

**PROJECT REPORT**

**ON**

**Unified Collaboration Tool**

**FOR**

**Persistent Systems Ltd.**

**BY**

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**(IMCC), PUNE-411029**

**2012-13**

# Acknowledgement

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Shriharsh Ambhore

## INDEX

<b>Chapter</b>	<b>Title</b>	<b>Page Number</b>
	<b>Chapter1 : Introduction</b>	
1.1	Company Profile	1
1.2	Existing System and Need of System	3
1.3	Scope of Work	6
1.4	Operating Environment Hardware & software	8
1.5	Detail Description of technology Used	10
	<b>Chapter 2: Proposed System</b>	
2.1	Proposed System	18
2.2	Objectives of system	19
2.3	User Requirements	20
	<b>Chapter 3: Analysis and Design</b>	
3.1	Object Diagram	21
3.2	Class Diagram	22
3.3	Use Case Diagrams	23

<b>Chapter</b>	<b>Title</b>	<b>Page Number</b>
3.4	Activity Diagrams	30
3.5	Sequence Diagrams	36
3.6	Entity Relationship Diagram	41
3.7	Module Hierarchy Diagram	42
3.8	Component Diagram	43
3.9	Deployment Diagram	44
3.10	Module Specifications	45
3.11	User Interface Design	46
3.12	Table Specifications	54
3.13	Test Procedure and Implementation	66
	<b>Chapter 4:User Manual</b>	
4.1	User Manual	82
4.2	Operational Manual	93
4.3	Program Specification	94
	<b>Drawbacks and Limitations</b>	96
	<b>Proposed Enhancements</b>	97
	<b>Conclusion</b>	98
	<b>Bibliography</b>	

<b>Chapter</b>	<b>Title</b>	<b>Page Number</b>
	<b>Annexures</b>	
	Annexure 1: User Interface Screens With Data	
	Annexure 2: Output Reports With Data	
	Annexure 3: Sample Program Code	

**CHAPTER 1**  
**INTRODUCTION**

## **1.1 Company Profile:**

### **Persistent Overview:**

**Persistent System Limited** is established in 1990 by Dr. Anand Deshpande. Persistent is a global company specializing in software product and technology innovation. For more than two decades, Persistent has partnered closely with pioneering start-ups, innovative enterprises and the world's largest technology brands. We have utilized our fine-tuned product engineering processes to develop best-in-class solutions for customers in technology, telecommunication, life science, healthcare, banking, and consumer products sectors across North America, Europe, and Asia.

Thanks to extensive technology product expertise, today, customers also turn for technology strategy and consulting services. Persistent customers benefit from deep knowledge of next-generation Cloud, BI & Analytics, Collaboration as well as Mobility-based computing platforms. By leveraging our strategic technology partnerships, IP-based accelerators, and agile development processes companies can

successfully navigate increasing time-to-market pressures and deliver the highest quality solutions, faster and more cost effectively. Persistent's global team is made up of the industry's best and brightest software engineers and technology consultants whose expertise spans from niche technologies, to the latest technologies and built-to-scale enterprise applications. Our team members share a passion for pushing the limits of the technology frontier and an unwavering commitment to quality, efficiency and innovation. That is why Persistent customers continue to partner with us across companies, careers and technology changes, and why in our third decade, we are still innovating with the market leaders we once helped launch.

**Persistent Systems Financial Investors include:**

- Norwest Venture Partners
- Gabriel Venture Partners
- Intel Capital
- Hewlett-Packard
- IBM



## **1.2 Existing system and need for system**

### **Existing system:**

Numbers of meetings are scheduled within an organization for various purpose right from requirement gathering to delivering the product .

On a monthly basis organization spends an extraordinary amount of money on travel expenses, and its staff complained of low productivity due to the hours spent on the road travelling. The rise in gas prices and traffic congestions added to their frustrations.

More over organizations have their well qualified employees scattered at different geographical locations. This made receiving help and advice from staff at other branch offices difficult and time consuming.

Conveying the findings of the meetings to the person who could not attend the meeting is a cumbersome task.

Also if the employee is attending the meeting for the first time he is unaware of the results of previous meetings.

Maintaining the findings of every meeting consumes lot of time as lots of paper work and files are associated with the meetings. Considerable amount of time is wasted is planning the meetings and its agendas.

## **Need for system:**

In order to eliminate the drawbacks of the existing system this collaboration tool is developed.

The proposed system is very useful In conducting Meetings in an efficient manner and eliminating the geographical barriers.

This tool has following advantages over the existing system

- Scheduling meetings on demand
- More efficient person to person interaction
- Participation in meeting irrespective of his/her geographical location
- Recordings of meetings
- Sharing the necessary documents with the participants of meeting
- Documents associated with meetings
- Travel time and cost reduction

### **1.3 Scope of Work**

The project will use audio/video conferencing techniques to help team stay connected and provide easy access to documents and information. This will make employee interaction and their engagement more interesting.

All tasks can be completed under one single platform.

The collaboration tool has following features.

#### **Project Modules:**

- Document Sharing during the meeting-  
Employees can share the necessary related documents in pdf,docx,docetc format by selecting the participants during the meeting.
- Online meeting with audio/video chat-  
Employees can arrange meetings with other employees throughout the organization.

- Recording the meeting-

Recording the meetings and storing the recording in some repository so that it can be used / accessed by employee in order to fulfil future needs.

- Creating ,Scheduling and launch of meetings-

Scheduling meetings and inviting the attendees.

Sharing the calendar events with your contacts.

- Document repository-

A document repository containing the related documents which can linked with the meeting.

- Instant messenger-

Instant messenger allows the employees to enter their valuable comments during the meetings.

## **1.4 Operating Environment –**

### **Hardware and Software**

#### **Server Side:**

##### **Hardware**

- Processor: Core-i3
- RAM:Minimum 4GB
- Hard Disk: Minimum 40 GB

##### **Software**

- Windows Server 2003
- MySql
- Red5 Streaming Server
- Imagemagick

#### **Client Side:**

## **Hardware**

- Processor: Core2Duo
- RAM: 2GB
- Hard Disk : 10 GB
- Web Camera
- Headsets
- Speakerphones

## **Software**

- Windows XP and onwards
- Internet Explorer 8& onwards or any other flash supported web browser ,

## **1.5 Detailed Description of Technology Used**

### **Red5 Media Server:**

Red5 Media Server 1.0 delivers a powerful video streaming and multi-user solution to the Adobe Flash Player and other exciting client technologies. Based on Java and some of the most powerful open source frameworks, Red5 stands as a solid solution for business of all sizes including the enterprise. Red5 includes support for the latest multi-user API's including Net Connection, Net Stream and Shared Object's while providing a powerful RTMP / Servlet implementation. In addition to support for the RTMP protocol, the application server has an embedded Tomcat Servlet container for JEE Web Applications. Application development draws additional benefits from the Spring Framework and Scope based event driven services. By using the Open Source Red5 Media Server, you are developing with a truly open and extensible platform that can be used in Video Conferences, Multi-User Gaming and Enterprise Application Software.



## **ImageMagick:**

ImageMagick is a software suite to create, edit, compose, or convert bitmap images. It can read and write images in a variety of formats (over 100) including DPX,EXR, GIF, JPEG, JPEG-2000, PDF, PhotoCD, PNG, Postscript, SVG, and TIFF. ImageMagick can resize, flip, mirror, rotate, distort, shear and transform images, adjust image colors, apply various special effects, or draw text, lines, polygons, ellipses and Bézier curves.

## **JAVA:**

JAVA is the foundation for virtually every type of networked Application and is the global standard for developing and Delivering mobile applications, games, Web-based contentand enterprise software. With more than 9 million developers , Java enables you to efficiently develop, deploy and Useexciting applications and services.From laptops to Datacenters, game consoles to scientific supercomputers, cell phones to the Internet, Java is everywhere!

The Key considerations of JAVA summed up are

- **Simple:**

Java was designed to be easy for the professional programmer to learn and use effectively.

Assuming that you have some programming experience, you will not find java hard to master. If you already understand the basic concepts of object-oriented programming , learning java will be even easier.

- **Object-Oriented:**

Although influenced by its predecessors, JAVA was not designed to be source- code compatible with any other language. This allowed the java team the freedom to design with a blank slate. One outcome of this was a clean, usable , pragmatic approach to objects. The object model in java is simple and easy to extend, while primitive types, such as integers, are kept as high performance non objects.

- **Robust:**

The multiplatform environment of the Web places extraordinary demands on a program, because the program must execute reliably in a variety of systems.

Thus the ability to create robust programs was given a high priority in the design of JAVA. To gain reliability, Java restricts you in a few key areas to force you to find your mistakes early in program development.

At the same time, Java frees you from having to worry about many of the most common causes of programming errors. Because Java is a strictly typed Language, it checks your code at compile time. However, it also checks your code at run time.

- **Multithreaded:**

Java was designed to meet the real-world requirement of creating interactive, networked programs. To accomplish this, Java supports multithreaded programming,

which allows you to write programs that do many things simultaneously. The Java run-time system comes with an elegant yet sophisticated solution for multiprocess synchronization that enables you to construct smoothly running interactive systems.

