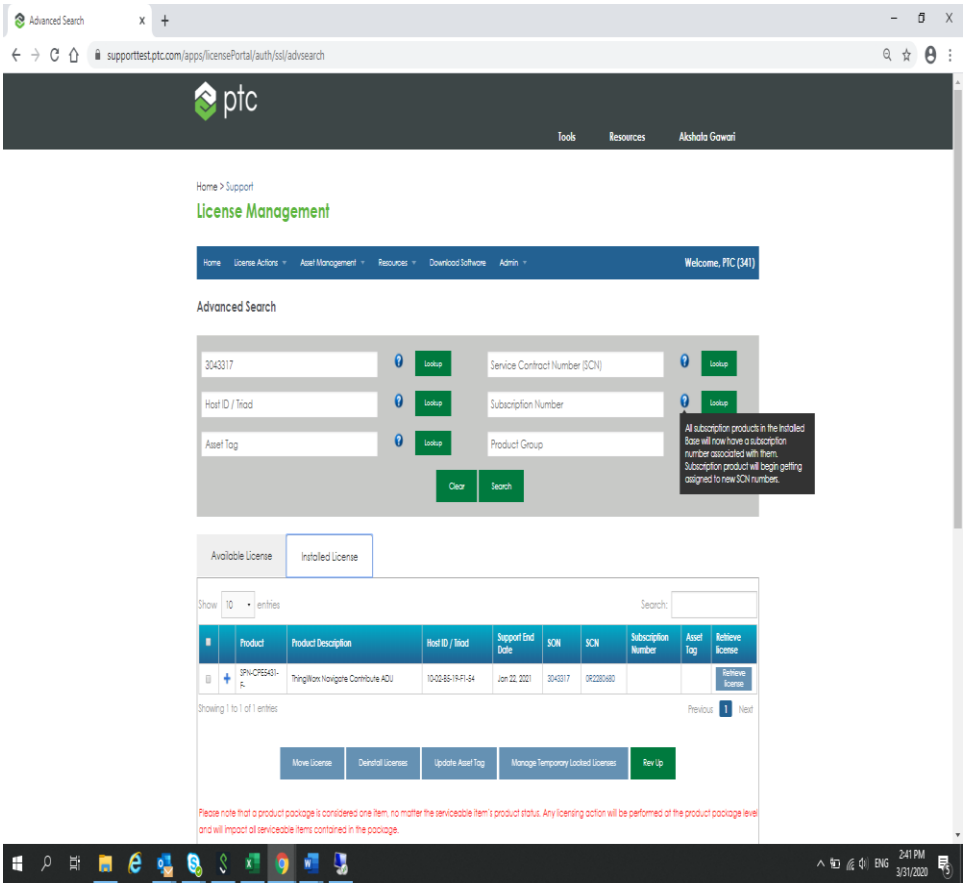


We will get one message at the top of case creation of successful transaction with case number:

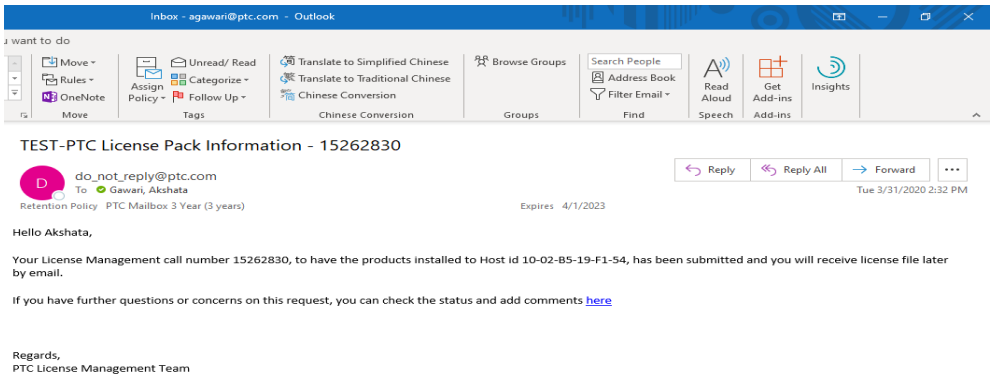


You can verify the changes:

In Available License tab



License mail:



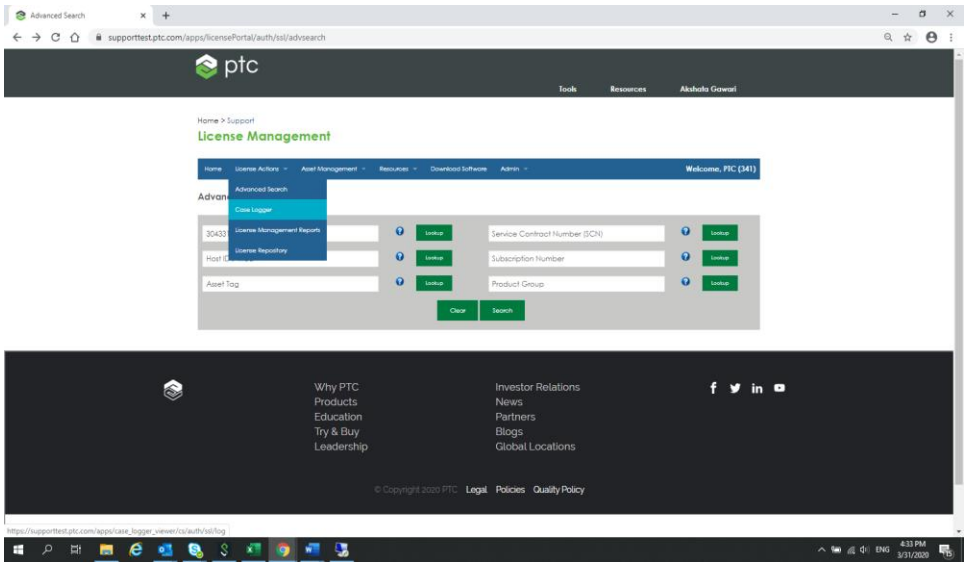
License File Contents:

```
#-------------------------------------------------------------
----------------
#License Pack for Request ID 1726568     31-Mar-2020
#This License pack was requested by: PTC Host ID 10-02-B5-
19-F1-54
#-------------------------------------------------------------
----------------


#                  PTC License Pack
#          IMPORTANT SOFTWARE LICENSING INFORMATION
#               Retain this for your records.

#Customer         :PTC
#Site             :PTC
#                 :
#                 :140 KENDRICK STREET
#                 :
#                 :NEEDHAM, MA 02494
#                 :US

#                 :,


#Contact          :SANNY FANG
#Email            :SFANG@PTC.COM

#Customer Number :341
#Install Site No :234366

#************************************* Summary Table
*****************************************************
#                        PTC Host ID 10-02-B5-19-F1-54
#FeatureName             Qty        Product
Release   Type    Expiration     Contract
#*************************************************************
*************************************************
#259                       1     Arbortext IsoDraw 3D
Extensions          7.3     Ext     16-oct-2021 2A154191
#260                       1     Arbortext IsoCompose
7.3     Ext     16-oct-2021 2A154191
#0                         1     NOTEBOOK
Creo 7.0 Ext     16-oct-2021 2A154191
#-------------------------------------------------------------
----------------
#START: License File for HOST ID 10-02-B5-19-F1-54
#-------------------------------------------------------------
----------------
SERVER __HOSTNAME__ PTC_HOSTID=10-02-B5-19-F1-54 7788
DAEMON ptc_d __PTCD_PATH__
#################### Extension ############################
# Serviceable = Arbortext IsoDraw Rep Options
# Feature Name = 259
# Feature Version = 7.3
```

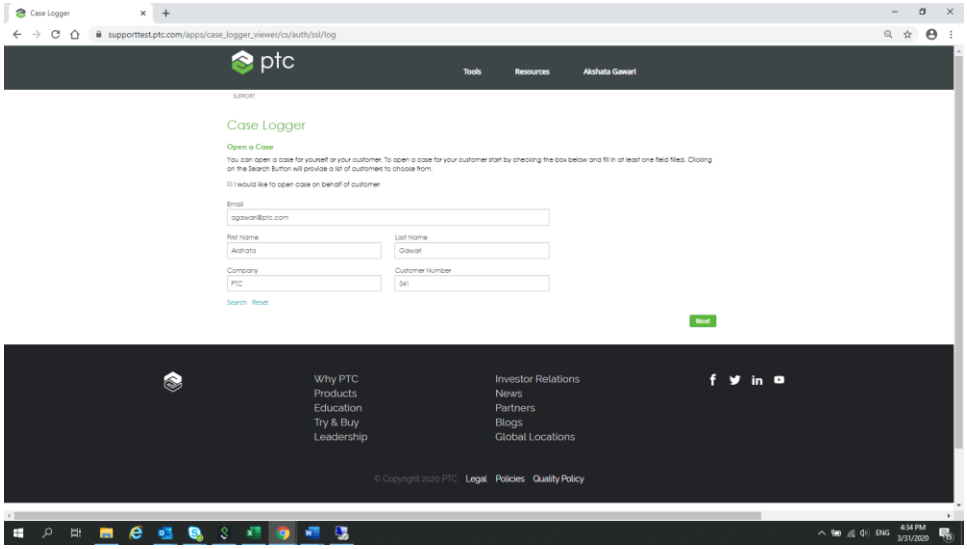
```
# Number of Copies = 1
# Expiration Date = 16-oct-2021
# Module = Arbortext IsoDraw 3D Extensions
INCREMENT 259 ptc_d 7.3 16-oct-2021 1 D030A040C6DB1C8C2AB0
\
      VENDOR_STRING="VSVER=2.0 STARTUP LO=() BORROW" \
      SUPERSEDE ISSUER=PTC ISSUED=31-mar-2020 BORROW=4320 \
      NOTICE="PTC, 234366" SIGN2="0498 CE53 54CD 995C C43B
\
      418E 4418 4946 ABBF B148 8DF7 8B46 DFC3 CEF5 709E \
      141A CE5C 28B9 38E1 390F 3031 64CE 4228 921A 9F6C \
      0877 6DB7 72E3 92A2 D6FE"
#END: License File for HOST ID 10-02-B5-19-F1-54

#-------------------------------------------------------------
----------------

#-------------------------------------------------------------
----------------
#END OF THE LICENSE PACK FOR REQUEST ID 1726568
#-------------------------------------------------------------
----------------
```

2. Case logger

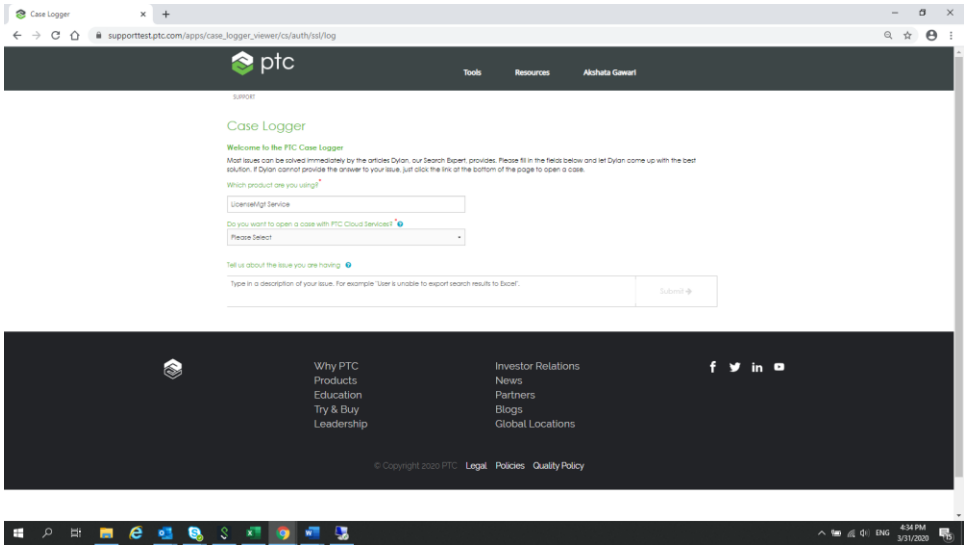
Click License Actions > Case Logger

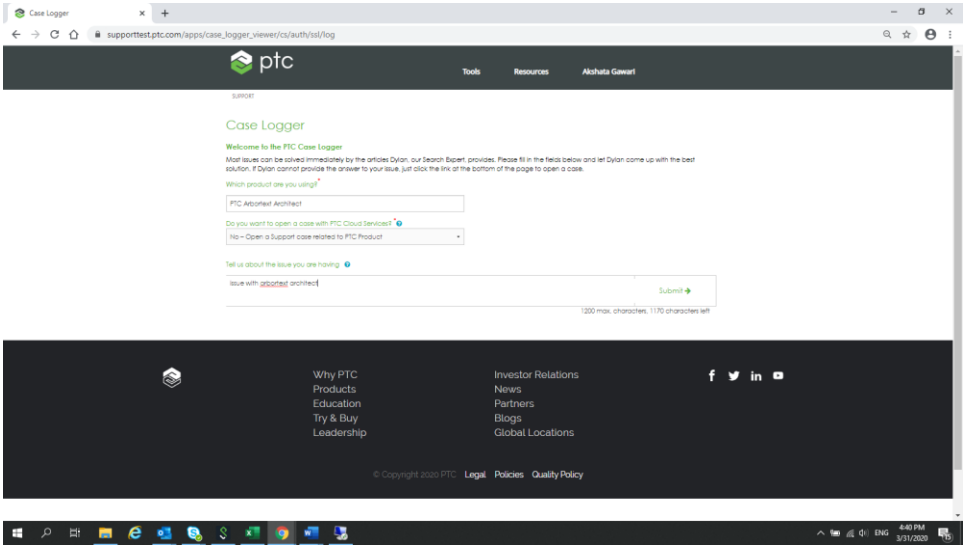


A form is displayed, fill user details.