- **Distributed:**

Java is designed for the distributed environment of the Internet because it handles TCP/IP protocols. In fact, accessing a resource using a URL is not much different from accessing a file. Java also supports *Remote Method Invocation (RMI)*. This feature enables a program to invoke methods across a network.

- **Architecture-Neutral:**

A central issue for the Java designers was that of code longevity and portability. One of the main problems facing programmers is that no guarantee exists that if you write a program today, it will run tomorrow—even on the

same machine. Operating system upgrades, processor upgrades, and changes in core system resources can all combine to make a program malfunction. The Java designers made several hard decisions in the Java language and the Java Virtual Machine in an attempt to alter this situation. Their goal was “write once; run anywhere, any time, forever.”

### **MySQL: Database Management System**

MySQL is a relational database management system(RDBMS) that runs as a server providing multi-user access to a number of databases. The MySQL development project has made its source code available under the terms of the GNU General Public License, as well as under a variety of proprietary agreements. MySQL is owned and sponsored by a single for-profit firm, the Swedish company MySQL AB, now owned by Oracle Corporation.

My Structured Query Language (MySQL) is the language used to manipulate relational databases. MySQL is tied very closely with relational model. In the relational model, data is stored in structures called relations or tables. MySQL is a database server. MySQL is ideal for both small and large applications. MySQL supports standard SQL. MySQL compiles on a number of platforms MySQL statements are issued for the purpose of: Data definition: Defining tables & structures in the database (DDL used to create, alter and drop schema objects such as tables and indexes) Data Manipulation: Used to manipulate the data within those schema objects (DML Inserting, Updating, Deleting the data, & Querying the databases)

## **OpenLaszlo:**

**OpenLaszlo** is an open source platform for the development and delivery of rich Internet applications

The OpenLaszlo platform consists of the LZX programming language and the OpenLaszlo Server.

LZX is an Extensible Markup Language (XML) and JavaScript description language similar in spirit to XUL, MXML, and Extensible Application Markup Language (XAML). LZX enables a declarative, text-based development process that supports rapid prototyping and software development best practices. It is designed to be familiar to traditional web application developers who are familiar with HTML and JavaScript.

Open Laszlo Server is a Java servlet that compiles LZX applications into executable binaries for targeted run-time environments.

**CHAPTER 2**  
**PROPOSED SYSTEM**



## **2.1 Proposed System**

Now days, computer is used in a day to day life. Last few years have shown us that use of computer based systems in business has helped business to grow with fewer efforts.

The proposed system consist of following modules to make the entire process more efficient ,less time consuming and more productive.

- Audio/Video conferencing
- Document Sharing
- Meeting Recording
- Creating ,Scheduling meeting
- Document Repository
- Instant messenger

## **2.2 Objectives**

The main objective is to help the officials to stay connected and provide a easy access to the documents, and information.

The other objective of the system is to streamline the entire existing system in terms of time and cost and make the management well equipped with all reports and current data which will be useful in quick decision making and better management.

The other objective also includes maintaining historical data which could be used for future processing.

- Maintains accuracy of Data.
- Error free Scheduling of meetings
- An Efficient and economical option

## **2.3 USER REQUIREMENTS:**

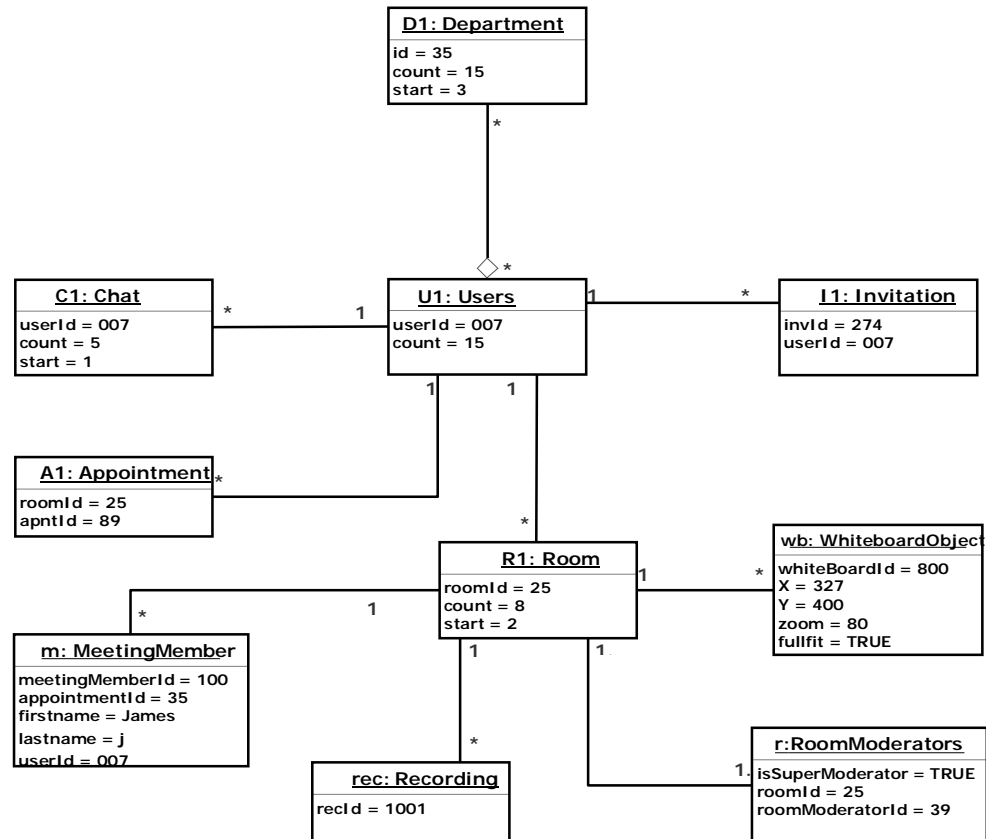
Here organization's employees are the users of the system, therefore requirement will play important role in the development of the system. Therefore the requirements of employees and the organizations are as follows:-

Requirement Overview:-

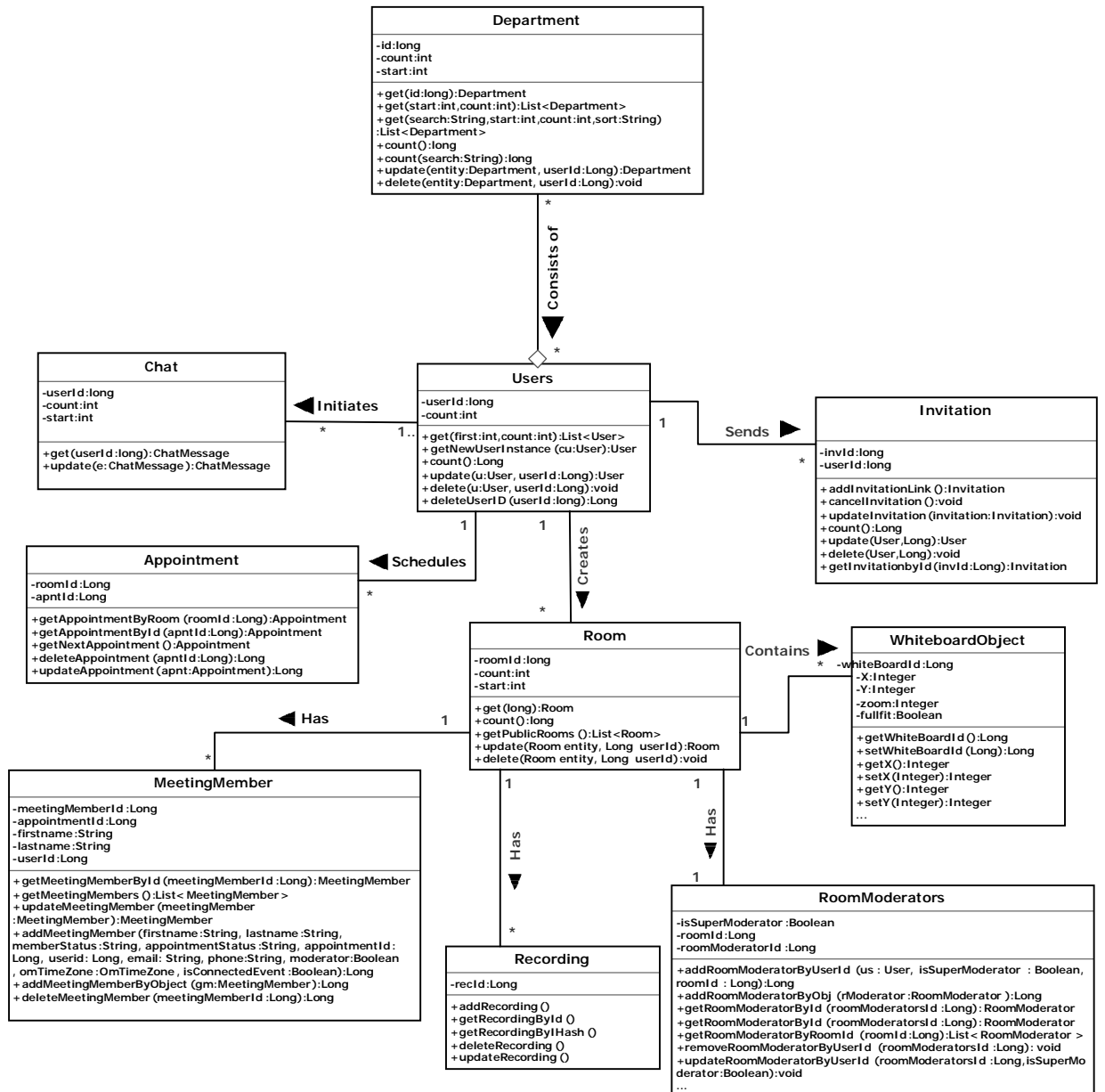
- A centralised database should be maintained.
- System should be user friendly
- System should be cost effective
- System should have low maintenance
- Multiple user can access and perform their task.

**CHAPTER 3**  
**ANALYSIS & DESIGN**

### 3.1 Object Diagram:

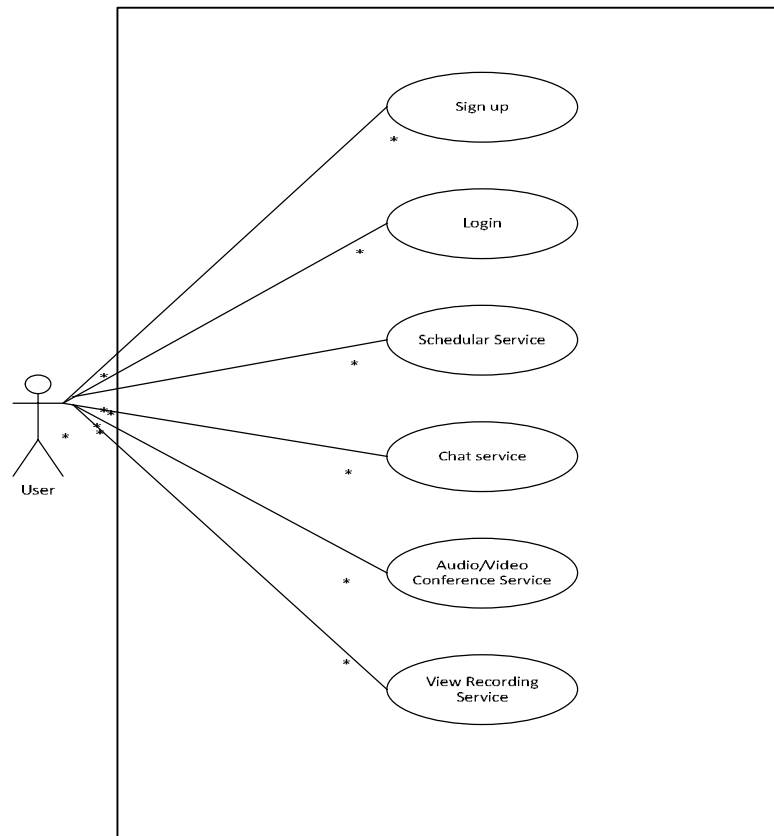


## 3.2 Class Diagram

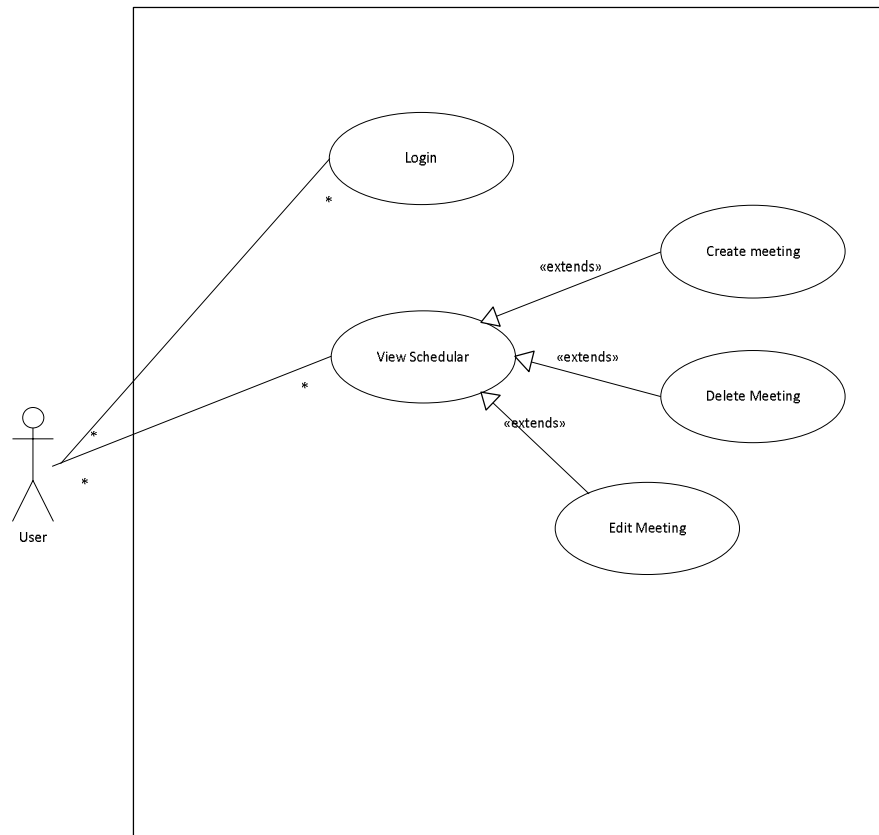


### 3.3 Use Case Diagram

Business use case diagram

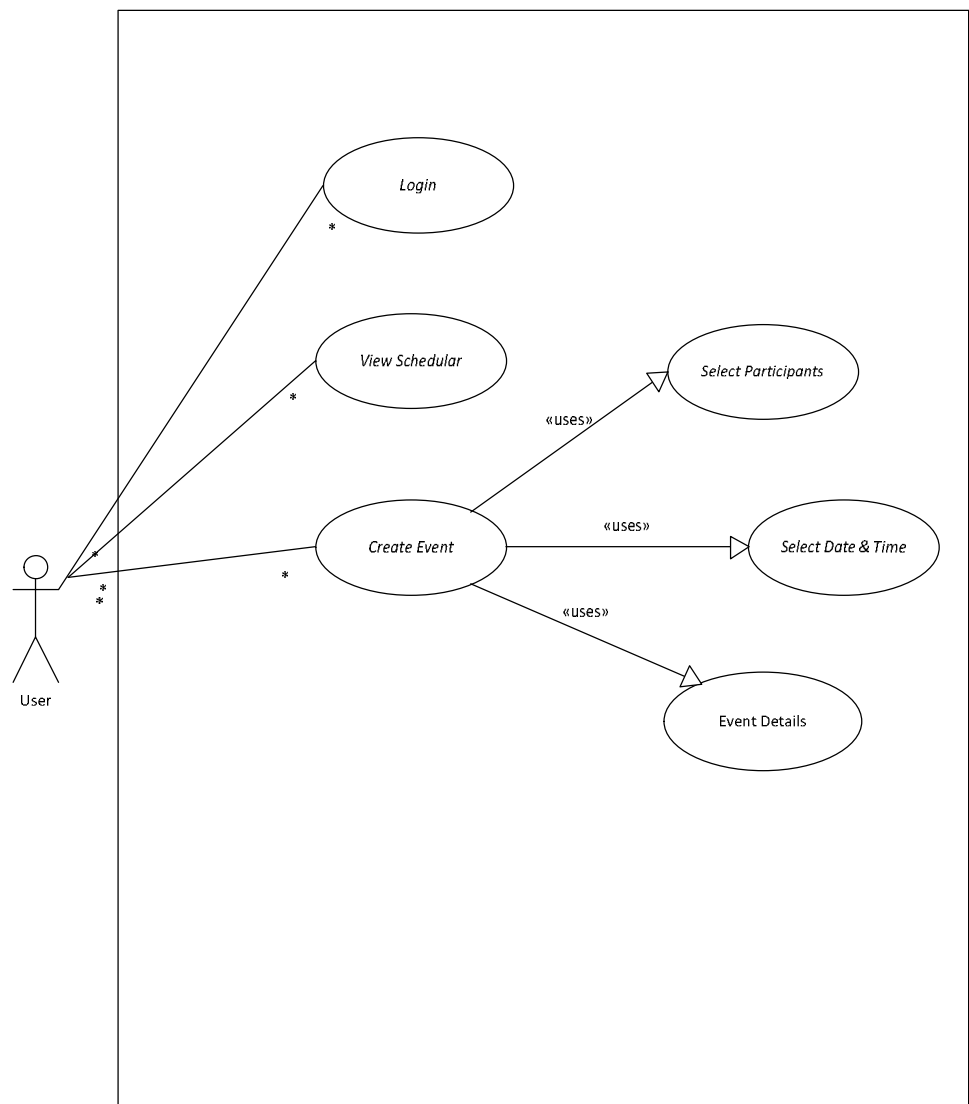


## View Meetings Use Case:

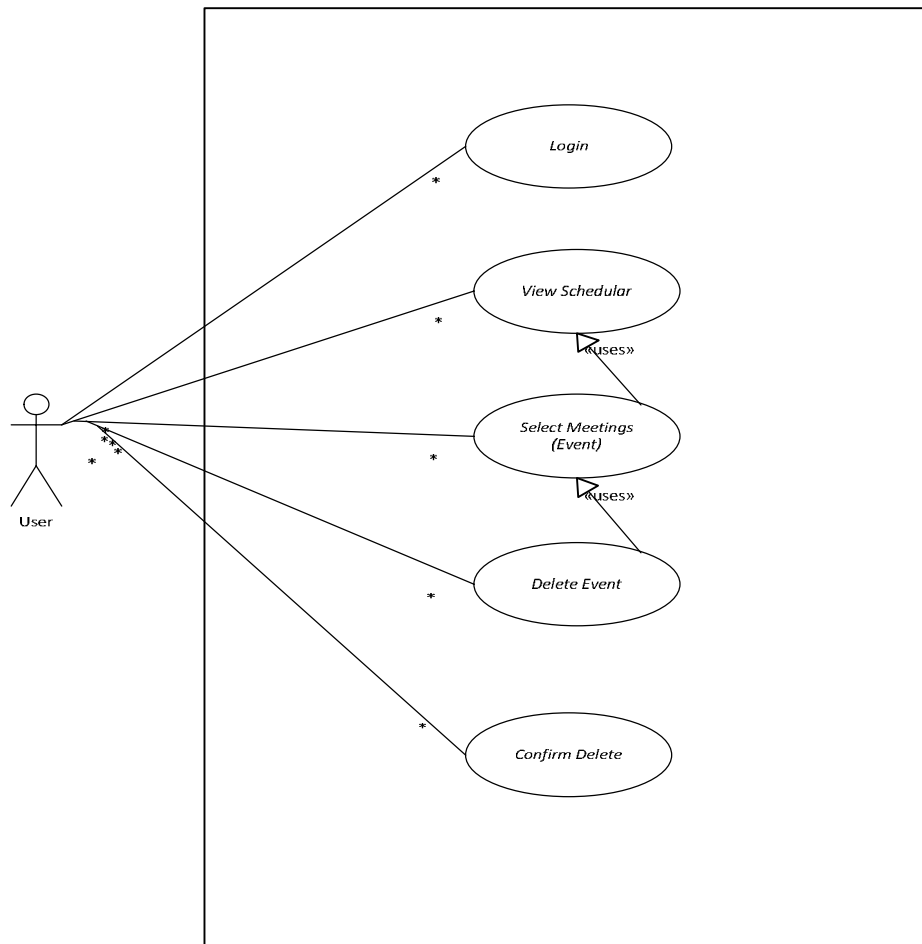




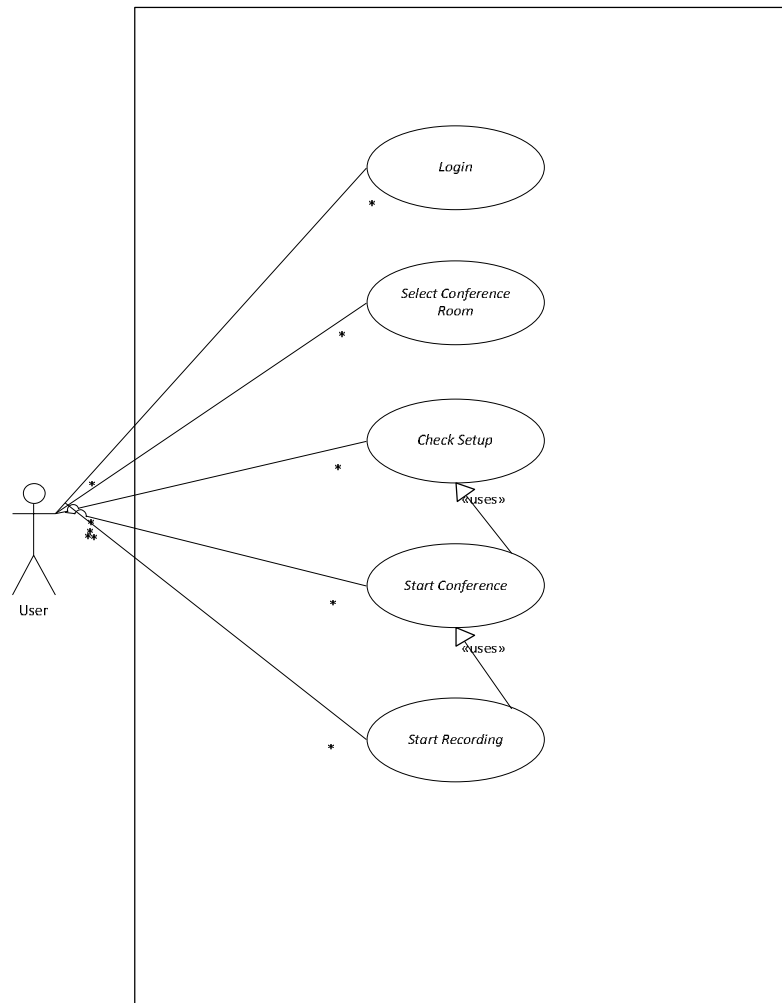
## Create meeting use case:



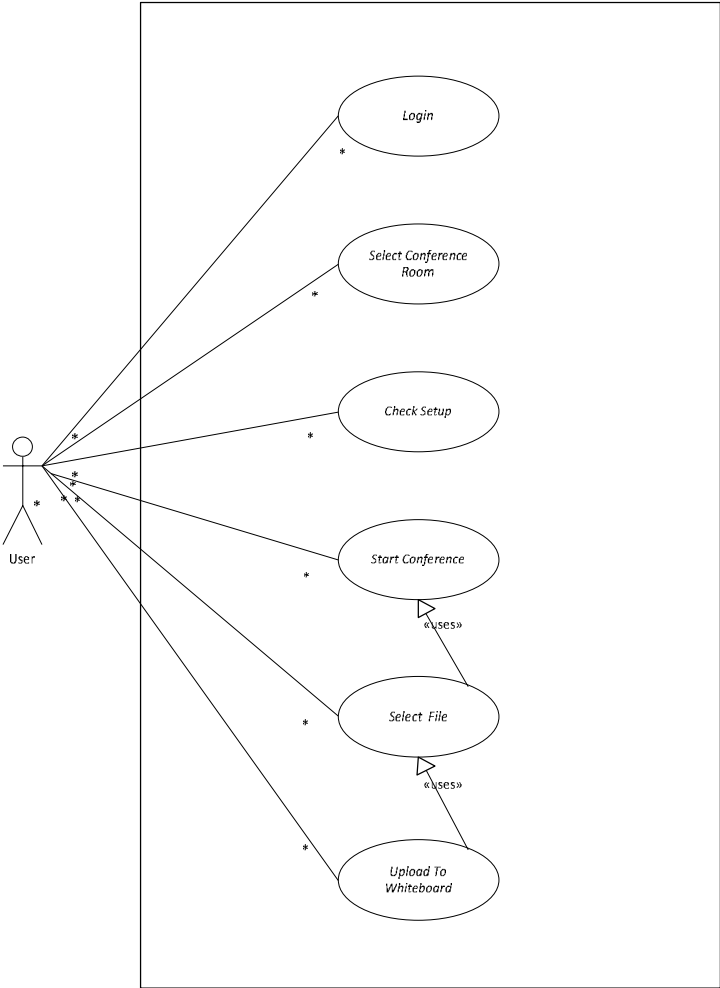
## Cancel meeting use case



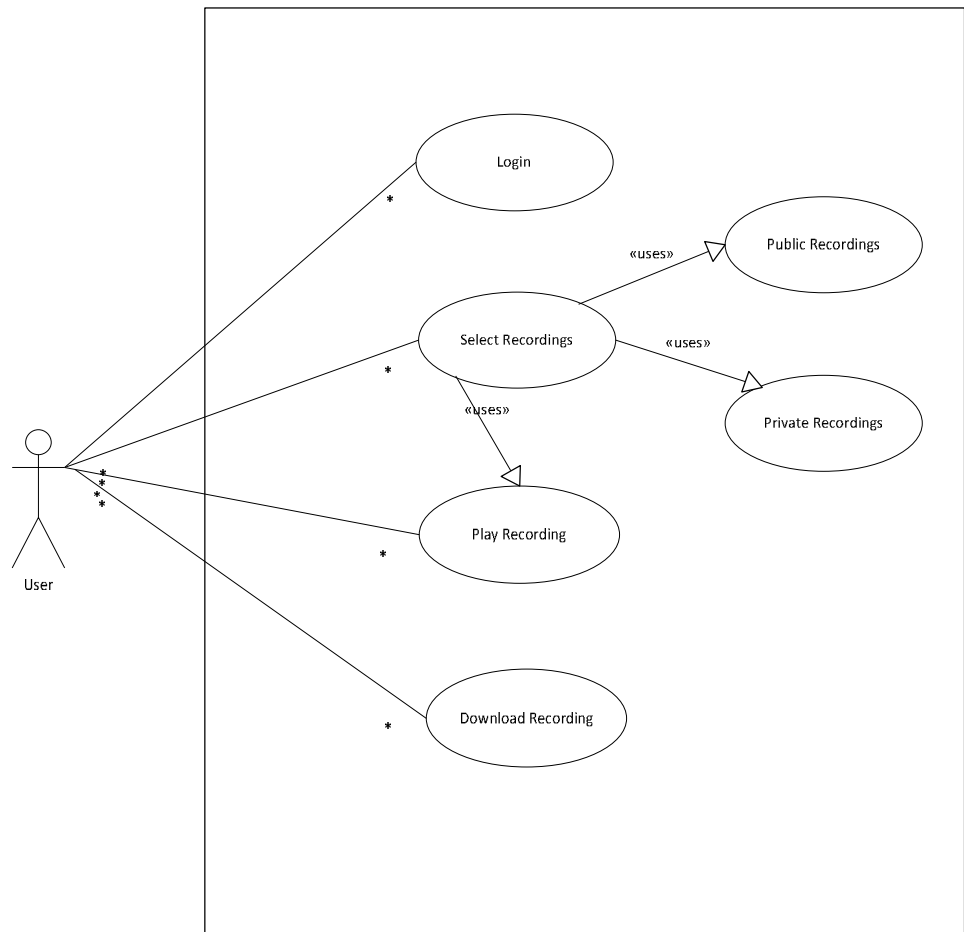
## Audio/Video conferencing use case



# Upload document use case:

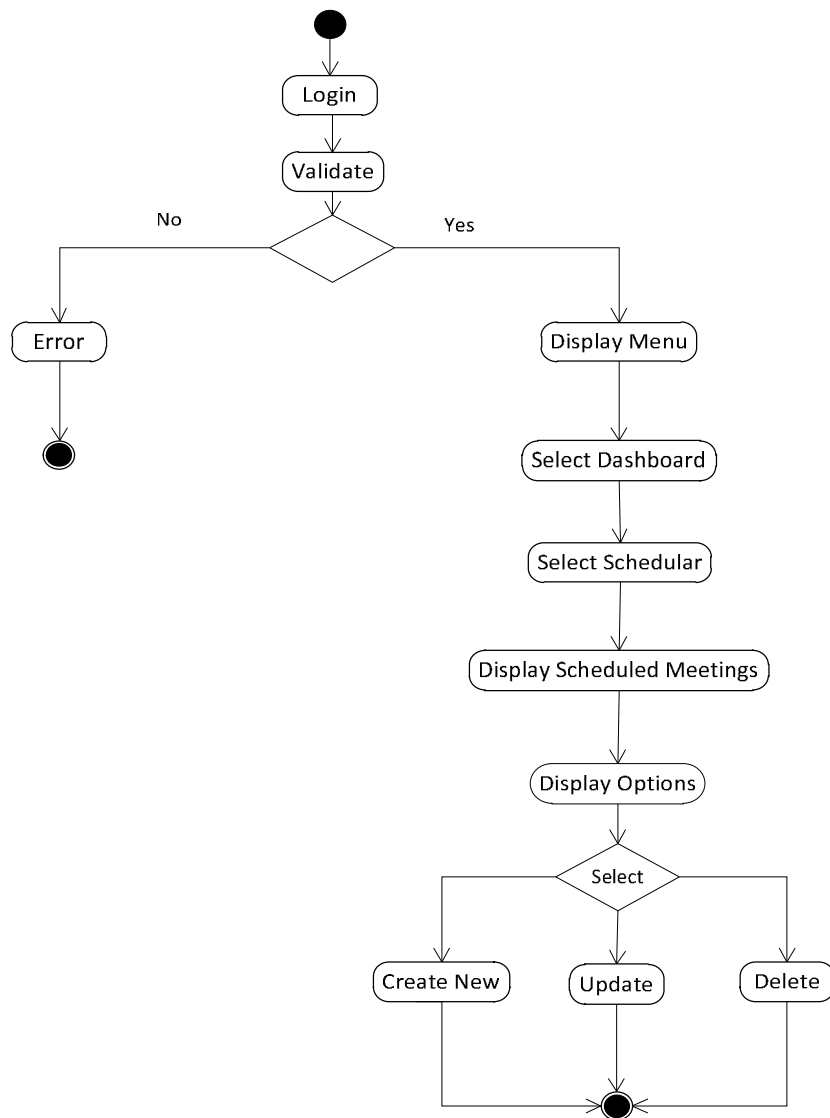


## View Recording Use Case:

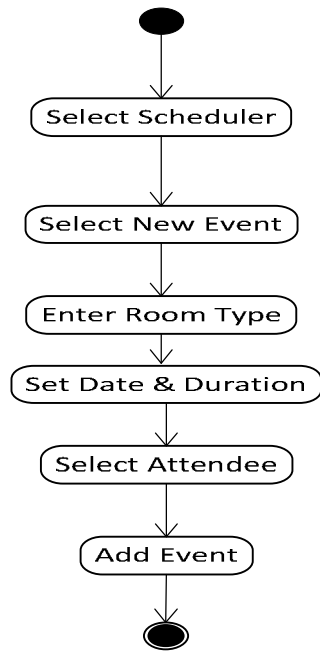


### 3.4 Activity Diagram

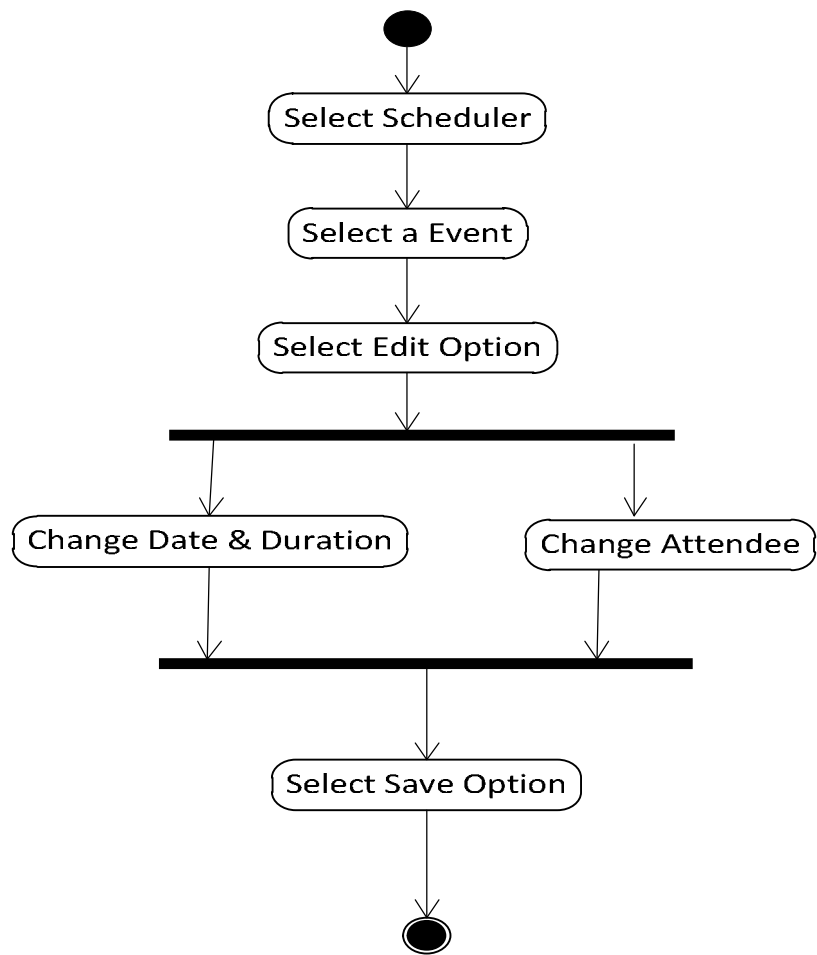
#### Activity diagram for scheduling meeting