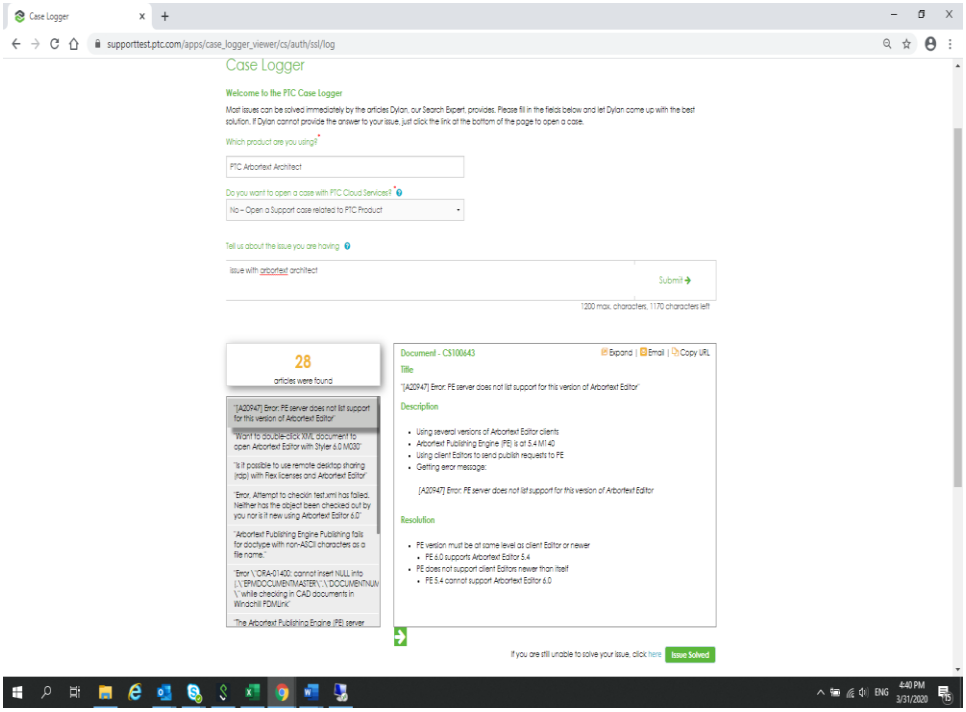
On clicking next.





Articles are displayed related to your issue.

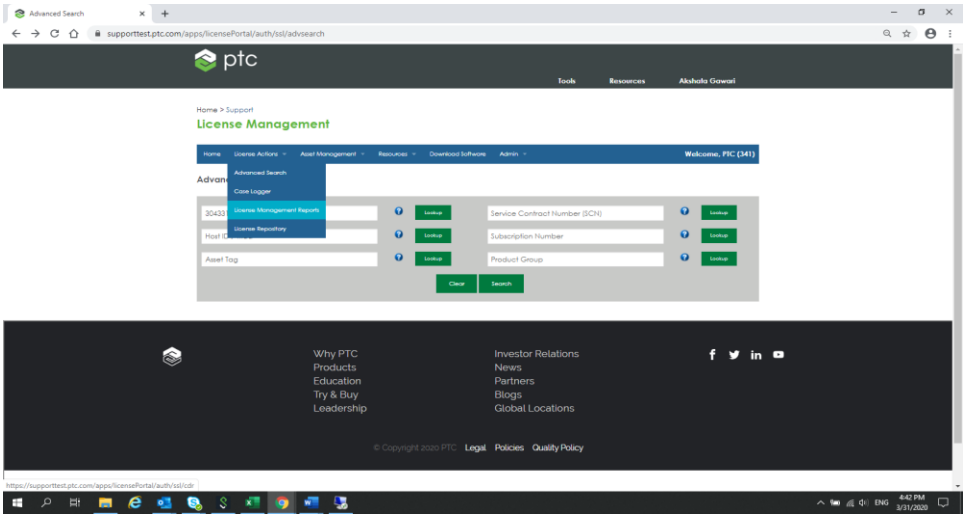
You can either click on Issue Solved or a link named ‘here’ if your issue is not solved.

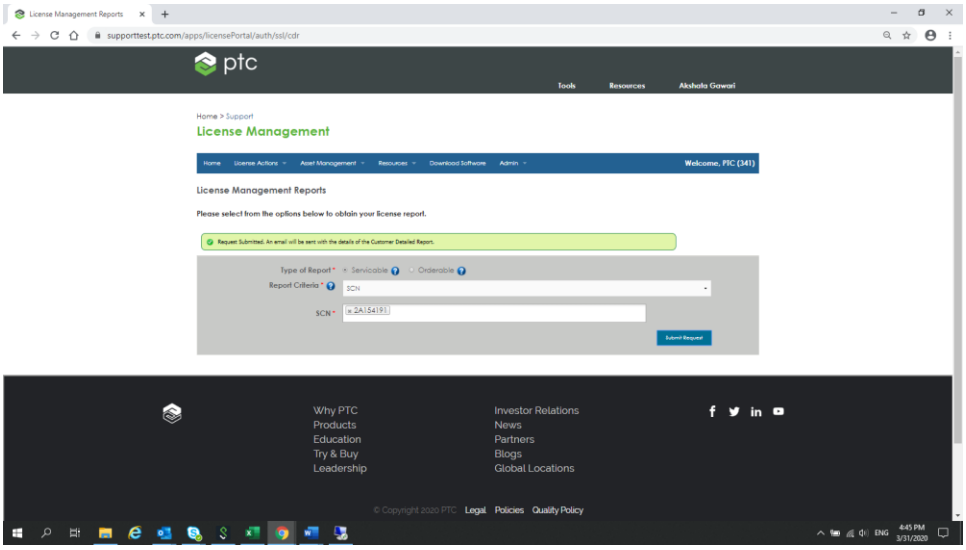


3. License Management Reports

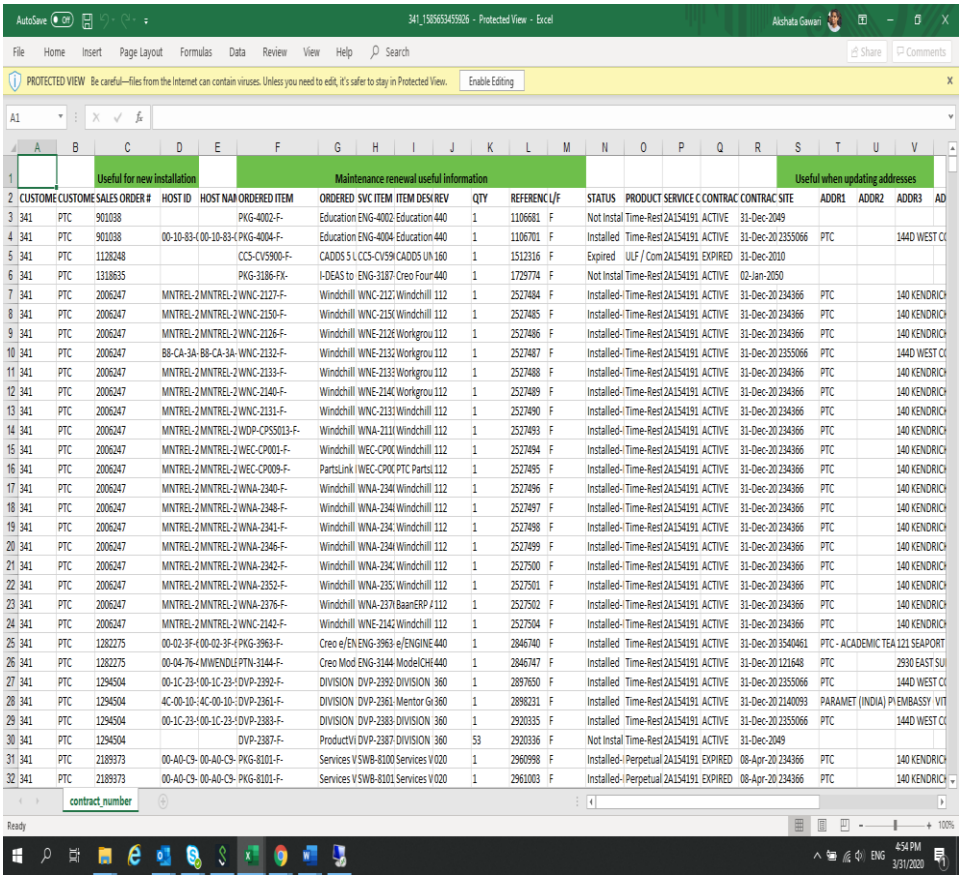
Click License Actions > License Management Reports

Select Type: Serviceable / Orderable and Criteria: Entire Customer / SCN > Click Submit





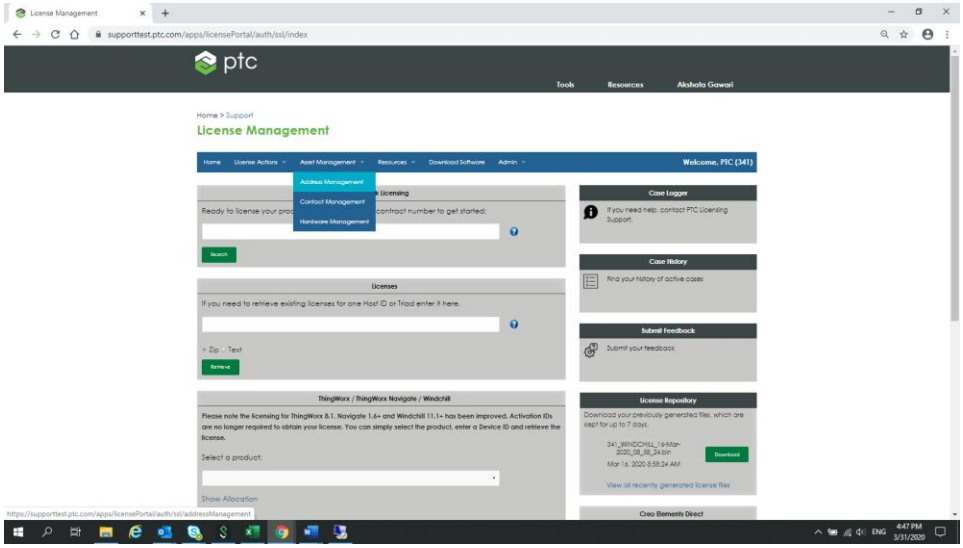
Will get mail which include following report:

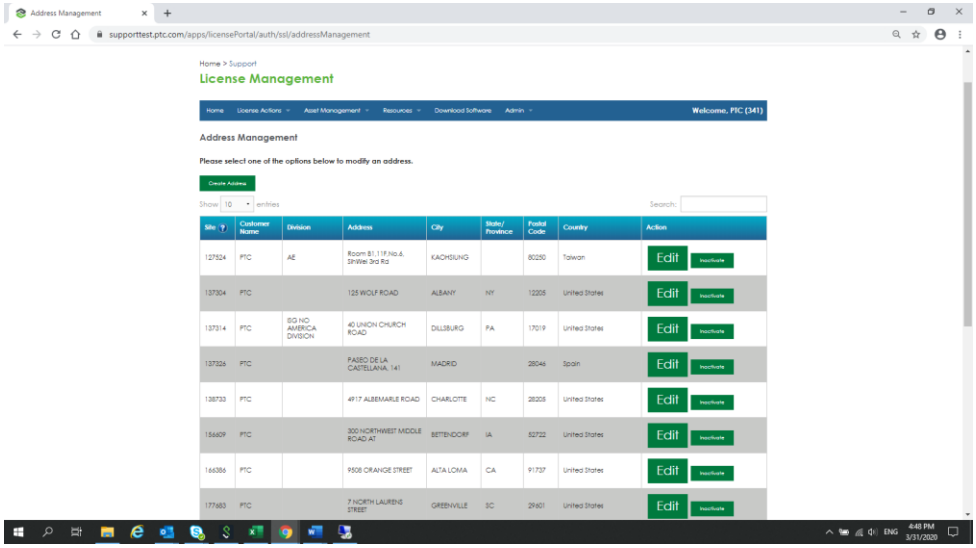


	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
1			Useful for new installation			Maintenance renewal useful information													Useful when updating addresses			
2	CUSTOME	CUSTOME	SALES ORDER #	HOST ID	HOST NAI	ORDERED ITEM	ORDERED	SVC ITEM	ITEM DESC	REV	QTY	REFERENC	L/F	STATUS	PRODUCT	SERVICE C	CONTRAC	CONTRAC	SITE	ADDR1	ADDR2	ADDR3	AD
3	341	PTC	901038			PKG-4002-F-	Education	ENG-4002	Education	440	1	1106681	F	Not Instal	Time-Rest	2A154191	ACTIVE	31-Dec-2049					
4	341	PTC	901038	00-10-83-(	00-10-83-(	PKG-4004-F-	Education	ENG-4004	Education	440	1	1106701	F	Installed	Time-Rest	2A154191	ACTIVE	31-Dec-20	2355066	PTC		144D WEST C(	
5	341	PTC	1128248			CC5-CV5900-F-	CADDS 5 L	CC5-CV59(	CADDS UN	160	1	1512316	F	Expired	ULF / Com	2A154191	EXPIRED	31-Dec-2010					
6	341	PTC	1318635			PKG-3186-FX-	I-DEAS to	ENG-3187	Creo Four	440	1	1729774	F	Not Instal	Time-Rest	2A154191	ACTIVE	02-Jan-2050					
7	341	PTC	2006247	MNTREL-2	MNTREL-2	WNC-2127-F-	Windchill	WNC-2127	Windchill	112	1	2527484	F	Installed-I	Time-Rest	2A154191	ACTIVE	31-Dec-20	234366	PTC		140 KENDRICI	
8	341	PTC	2006247	MNTREL-2	MNTREL-2	WNC-2150-F-	Windchill	WNC-2150	Windchill	112	1	2527485	F	Installed-I	Time-Rest	2A154191	ACTIVE	31-Dec-20	234366	PTC		140 KENDRICI	
9	341	PTC	2006247	MNTREL-2	MNTREL-2	WNC-2126-F-	Windchill	WNE-2126	Workgrou	112	1	2527486	F	Installed-I	Time-Rest	2A154191	ACTIVE	31-Dec-20	234366	PTC		140 KENDRICI	
10	341	PTC	2006247	B8-CA-3A-	B8-CA-3A-	WNC-2132-F-	Windchill	WNE-2132	Workgrou	112	1	2527487	F	Installed-I	Time-Rest	2A154191	ACTIVE	31-Dec-20	2355066	PTC		144D WEST C(	
11	341	PTC	2006247	MNTREL-2	MNTREL-2	WNC-2133-F-	Windchill	WNE-2133	Workgrou	112	1	2527488	F	Installed-I	Time-Rest	2A154191	ACTIVE	31-Dec-20	234366	PTC		140 KENDRICI	
12	341	PTC	2006247	MNTREL-2	MNTREL-2	WNC-2140-F-	Windchill	WNE-2140	Workgrou	112	1	2527489	F	Installed-I	Time-Rest	2A154191	ACTIVE	31-Dec-20	234366	PTC		140 KENDRICI	
13	341	PTC	2006247	MNTREL-2	MNTREL-2	WNC-2131-F-	Windchill	WNC-2131	Windchill	112	1	2527490	F	Installed-I	Time-Rest	2A154191	ACTIVE	31-Dec-20	234366	PTC		140 KENDRICI	
14	341	PTC	2006247	MNTREL-2	MNTREL-2	WDP-CPS5013-F-	Windchill	WNA-211(	Windchill	112	1	2527493	F	Installed-I	Time-Rest	2A154191	ACTIVE	31-Dec-20	234366	PTC		140 KENDRICI	
15	341	PTC	2006247	MNTREL-2	MNTREL-2	WEC-CP001-F-	Windchill	WEC-CP0(	Windchill	112	1	2527494	F	Installed-I	Time-Rest	2A154191	ACTIVE	31-Dec-20	234366	PTC		140 KENDRICI	
16	341	PTC	2006247	MNTREL-2	MNTREL-2	WEC-CP009-F-	PartsLink	WEC-CP0(	PTC Parts	112	1	2527495	F	Installed-I	Time-Rest	2A154191	ACTIVE	31-Dec-20	234366	PTC		140 KENDRICI	
17	341	PTC	2006247	MNTREL-2	MNTREL-2	WNA-2340-F-	Windchill	WNA-234(	Windchill	112	1	2527496	F	Installed-I	Time-Rest	2A154191	ACTIVE	31-Dec-20	234366	PTC		140 KENDRICI	
18	341	PTC	2006247	MNTREL-2	MNTREL-2	WNA-2348-F-	Windchill	WNA-234(	Windchill	112	1	2527497	F	Installed-I	Time-Rest	2A154191	ACTIVE	31-Dec-20	234366	PTC		140 KENDRICI	
19	341	PTC	2006247	MNTREL-2	MNTREL-2	WNA-2341-F-	Windchill	WNA-234(	Windchill	112	1	2527498	F	Installed-I	Time-Rest	2A154191	ACTIVE	31-Dec-20	234366	PTC		140 KENDRICI	
20	341	PTC	2006247	MNTREL-2	MNTREL-2	WNA-2346-F-	Windchill	WNA-234(	Windchill	112	1	2527499	F	Installed-I	Time-Rest	2A154191	ACTIVE	31-Dec-20	234366	PTC		140 KENDRICI	
21	341	PTC	2006247	MNTREL-2	MNTREL-2	WNA-2342-F-	Windchill	WNA-234(	Windchill	112	1	2527500	F	Installed-I	Time-Rest	2A154191	ACTIVE	31-Dec-20	234366	PTC		140 KENDRICI	
22	341	PTC	2006247	MNTREL-2	MNTREL-2	WNA-2352-F-	Windchill	WNA-235(	Windchill	112	1	2527501	F	Installed-I	Time-Rest	2A154191	ACTIVE	31-Dec-20	234366	PTC		140 KENDRICI	
23	341	PTC	2006247	MNTREL-2	MNTREL-2	WNA-2376-F-	Windchill	WNA-237(	BaanERP /	112	1	2527502	F	Installed-I	Time-Rest	2A154191	ACTIVE	31-Dec-20	234366	PTC		140 KENDRICI	
24	341	PTC	2006247	MNTREL-2	MNTREL-2	WNC-2142-F-	Windchill	WNE-2142	Windchill	112	1	2527504	F	Installed-I	Time-Rest	2A154191	ACTIVE	31-Dec-20	234366	PTC		140 KENDRICI	
25	341	PTC	1282275	00-02-3F-(	00-02-3F-(	PKG-3963-F-	Creo e/EN	ENG-3963	e/ENGINE	440	1	2846740	F	Installed	Time-Rest	2A154191	ACTIVE	31-Dec-20	3540461	PTC - ACADEMIC TEA		121 SEAPORT	
26	341	PTC	1282275	00-04-76-(	MWENDLE	PTN-3144-F-	Creo Mod	ENG-3144	ModelCHE	440	1	2846747	F	Installed	Time-Rest	2A154191	ACTIVE	31-Dec-20	121648	PTC		2930 EAST SU	
27	341	PTC	1294504	00-1C-23-(	00-1C-23-(	DVP-2392-F-	DIVISION	DVP-2392	DIVISION	360	1	2897650	F	Installed	Time-Rest	2A154191	ACTIVE	31-Dec-20	2355066	PTC		144D WEST C(	
28	341	PTC	1294504	4C-00-10-(	4C-00-10-(	DVP-2361-F-	DIVISION	DVP-2361	Mentor Gi	360	1	2898231	F	Installed	Time-Rest	2A154191	ACTIVE	31-Dec-20	2140093	PARAMET	(INDIA) P	EMBASSY VIT	
29	341	PTC	1294504	00-1C-23-(	00-1C-23-(	DVP-2383-F-	DIVISION	DVP-2383	DIVISION	360	1	2920335	F	Installed	Time-Rest	2A154191	ACTIVE	31-Dec-20	2355066	PTC		144D WEST C(	
30	341	PTC	1294504			DVP-2387-F-	ProductVi	DVP-2387	DIVISION	360	53	2920336	F	Not Instal	Time-Rest	2A154191	ACTIVE	31-Dec-2049					
31	341	PTC	2189373	00-A0-C9-	00-A0-C9-	PKG-8101-F-	Services V	SWB-8100	Services V	020	1	2960998	F	Installed-I	Perpetual	2A154191	EXPIRED	08-Apr-20	234366	PTC		140 KENDRICI	
32	341	PTC	2189373	00-A0-C9-	00-A0-C9-	PKG-8101-F-	Services V	SWB-8101	Services V	020	1	2961003	F	Installed-I	Perpetual	2A154191	EXPIRED	08-Apr-20	234366	PTC		140 KENDRICI	

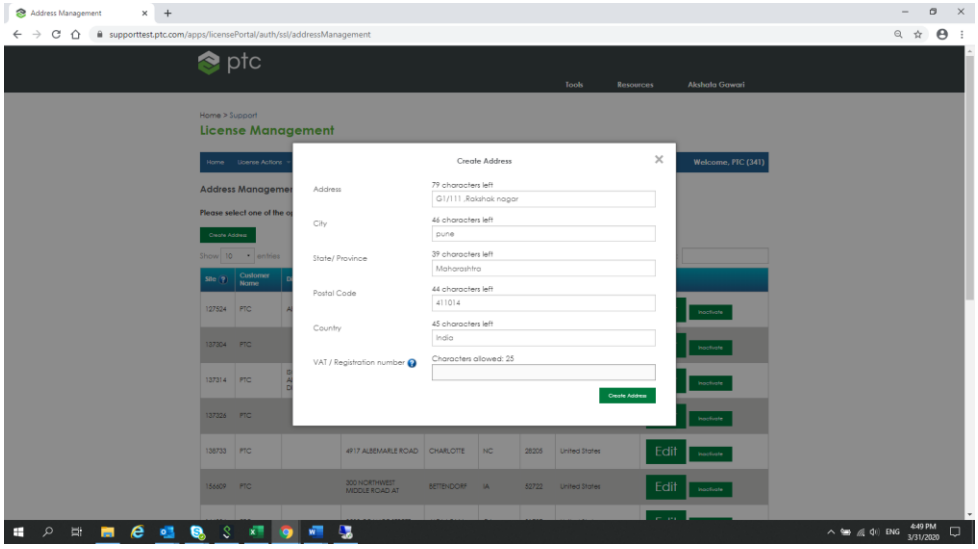
4. Address Management

Select Asset Management > Address Management

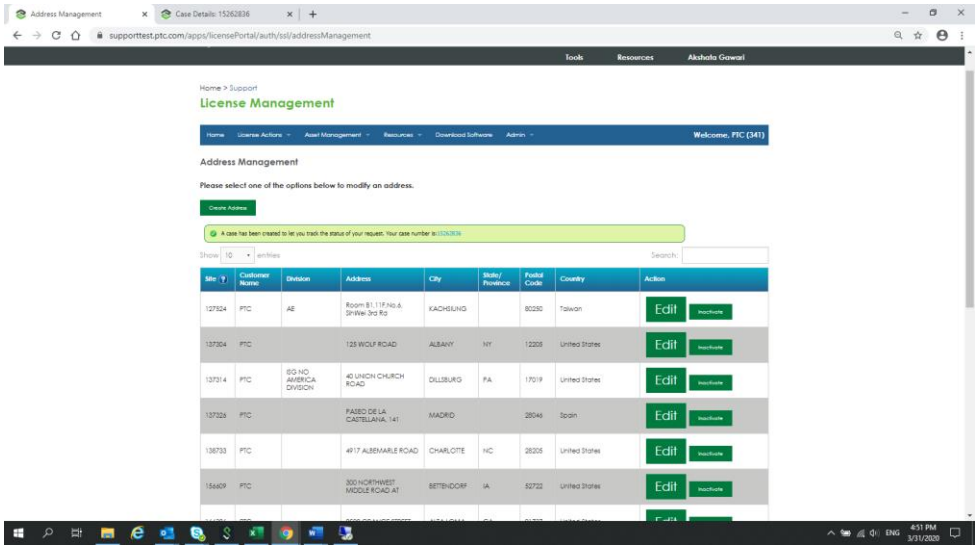




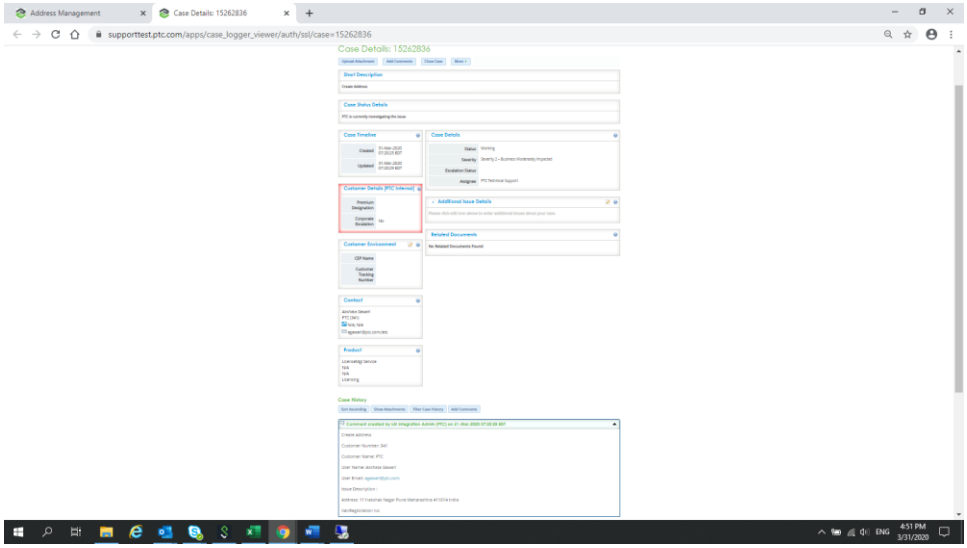
Create new Address:



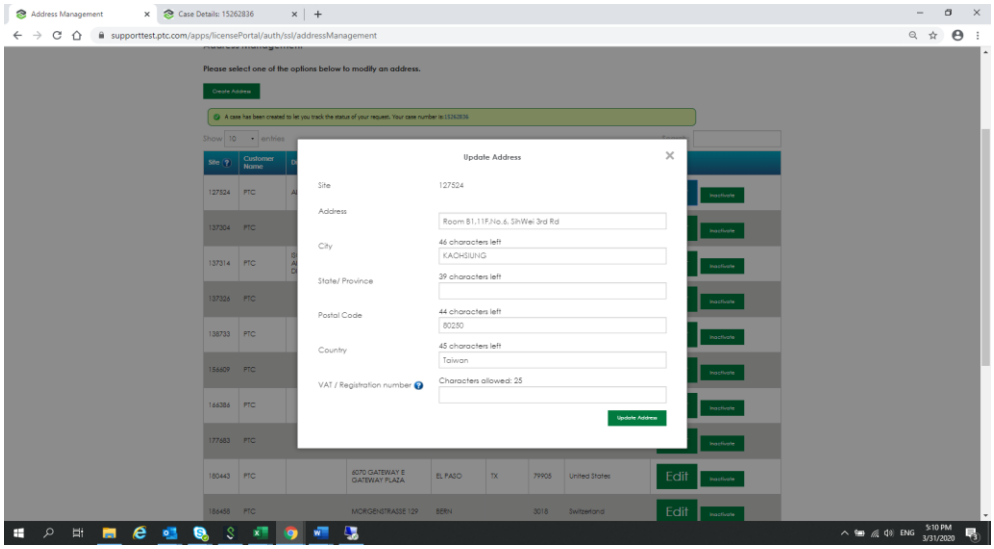
Successfully created address:



Successful case includes updated data as follows:

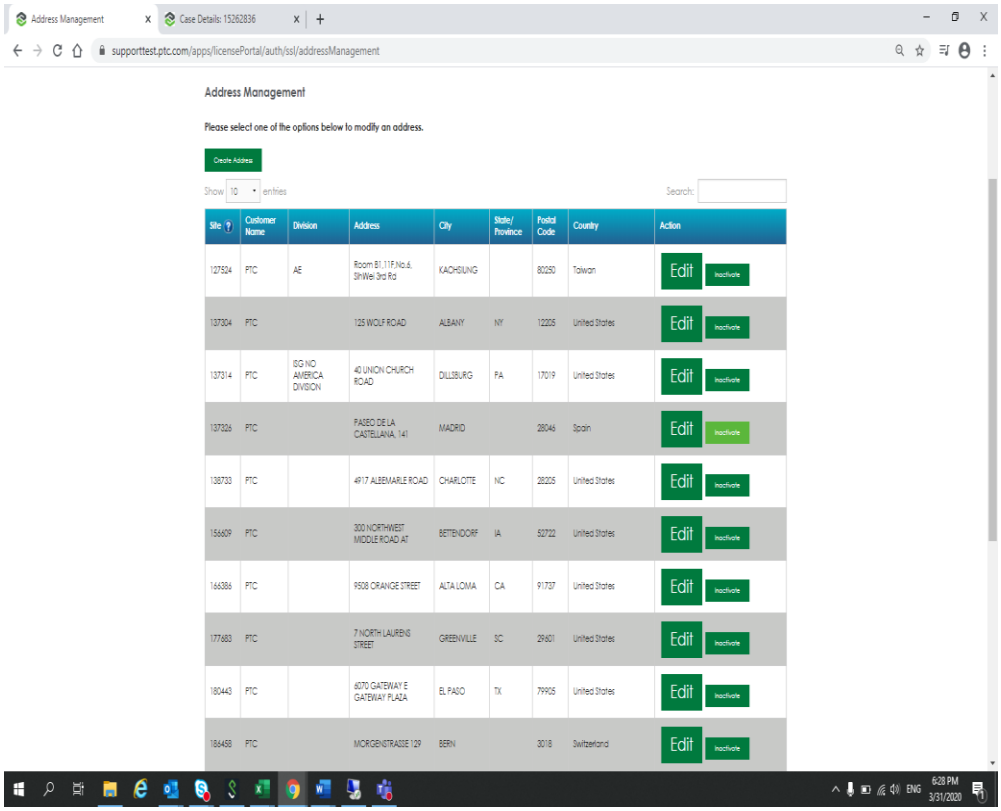


We can edit Address using EDIT button:

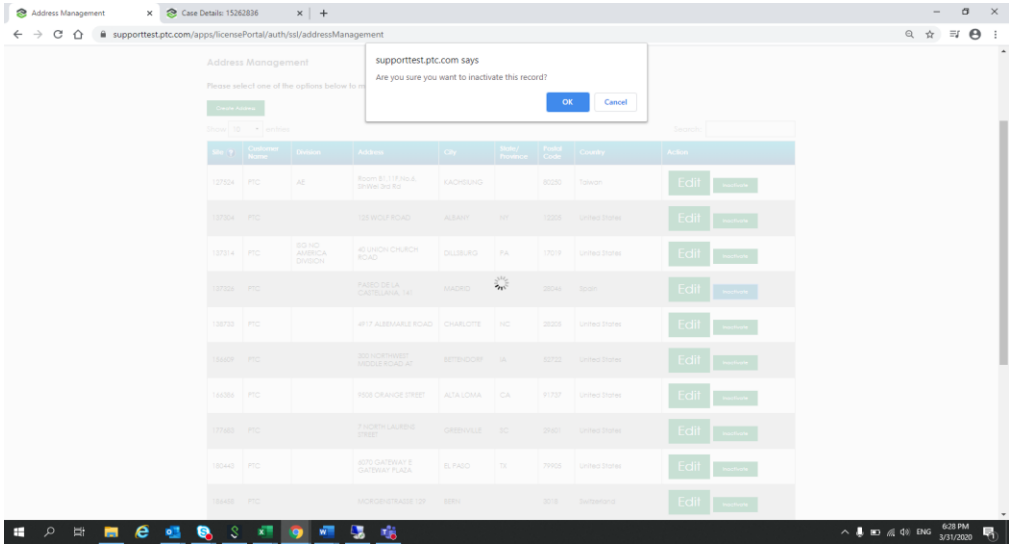


After editing address click on “update address” button to update it and then again it will create success case with some case number.

Inactivate Address



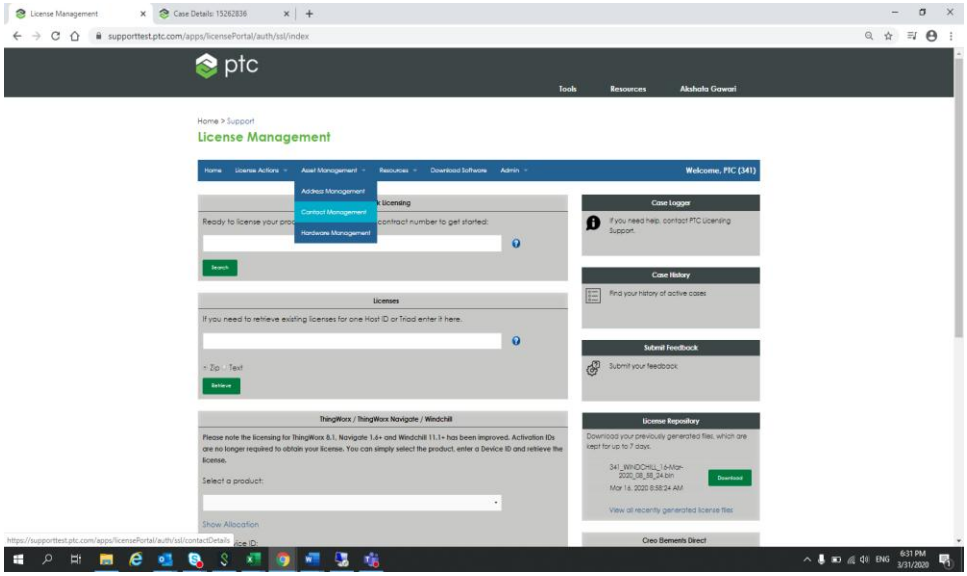
Click on Inactivate, a confirmation box appears.

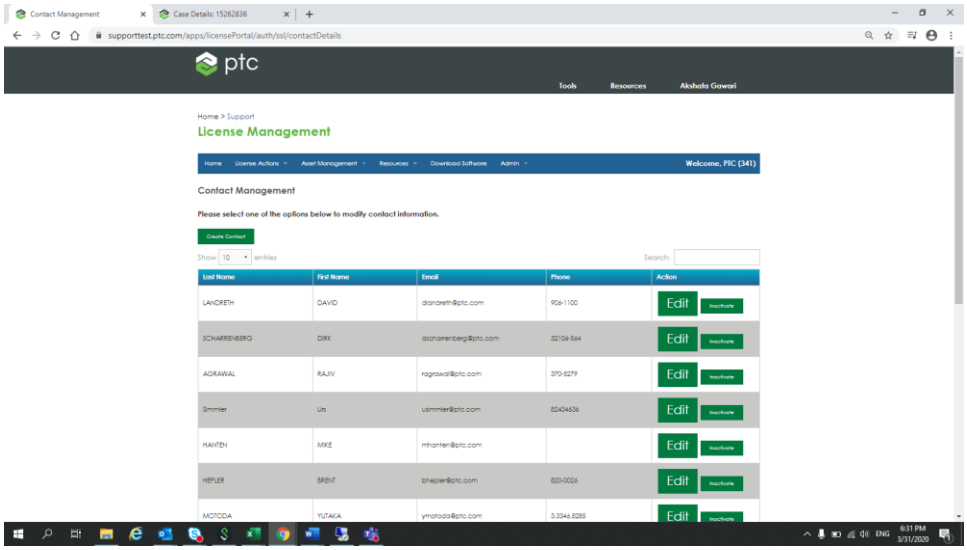


On clicking ok it will again create case and address will get inactivated.

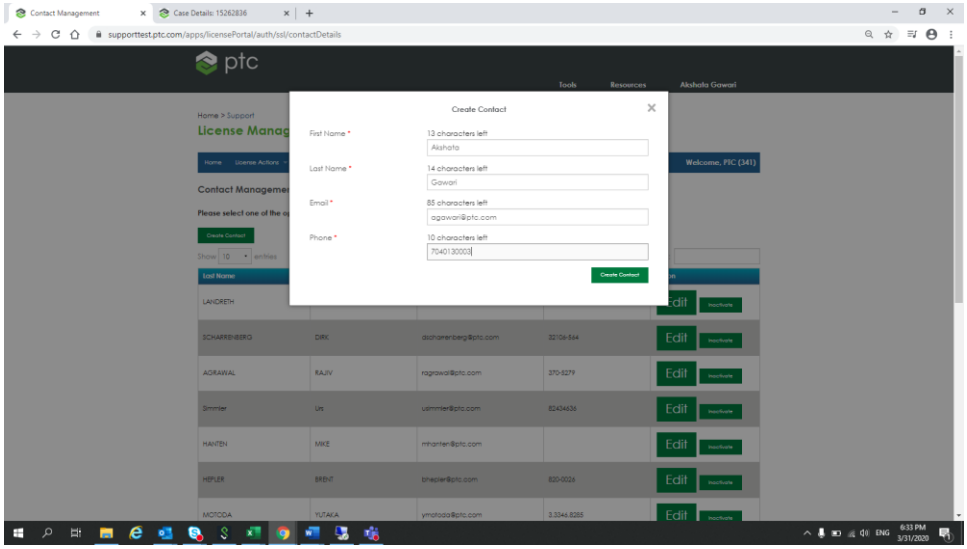
5. Contact Management

Select Asset Management > Contact Management

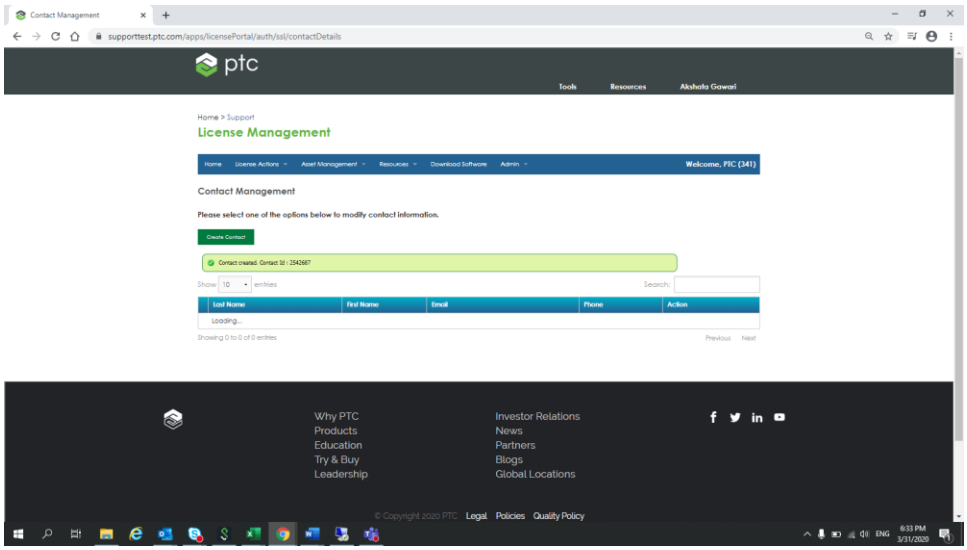




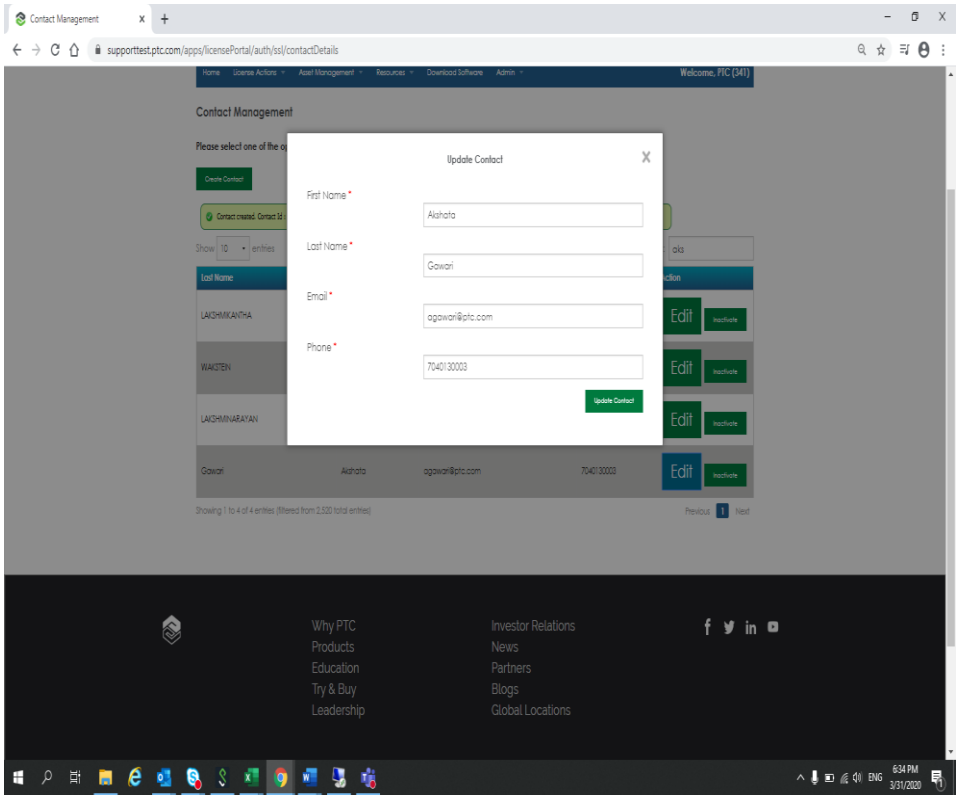
Create new contact:



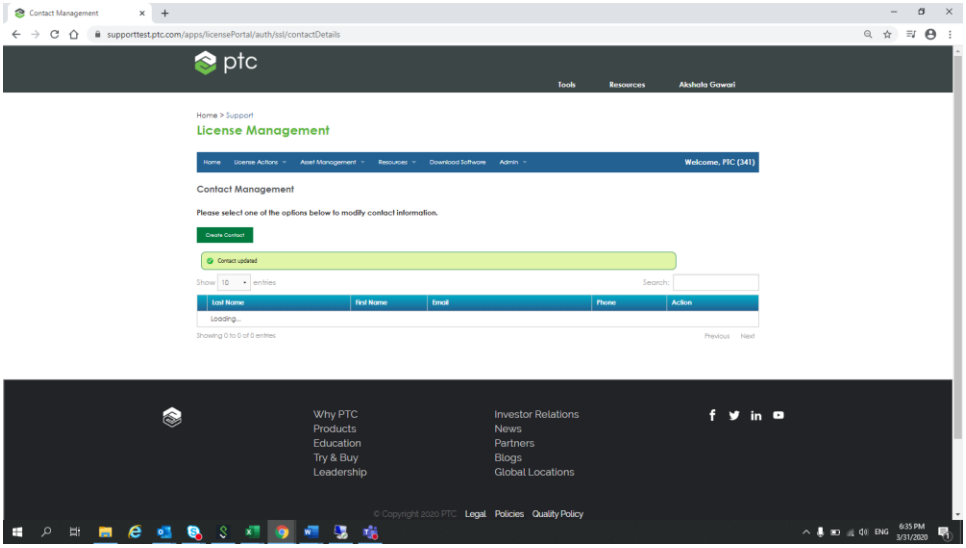
This shows message that contact is created.