## Activity diagram for creating meeting

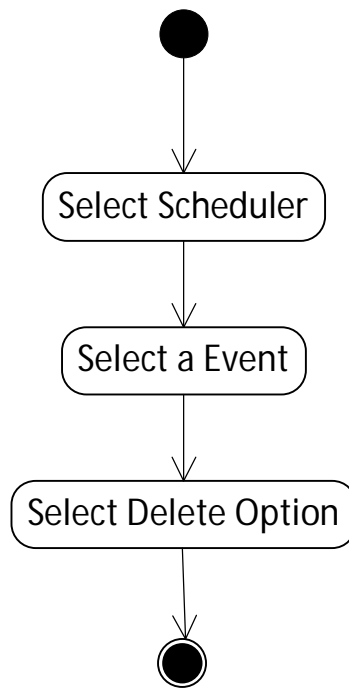


## Activity diagram for editing meeting

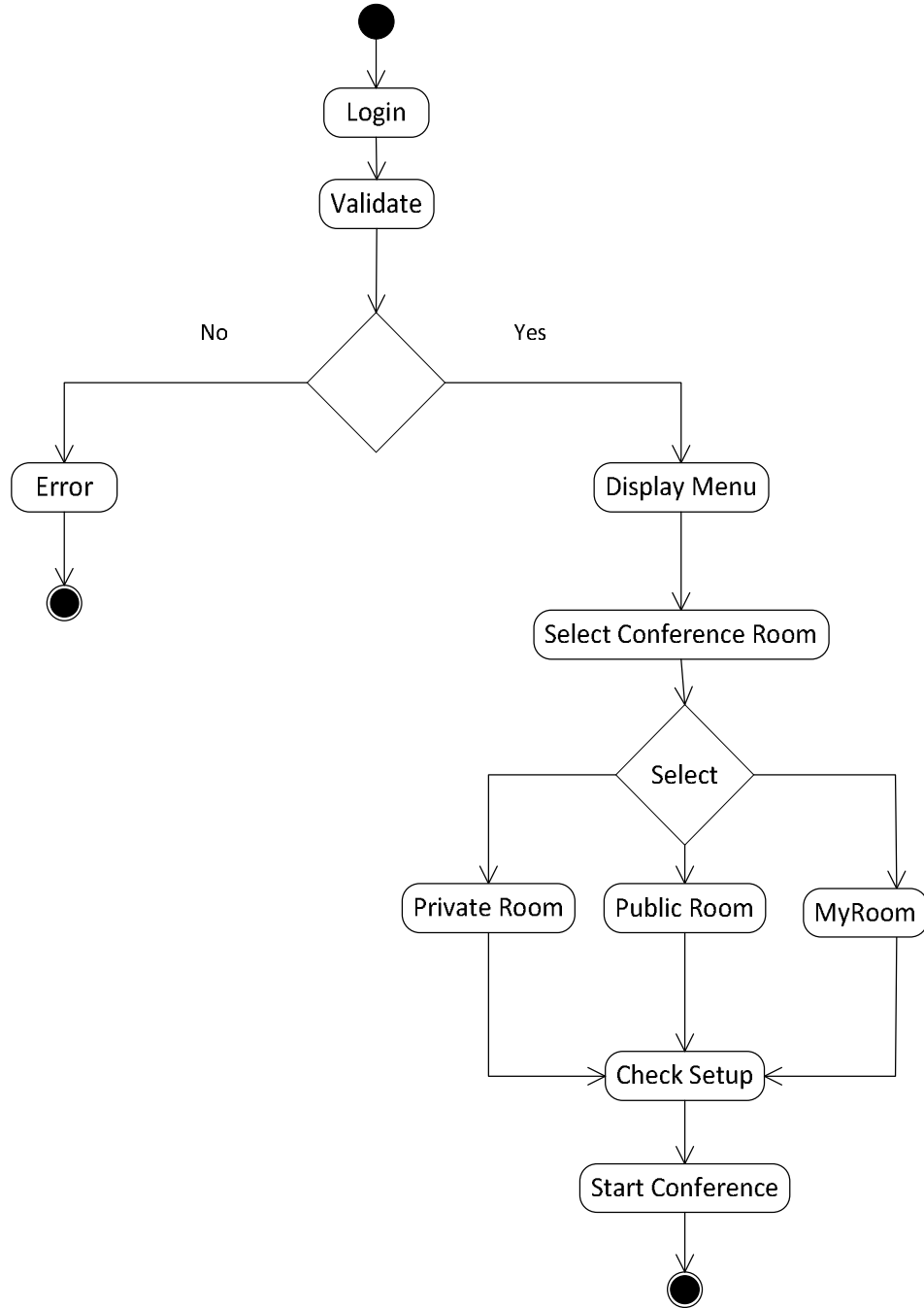




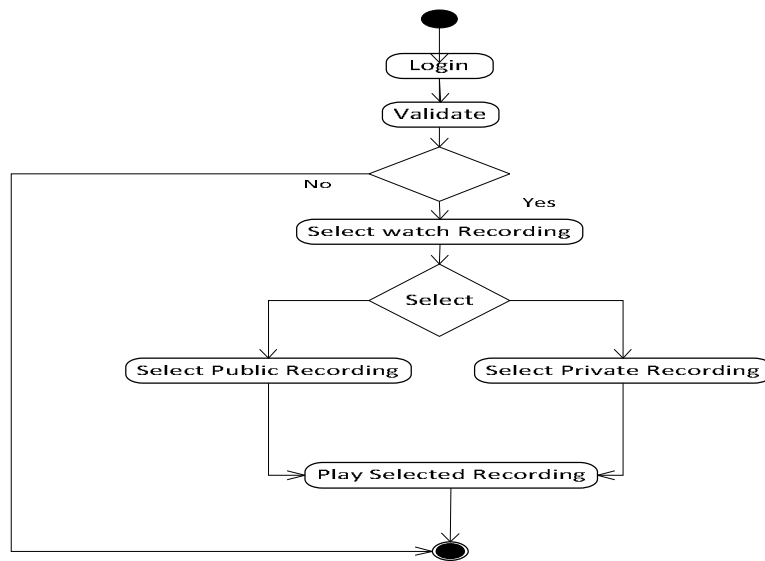
## Activity diagram for deleting meeting



## Activity diagram for audio/video conference

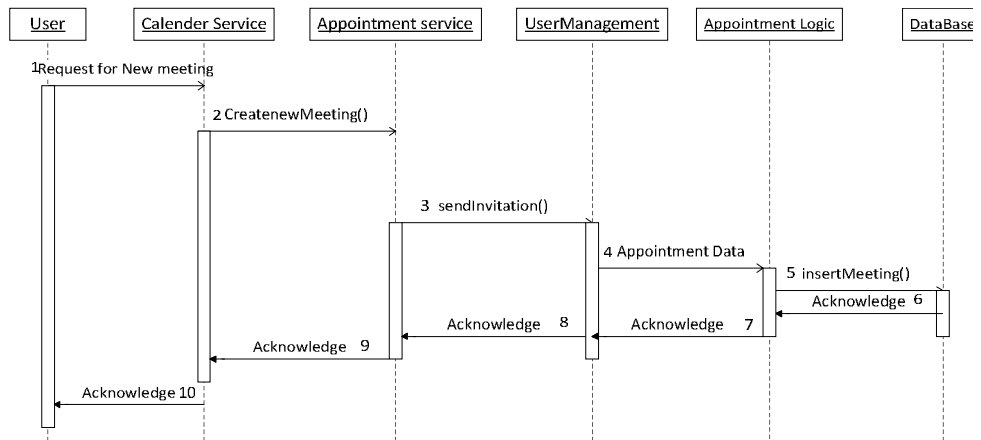


## Activity Diagram for view recoding

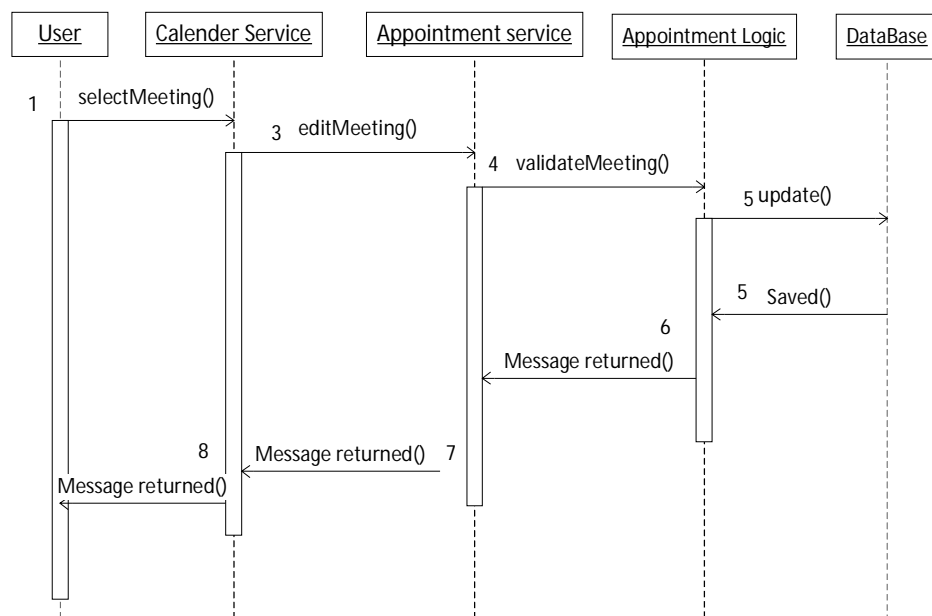


### 3.5 Sequence Diagram:

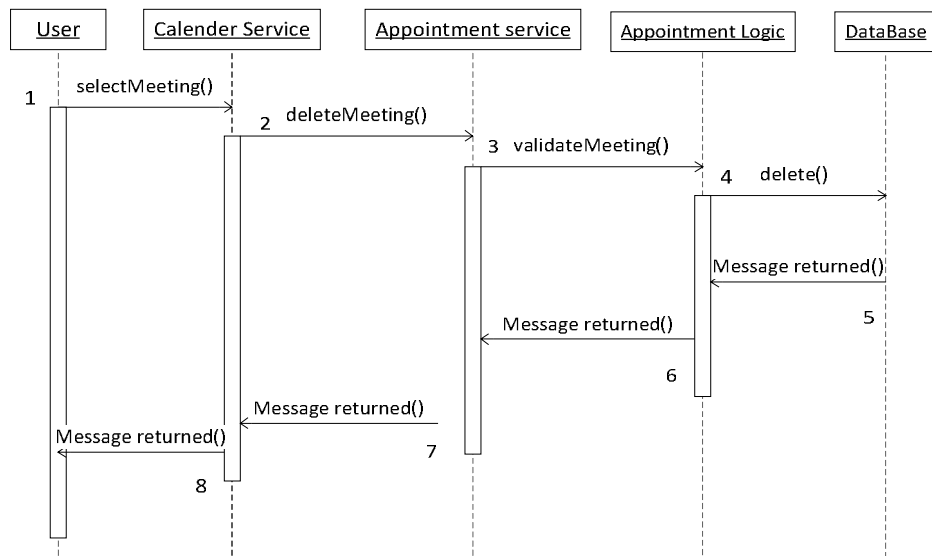
Sequence Diagram for creating meeting



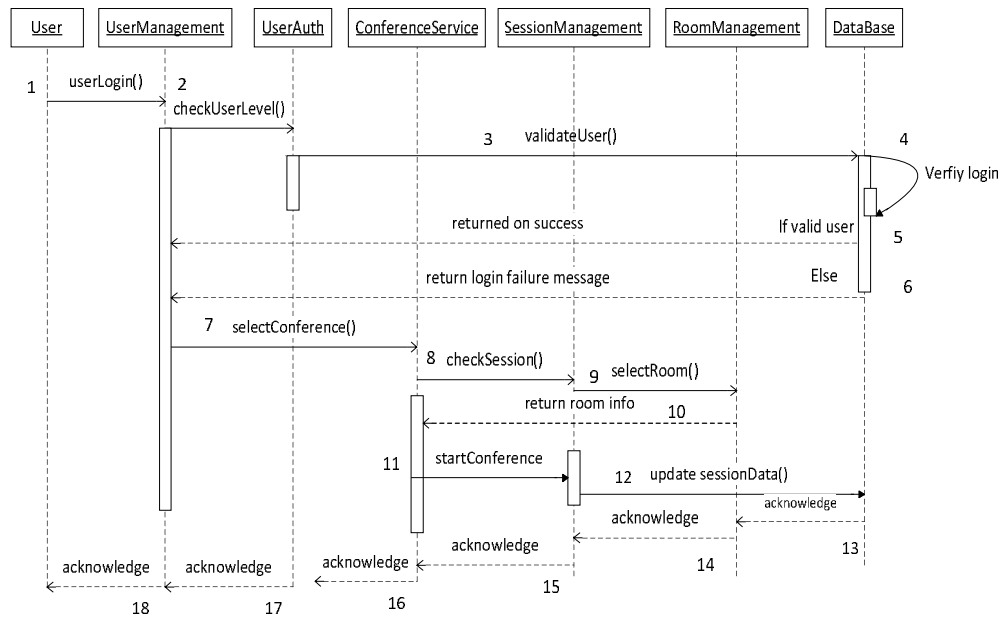
### Sequence Diagram for editing meeting



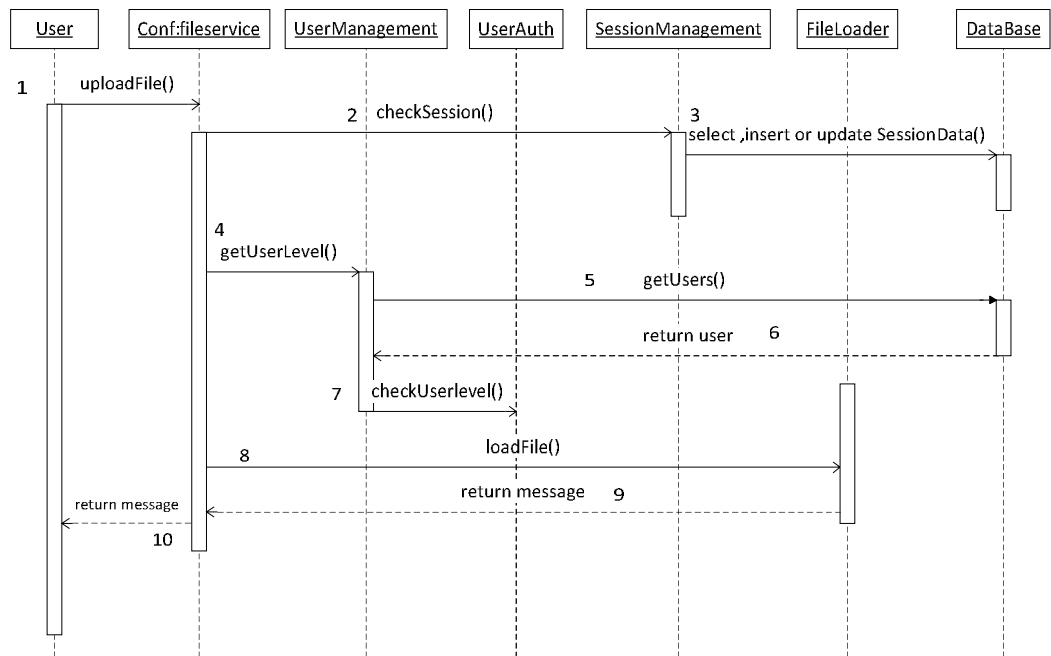
### Sequence Diagram for deleting meeting