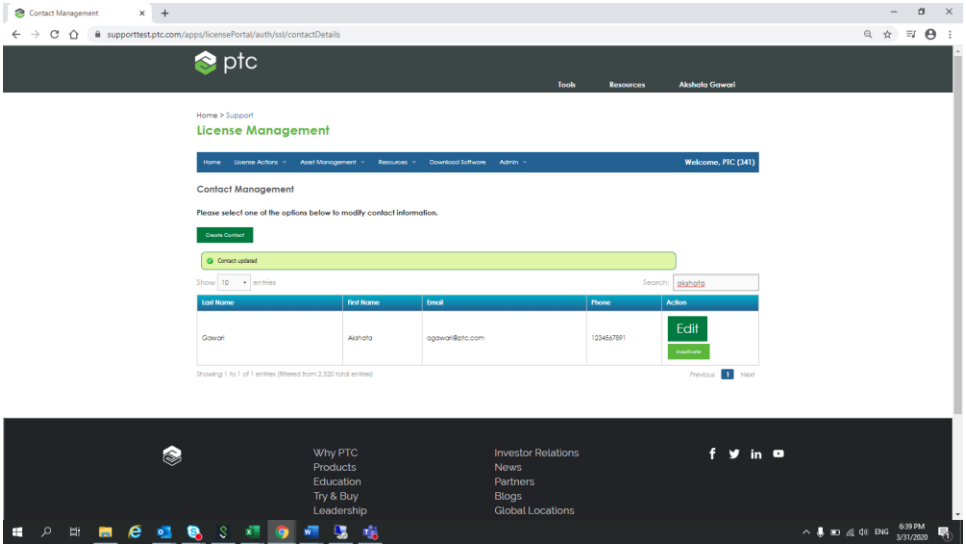
Update/Edit contact:

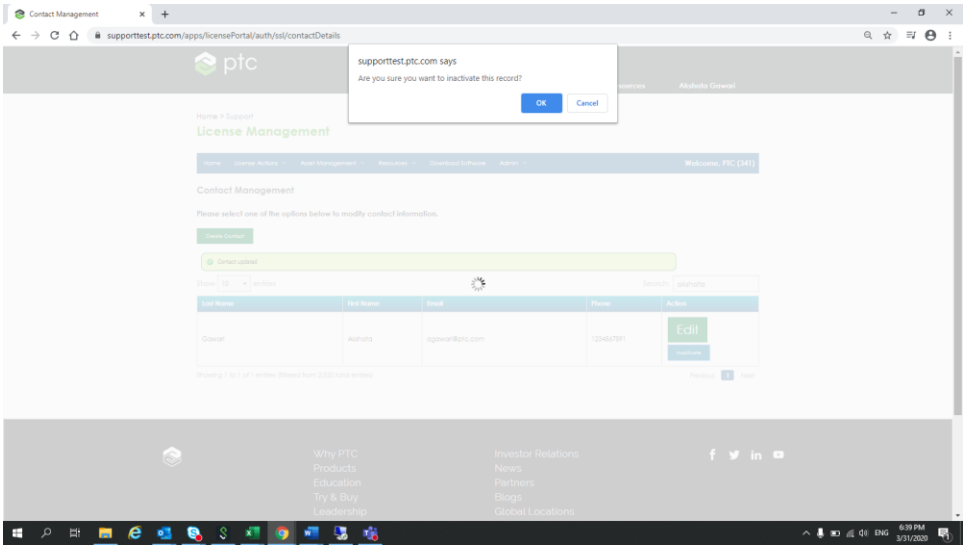

Contact Management
supporttest.ptc.com/apps/licensePortal/auth/ssl/contactDetails
Contact Management
Update Contact
First Name *
Akshata
Last Name *
Gawari
Email *
agawari@ptc.com
Phone *
7040130003
Update Contact
Why PTC
Products
Education
Try & Buy
Leadership
Investor Relations
News
Partners
Blogs
Global Locations

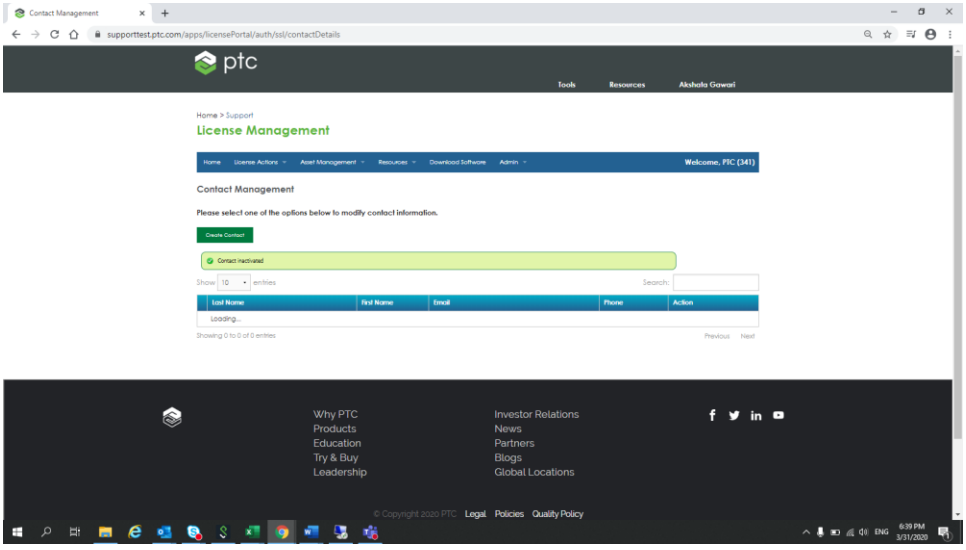
This screen shows that contact is updated with successful message.



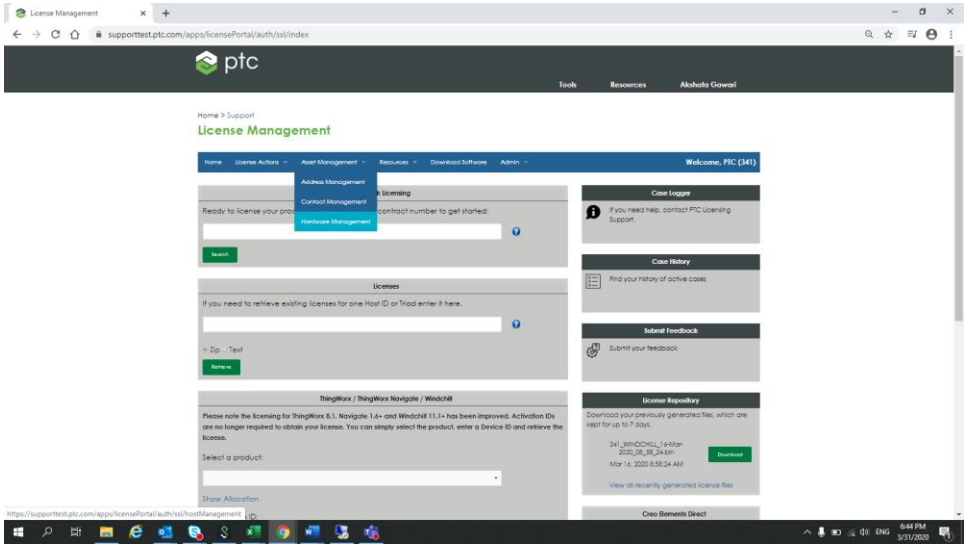
Inactivate Contact:

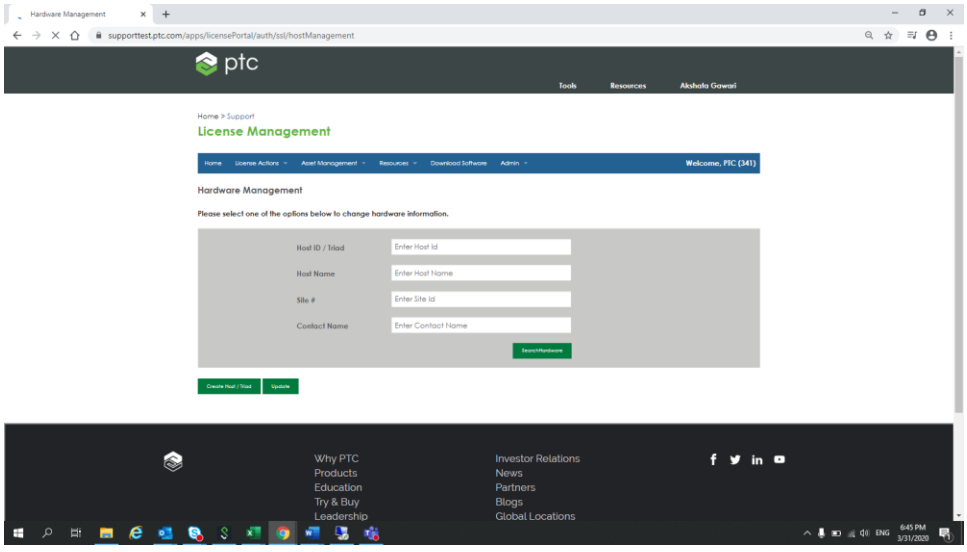



Contact Management
supporttest.ptc.com/apps/licensePortal/auth/ssl/contactDetails
supporttest.ptc.com says
Are you sure you want to inactivate this record?
OK
Cancel
ptc
Akshata Gawari
Home > Support
License Management
Contact Management
Please select one of the options below to modify contact information.
Create Contact
Contact updated
Edit
Why PTC
Products
Education
Try & Buy
Leadership
Investor Relations
News
Partners
Blogs
Global Locations
ENG
6:39 PM
3/31/2020


Contact Management
supporttest.ptc.com/apps/licensePortal/auth/ssl/contactDetails
ptc
Tools
Resources
Akshata Gawari
Home > Support
License Management
Home
License Actions
Asset Management
Resources
Download Software
Admin
Welcome, PIC (341)
Contact Management
Please select one of the options below to modify contact information.
Create Contact
Contact inactivated
Show 10 entries
Search:
Last Name
First Name
Email
Phone
Action
Loading...
Showing 0 to 0 of 0 entries
Previous
Next
Why PTC
Products
Education
Try & Buy
Leadership
Investor Relations
News
Partners
Blogs
Global Locations
© Copyright 2020 PTC
Legal
Policies
Quality Policy
ENG
6:39 PM
3/31/2020

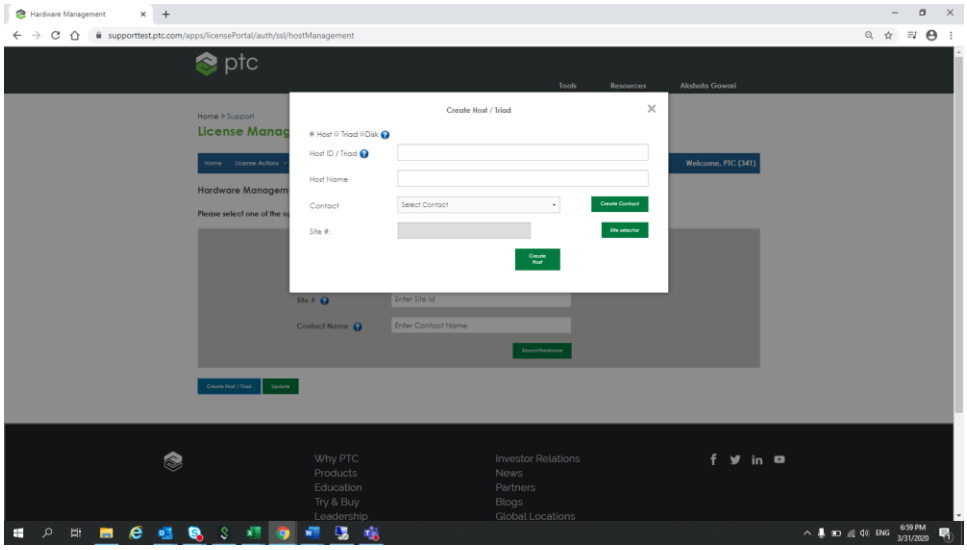
6. Hardware Management

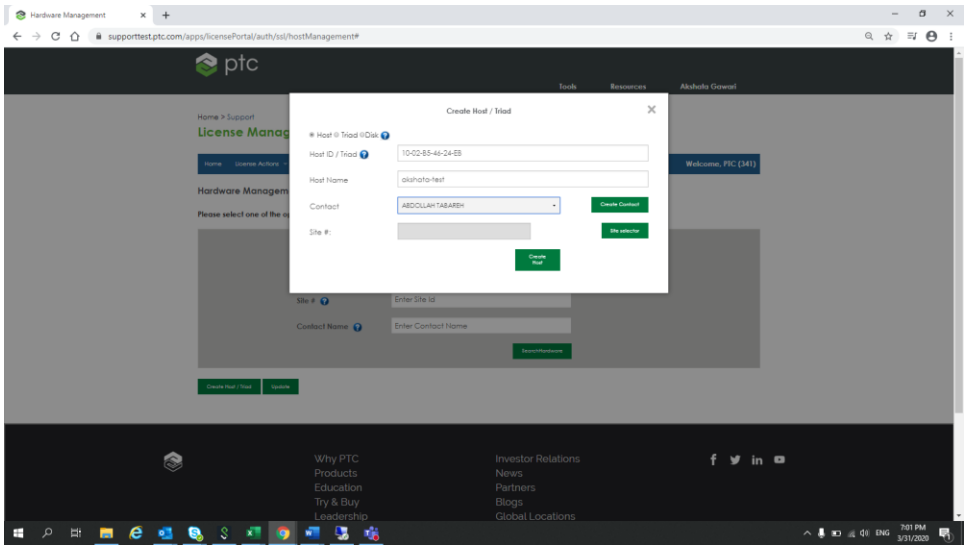


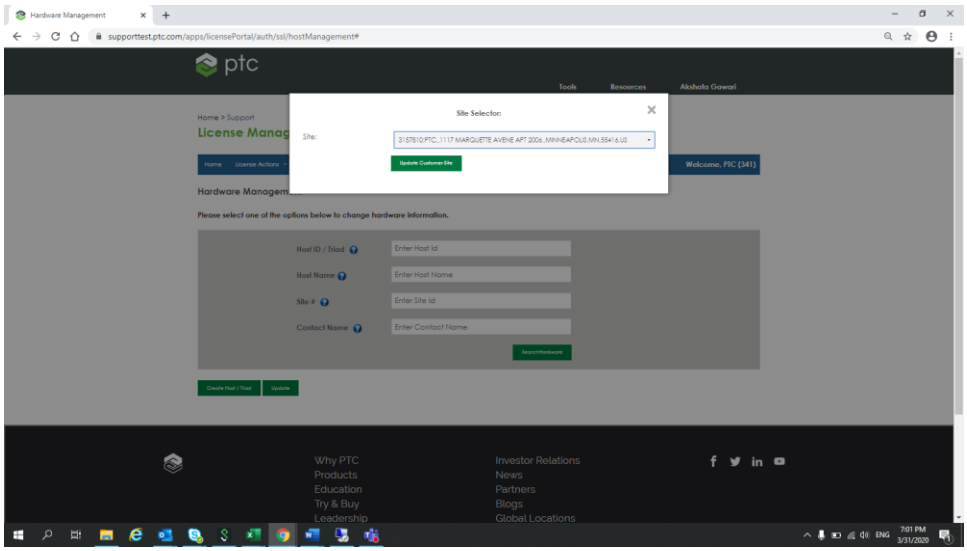


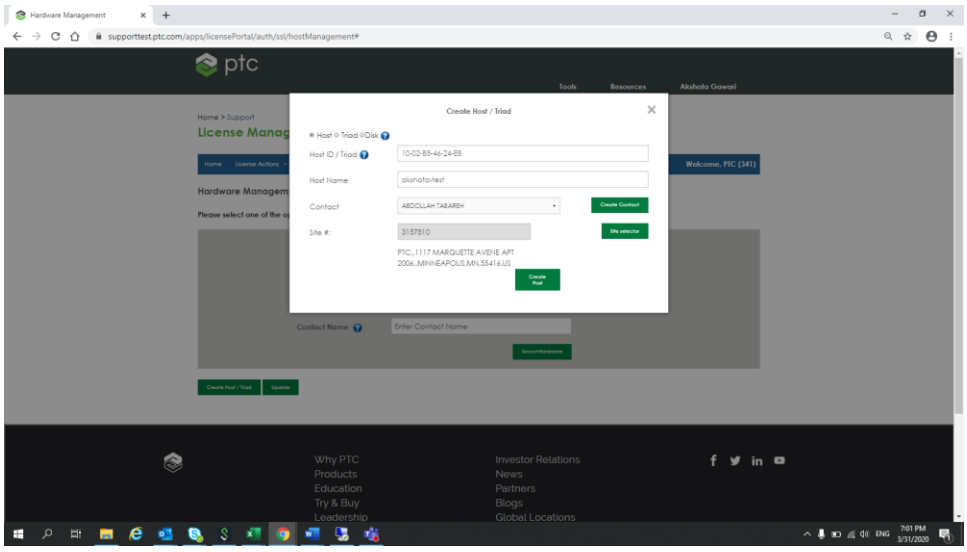
a) Create Host

Click Create Host Id / Triad > A dialog box appears

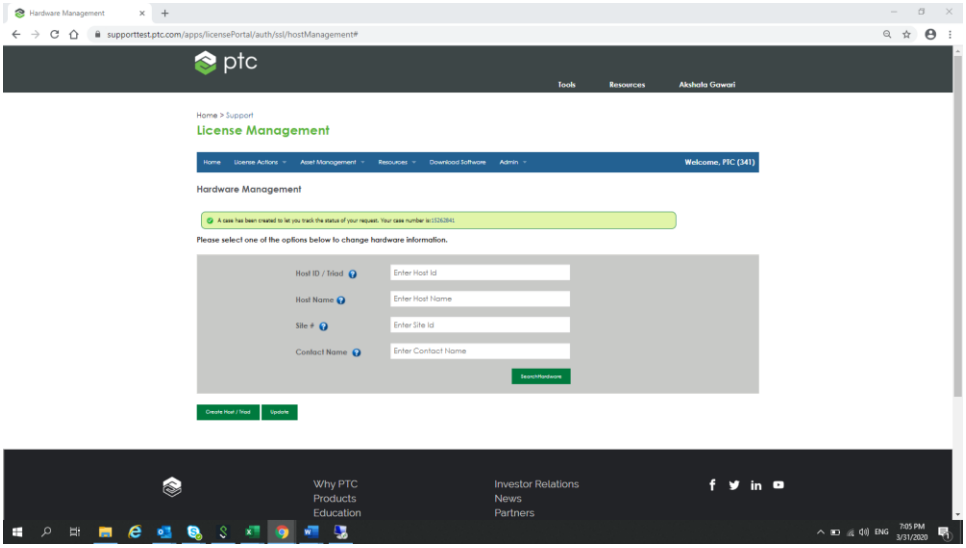


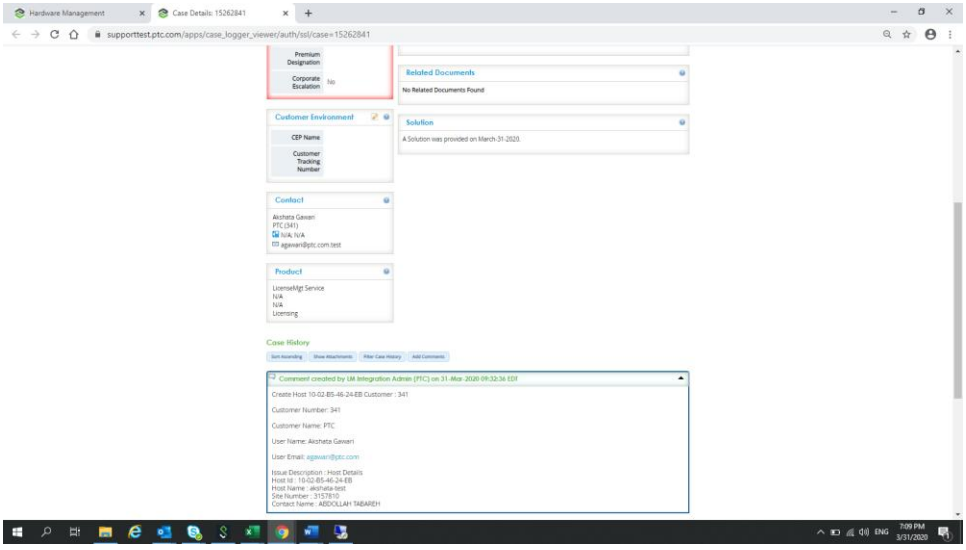



Hardware Management
supporttest.ptc.com/apps/licensePortal/auth/ssl/hostManagement#
ptc
Tools
Resources
Akshata Gawari
Site Selector:
Site:
Update Customer Site
Home > Support
License Manag
Welcome, PTC (341)
Hardware Managem
Please select one of the options below to change hardware information.
Host ID / Triad
Enter Host Id
Host Name
Enter Host Name
Site #
Enter Site Id
Contact Name
Enter Contact Name
Why PTC
Products
Education
Try & Buy
Leadership
Investor Relations
News
Partners
Blogs
Global Locations
7:01 PM
3/31/2020


Hardware Management
supporttest.ptc.com/apps/licensePortal/auth/ssl/hostManagement#
ptc
Tools
Resources
Akshata Gawari
Create Host / Triad
Host ID / Triad
10-02-B5-46-24-EB
Host Name
akshata-test
Contact
ABDOLLAH TABAREH
Create Contact
Site #:
3157810
Site selector
PTC,,1117 MARQUETTE AVENE APT 2006,,MINNEAPOLIS,MN,55416,US
Create Host
Contact Name
Enter Contact Name
Why PTC
Products
Education
Try & Buy
Leadership
Investor Relations
News
Partners
Blogs
Global Locations
7:01 PM
3/31/2020

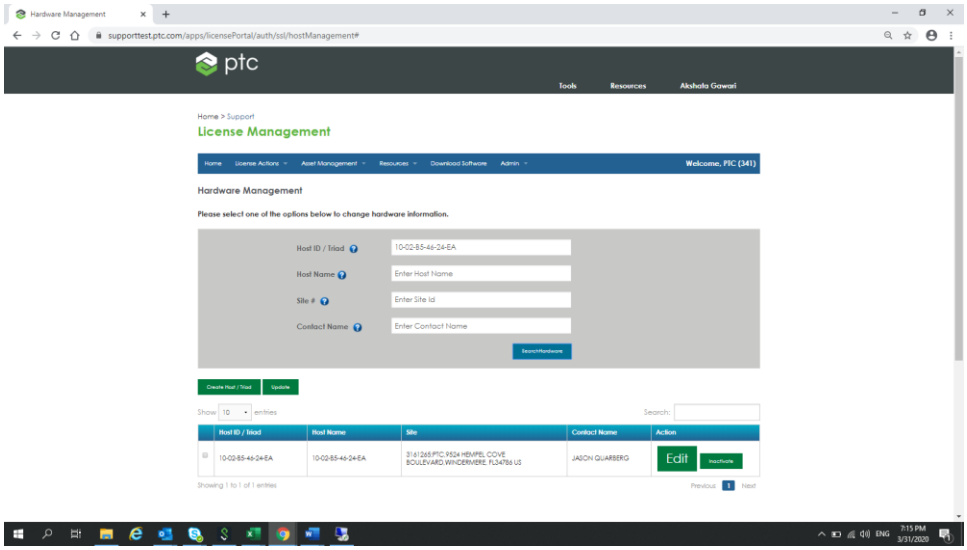
A case has been created to let you track the status of your request

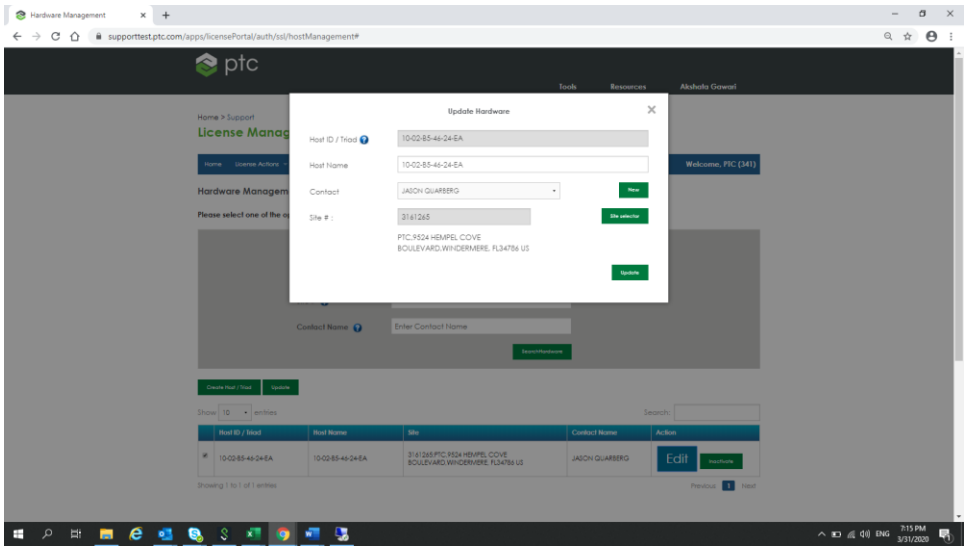




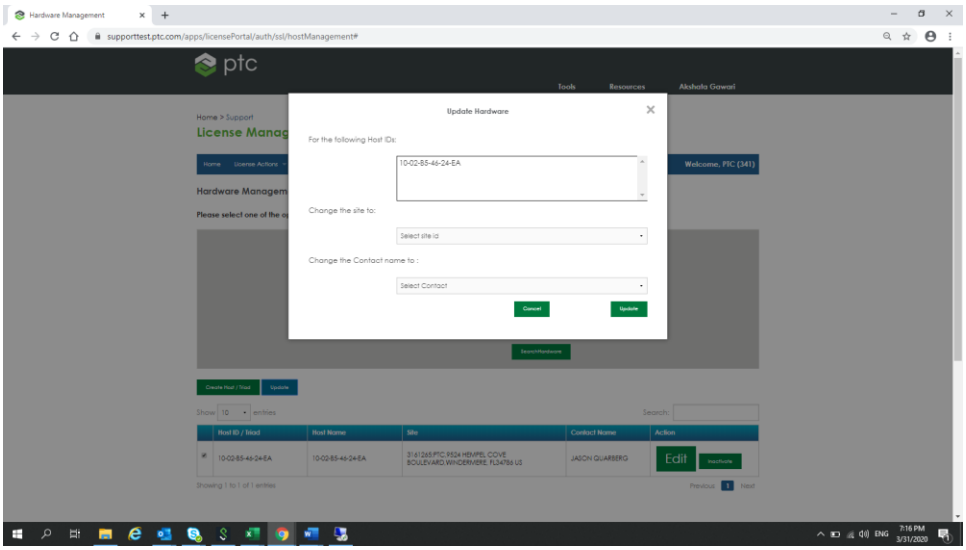
b) Edit Hardware

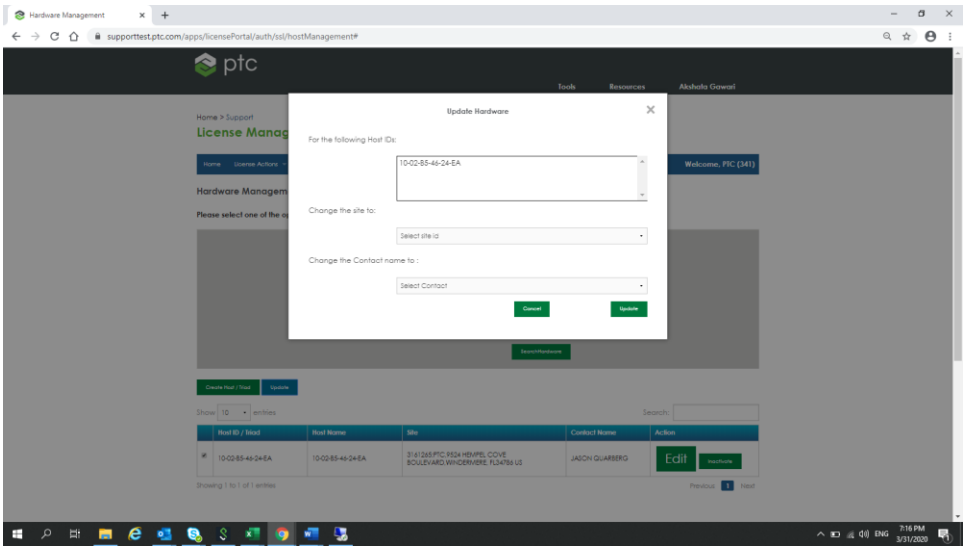
Search Hardware by any of the field > Click Edit

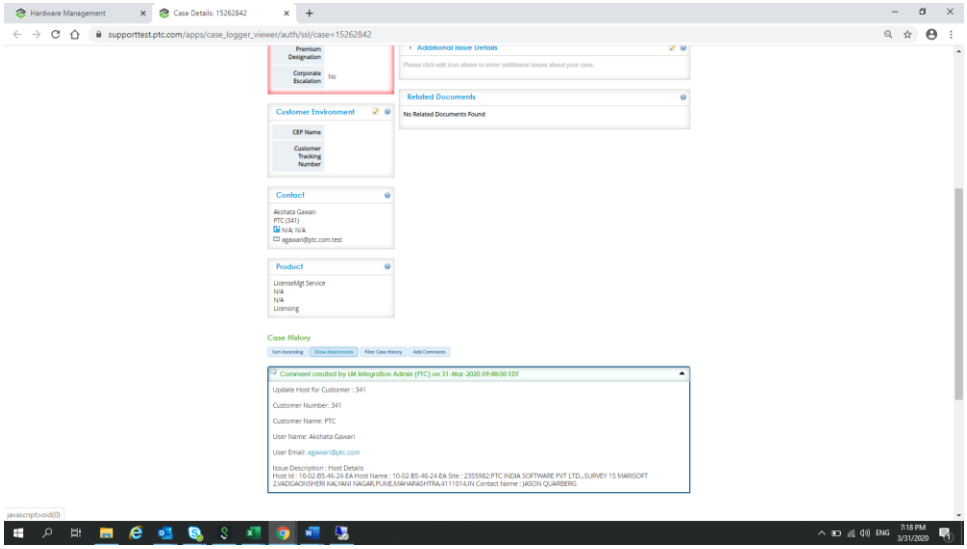




c) Update hardware:

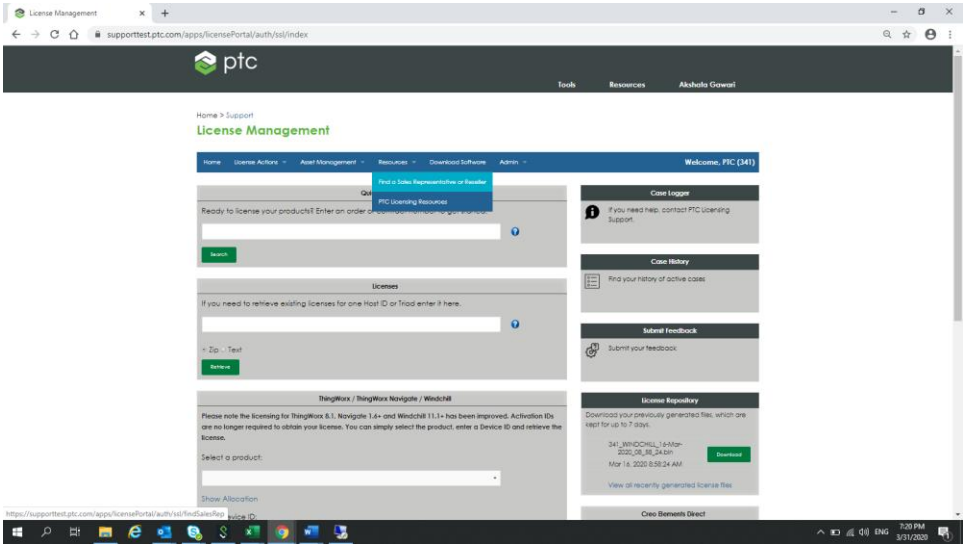


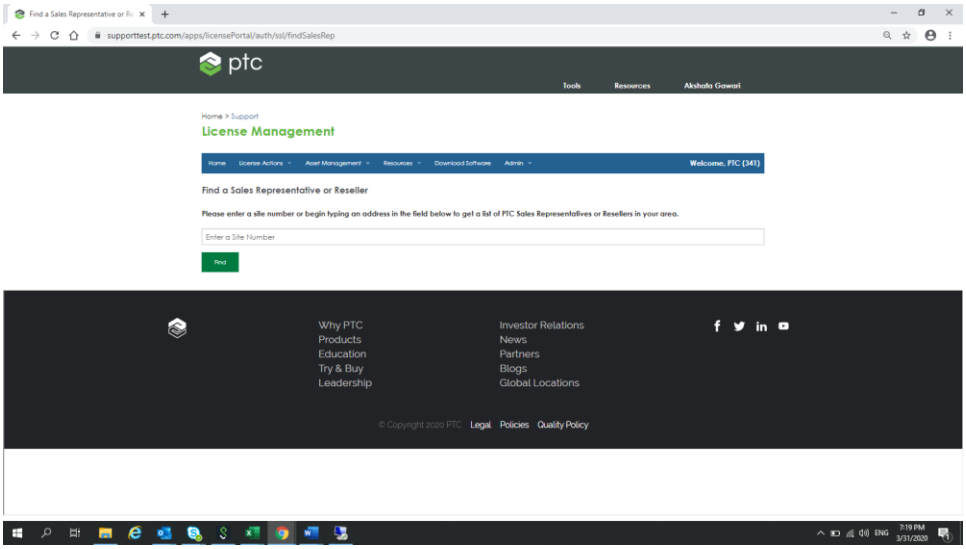


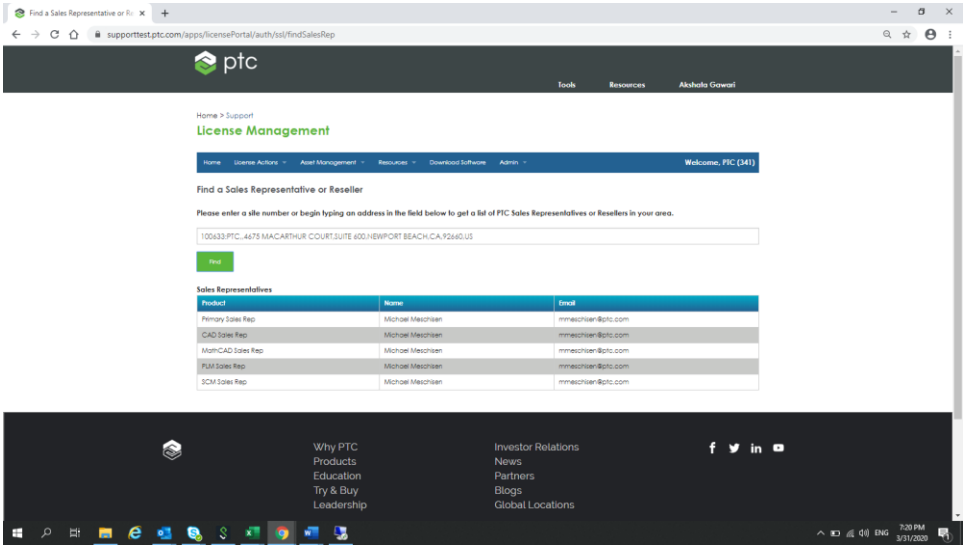

Hardware Management
Case Details: 15262842
supporttest.ptc.com/apps/case_logger_viewer/auth/ssl/case=15262842
Premium Designation
Corporate Escalation
No
Additional Issue Details
Please click edit icon above to enter additional issues about your case.
Related Documents
No Related Documents Found
Customer Environment
CEP Name
Customer Tracking Number
Contact
Akshata Gawari
PTC (341)
N/A, N/A
agawari@ptc.com.test
Product
LicenseMgt Service
N/A
N/A
Licensing
Case History
Sort Ascending
Show Attachments
Filter Case History
Add Comments
Comment created by LM Integration Admin (PTC) on 31-Mar-2020 09:48:00 EDT
Update Host for Customer : 341
Customer Number: 341
Customer Name: PTC
User Name: Akshata Gawari
User Email: agawari@ptc.com
Issue Description : Host Details
Host Id : 10-02-B5-46-24-EA Host Name : 10-02-B5-46-24-EA Site : 2355982 PTC INDIA SOFTWARE PVT LTD.,SURVEY 15 MARISOFT 2,VADGAONSHERI KALYANI NAGAR,PUNE,MAHARASHTRA,411014,IN Contact Name : JASON QUARBERG
javascriptvoid(0)
ENG
7:18 PM
3/31/2020

7. Find a Sales Representative or Reseller

Click Resources > Find a Sales Representative or Reseller






Find a Sales Representative or Re
supporttest.ptc.com/apps/licensePortal/auth/ssl/findSalesRep
ptc
Tools
Resources
Akshata Gawari
Home > Support
License Management
Home
License Actions
Asset Management
Resources
Download Software
Admin
Welcome, PTC (341)
Find a Sales Representative or Reseller
Please enter a site number or begin typing an address in the field below to get a list of PTC Sales Representatives or Resellers in your area.
100633:PTC...4675 MACARTHUR COURT,SUITE 600,NEWPORT BEACH,CA,92660,US
Find
Sales Representatives
Product
Name
Email
Primary Sales Rep
Michael Meschisen
mmeschisen@ptc.com
CAD Sales Rep
Michael Meschisen
mmeschisen@ptc.com
MathCAD Sales Rep
Michael Meschisen
mmeschisen@ptc.com
PLM Sales Rep
Michael Meschisen
mmeschisen@ptc.com
SCM Sales Rep
Michael Meschisen
mmeschisen@ptc.com
Why PTC
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Try & Buy
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Blogs
Global Locations
ENG
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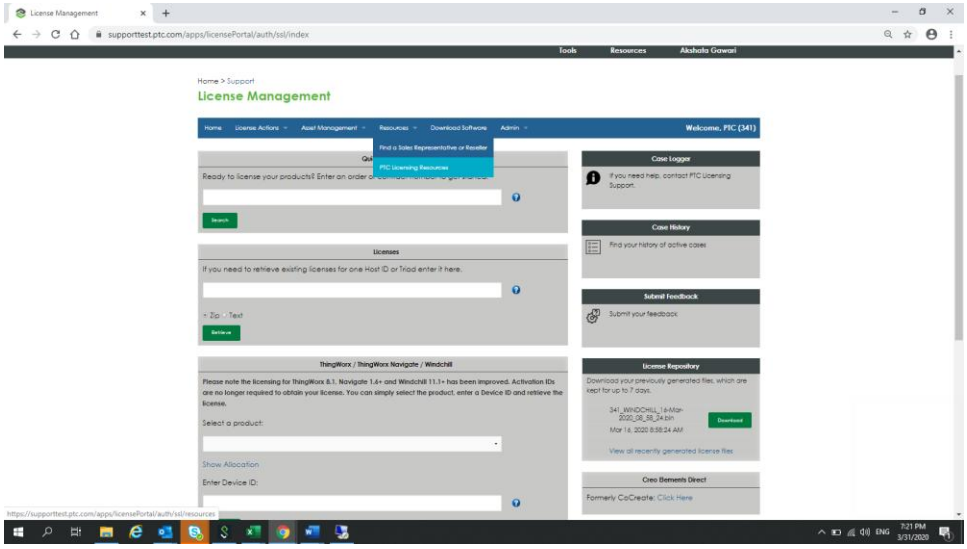
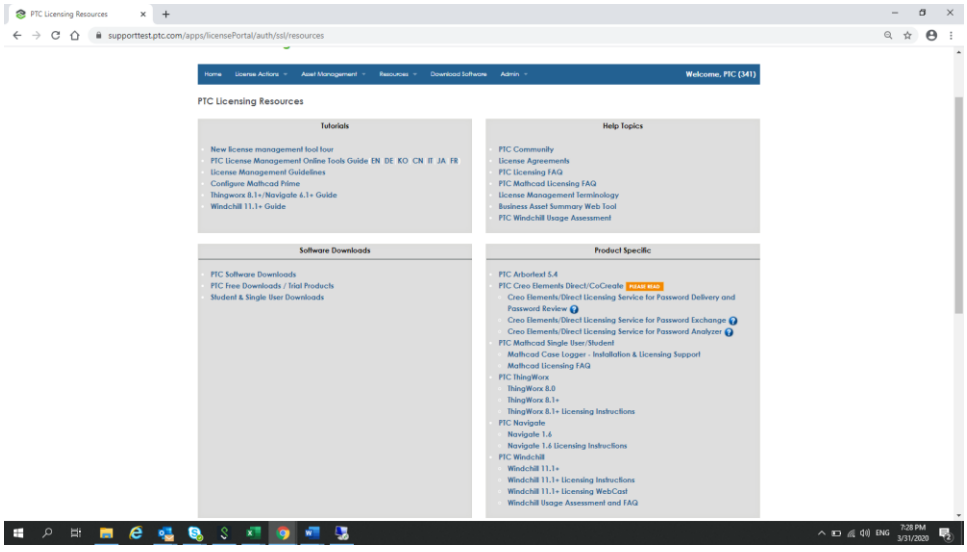
3/31/2020

8. **PTC Licensing Resources**:

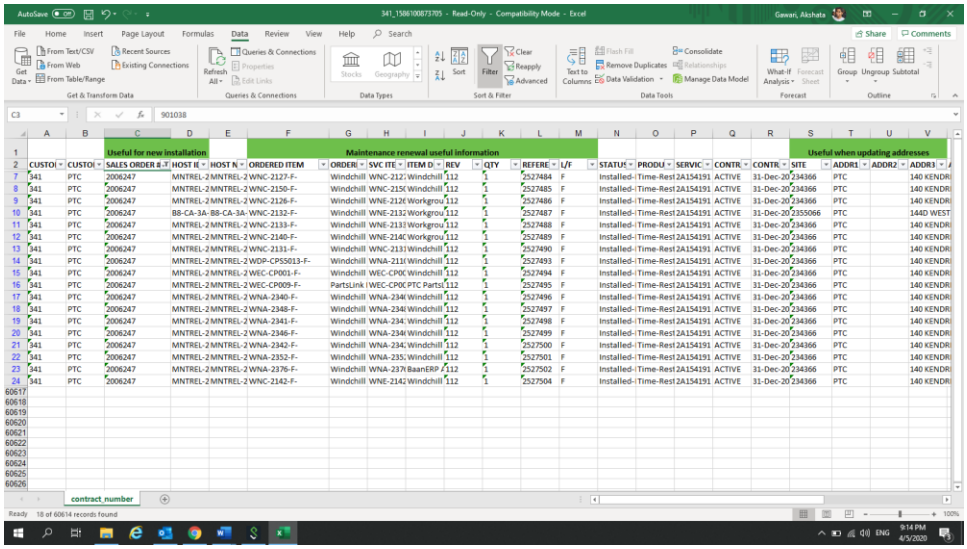




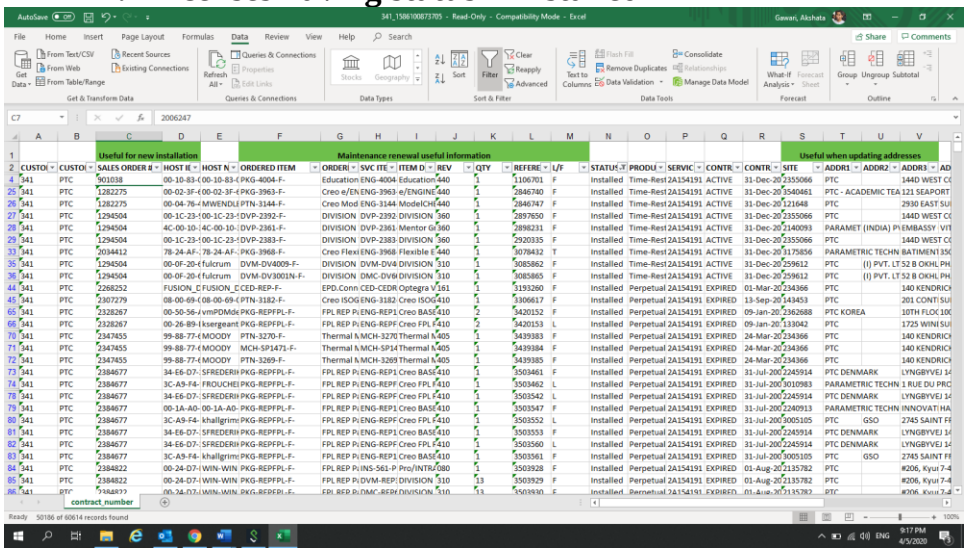
ANNEXURE 2 : OUTPUT REPORTS

WITH DATA

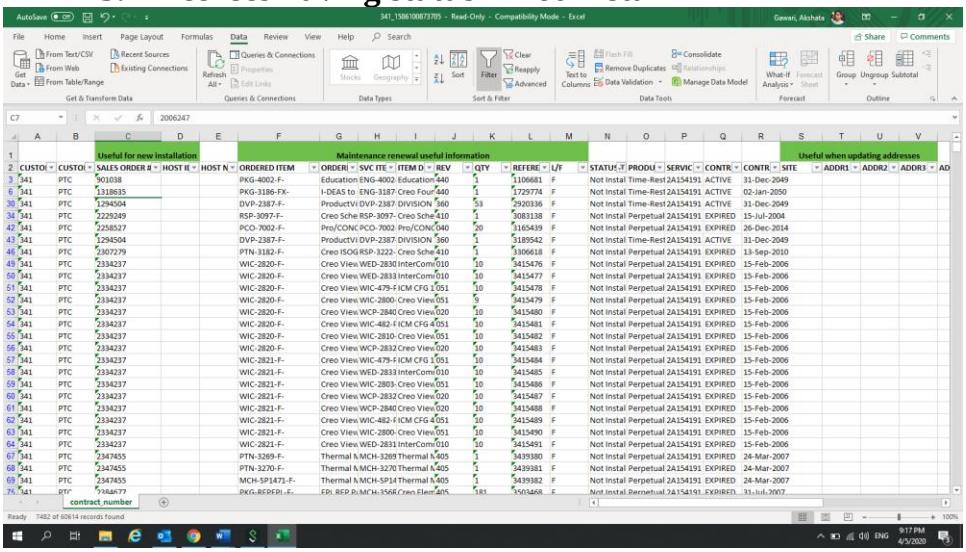
1. Licenses report by SON – 2006247



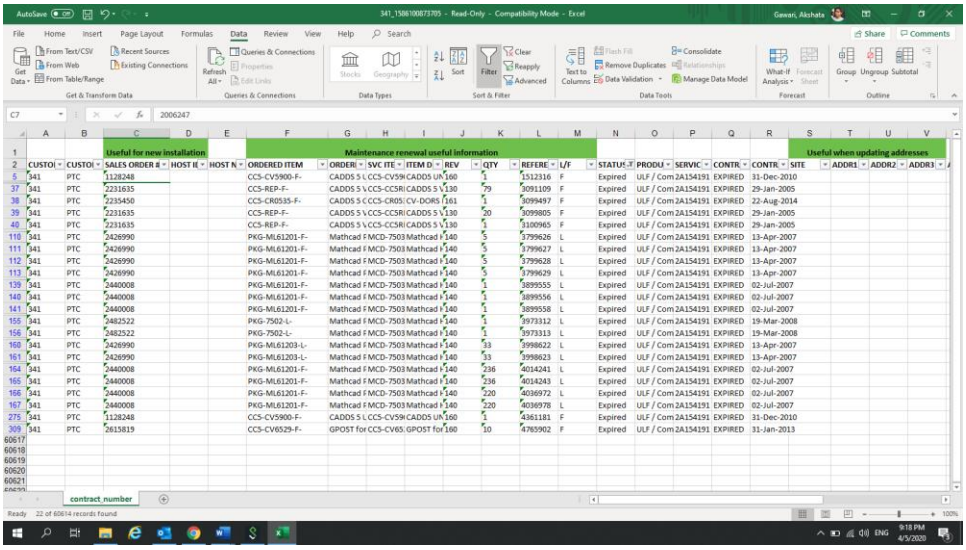
2. Licenses having status – Installed



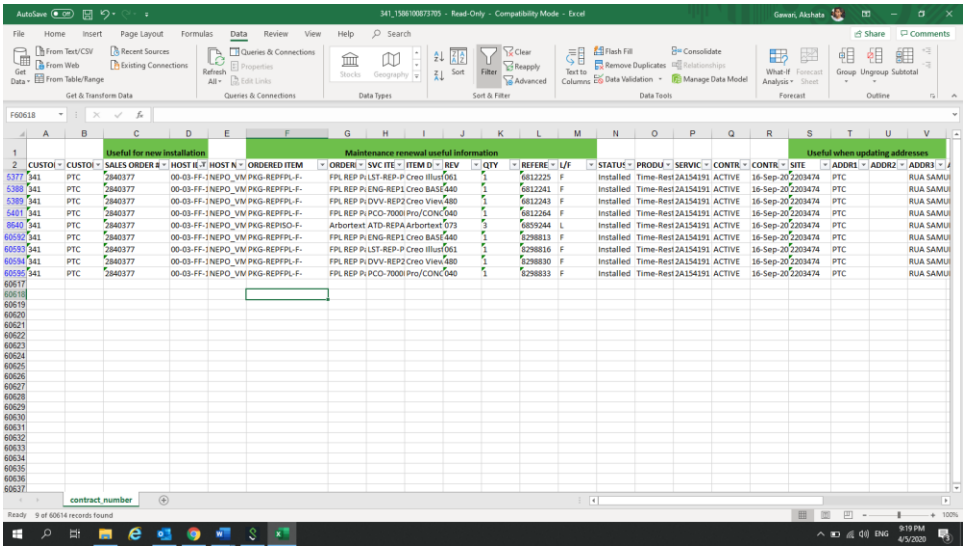
3. **Licenses having status – Not Install**



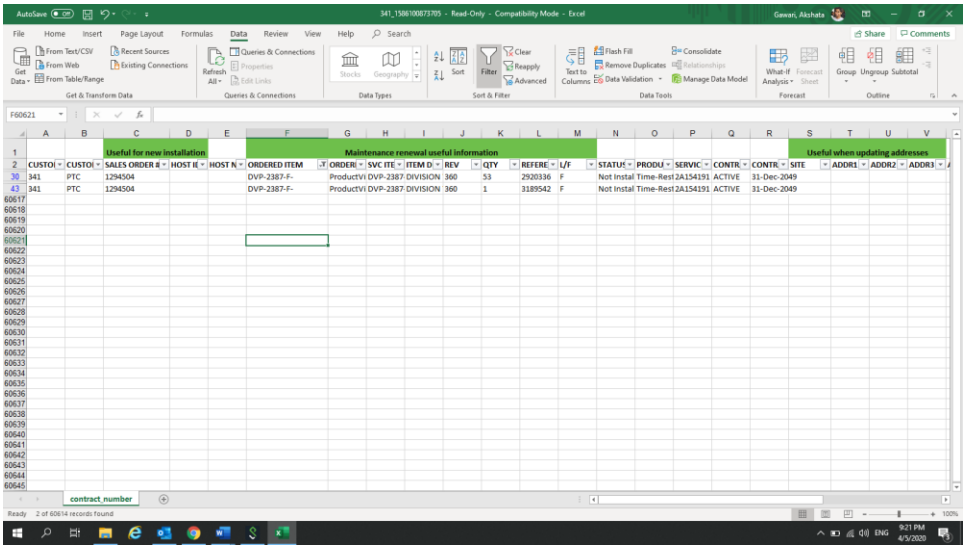
4. **Licenses having status – Expired**



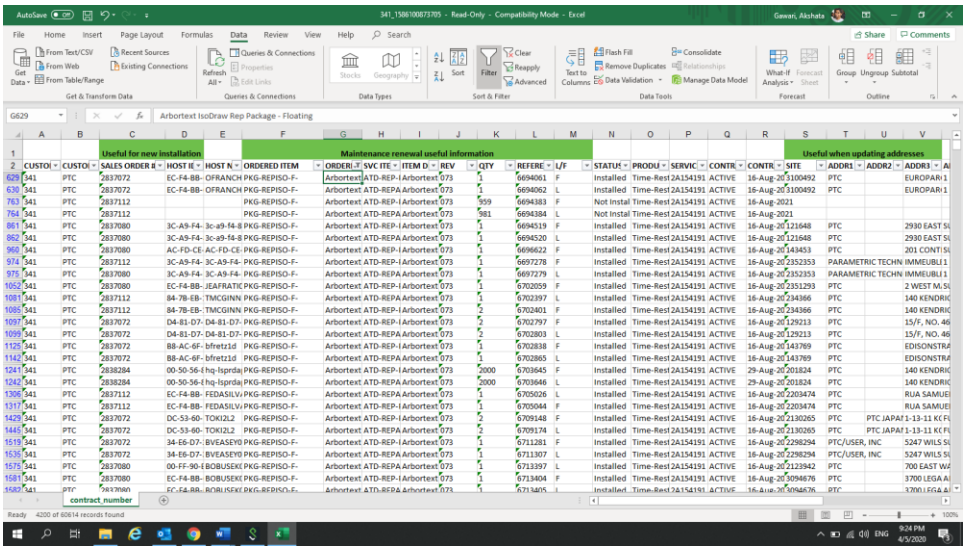
5. **Licenses report on Host ID : 00-03-FF-1C-A3-2A**



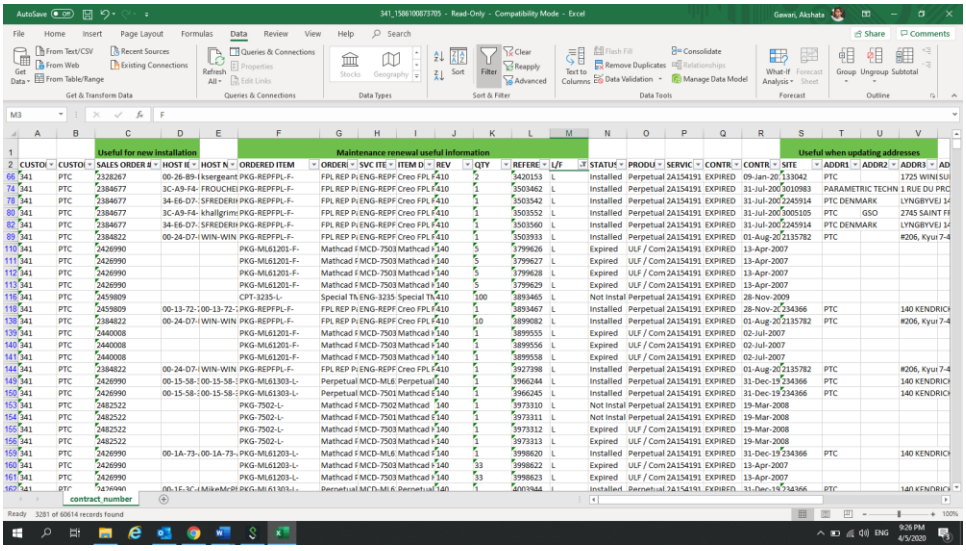
6. **Licenses for particular ordered item code: DVP-2387-F-**



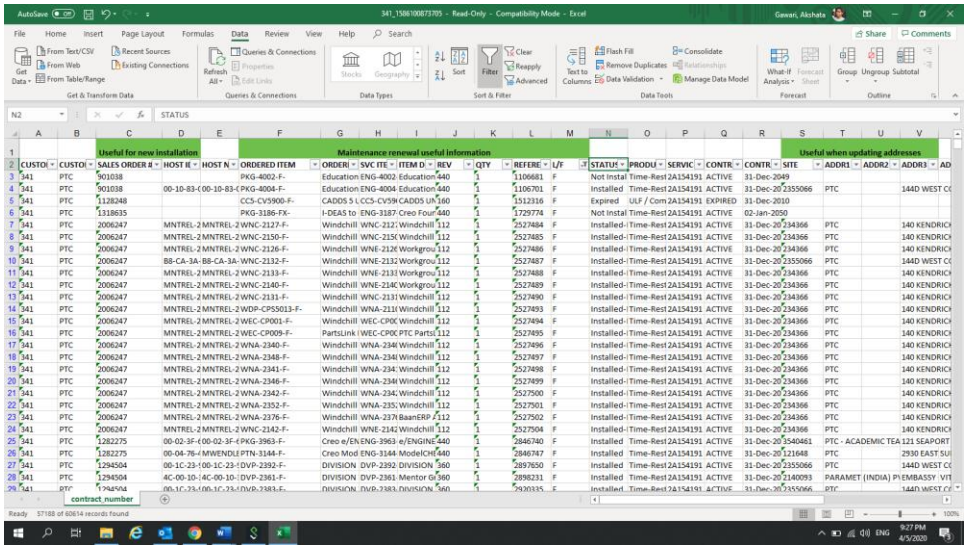
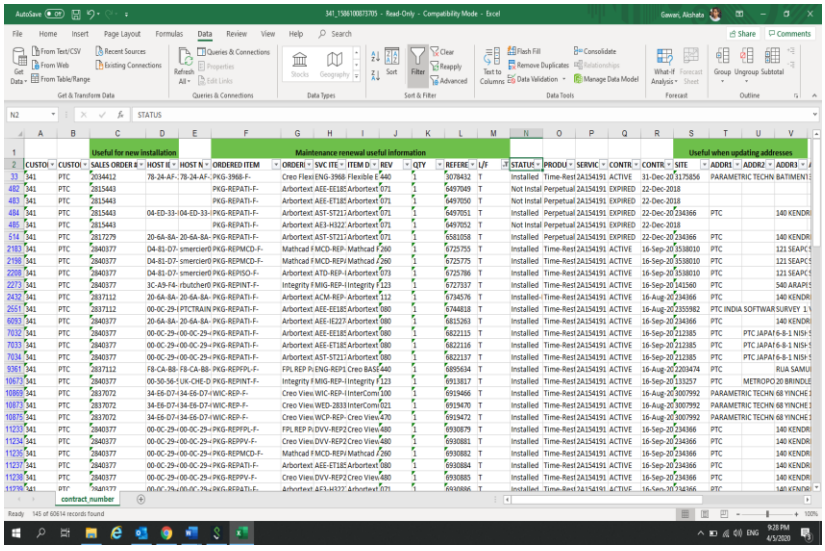
7. **Licenses for particular ordered item description - Arbortext IsoDraw Rep Package - Floating**



8. **Licenses for particular license type – L (Lock)**



9. **Licenses for particular license type – F (Floating)**



10. **Licenses for particular license type – T (Temporary Floating)**
11.