### Sequence diagram for Audio/Video Conferencing

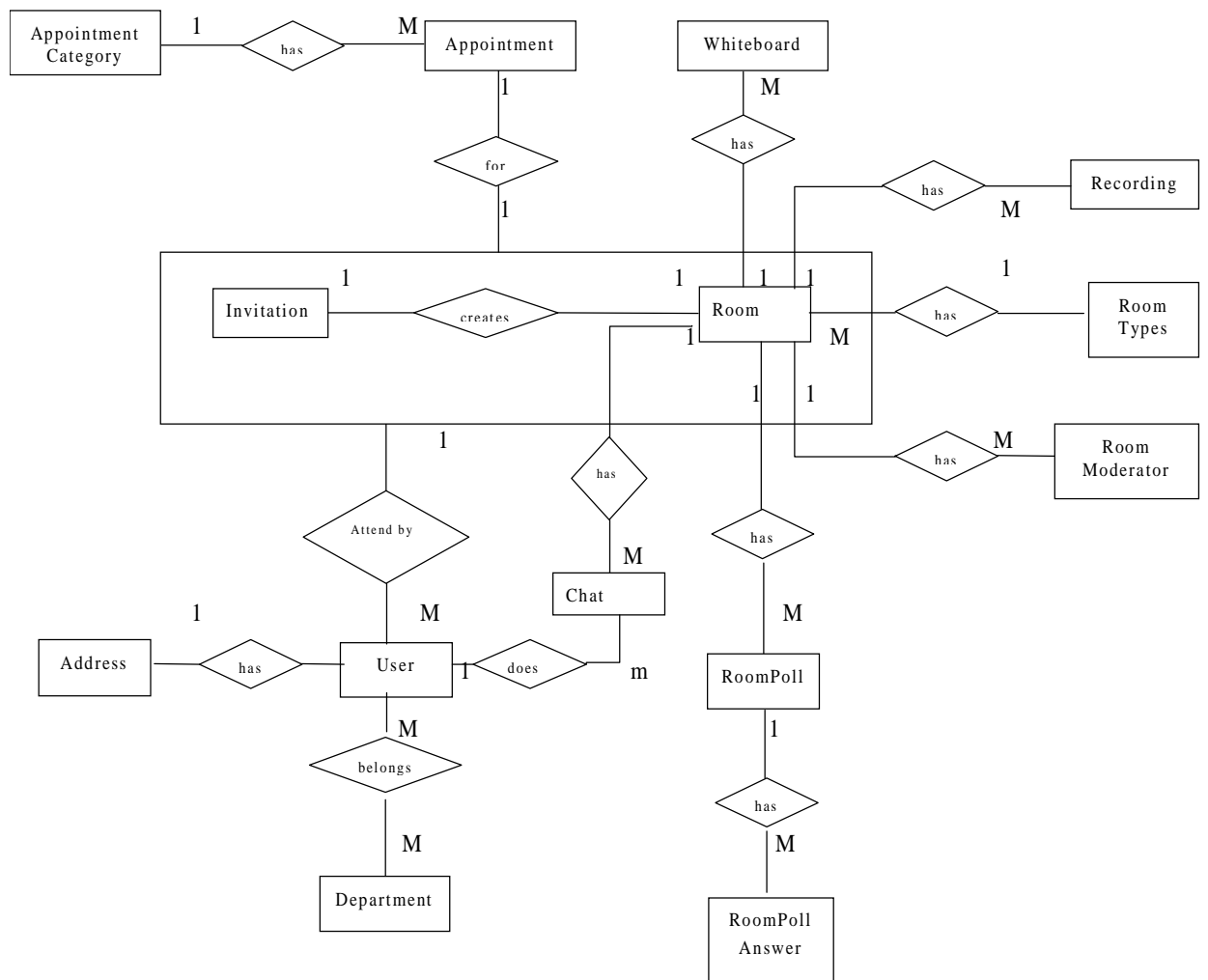


### Sequence Diagram for uploading document

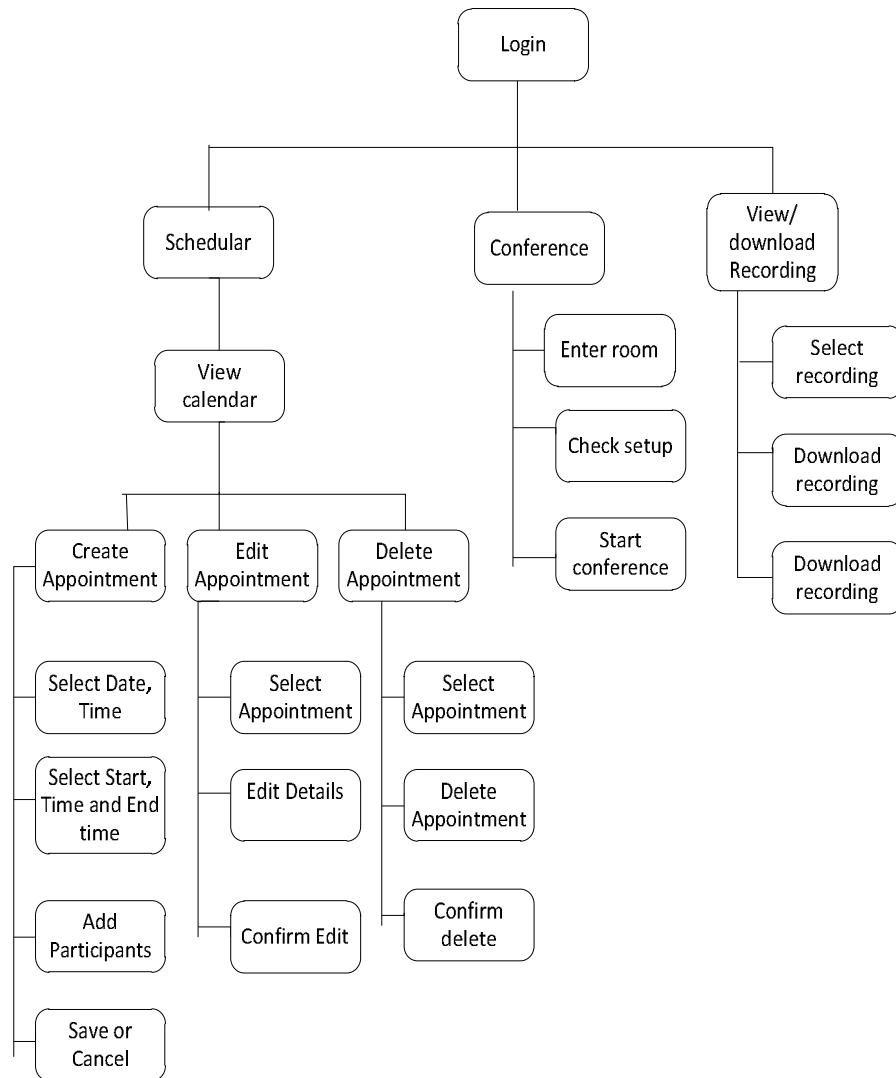




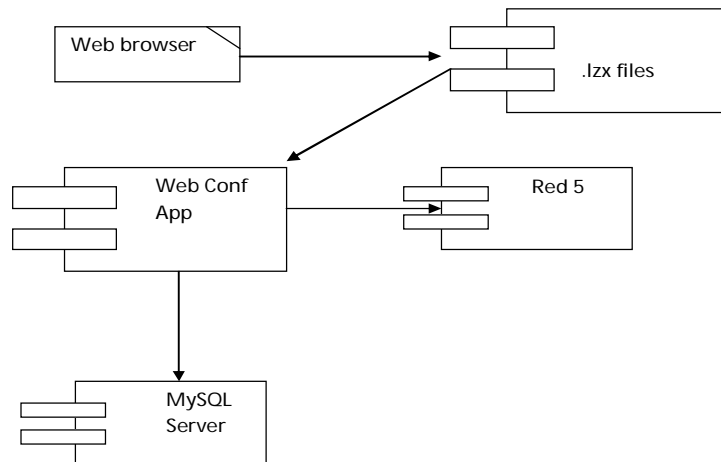
### 3.6 Entity relationship diagram



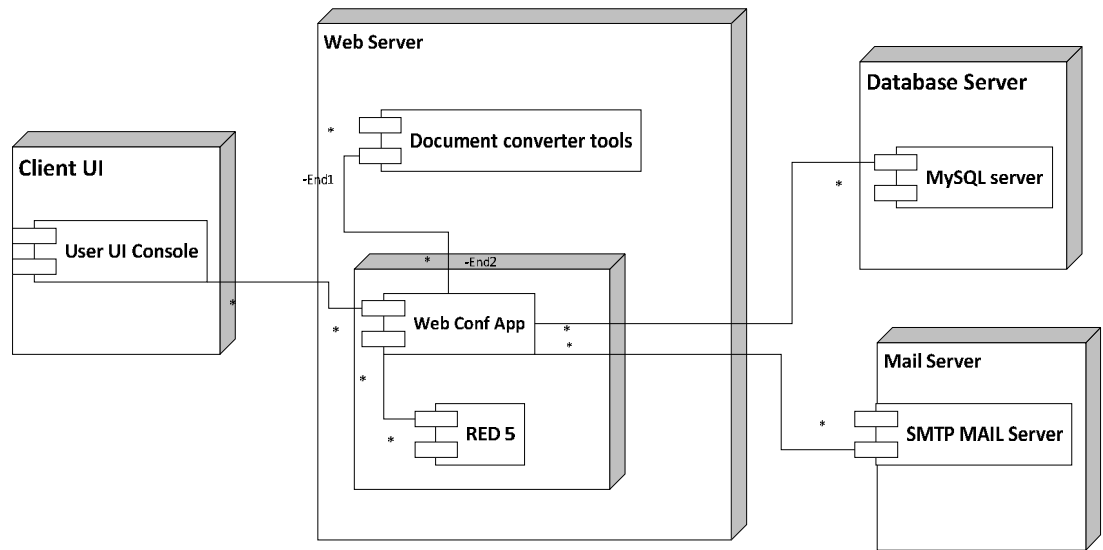
### 3.7 Module hierarchy diagram



### 3.8 Component Diagram



### 3.9 Deployment diagram



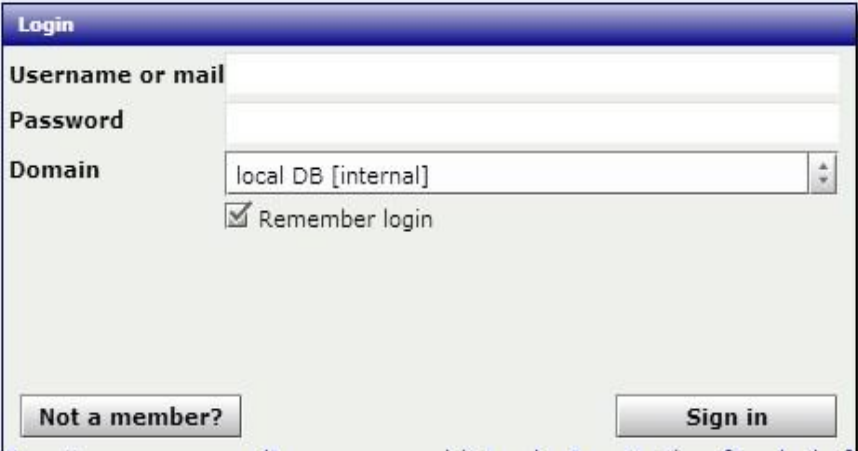
### **3.10 Module Specification**

Unified collaboration tool has following modules:

- Document Sharing during the meeting-  
Employees can share the necessary related documents in pdf,docx,docetc format by selecting the participants during the meeting.
- Online meeting with audio/video chat-  
Employees can arrange meetings with other employees throughout the organization.
- Recording the meeting-  
Recording the meetings and storing the recording in some repository so that it can be used / accessed by employee in order to fulfil future needs.
- Creating ,Scheduling and launch of meetings-  
Scheduling meetings and inviting the attendees.  
Sharing the calendar events with your contacts.
- Instant messenger-Instant messenger allows the employees to enter their valuable comments during the meetings.

### 3.11 Input Screens:

#### Login Screen



The image shows a screenshot of a login window titled "Login". The window contains the following elements:

- Username or mail:** A text input field.
- Password:** A password input field.
- Domain:** A dropdown menu with "local DB [internal]" selected.
- Remember login
- Not a member?:** A button at the bottom left.
- Sign in:** A button at the bottom right.

## Register User:

The image shows a 'Sign up' registration form with the following fields and options:

- First name:
- Surname:
- Username:
- Password:
- Re-enter password:
- Email address:
- Timezone:
- Country:
- Language:

Buttons:

## Create Appointment:

The screenshot shows a web application interface with a calendar and a modal dialog for creating a new event. The calendar on the left is for April 2013, with the date 13.04.2013 00:45 selected. The modal dialog, titled 'Event details', contains the following fields and options:

- Title:** New Event
- Date:** 13.04.2013
- Start:** 00:30
- End:** 01:30
- Notification type:** (empty dropdown)
- Room type:** conference (1-25 users)
- Password protected:**
- Password:** (empty text field)
- Attendees:** (empty list area)
- Location:** (empty text field)
- Comment:** (empty text area)

At the bottom of the dialog are 'Save' and 'Cancel' buttons. A help message is visible below the 'Password protected' checkbox: 'Password protected are the links to the conference that are send to the participants when you save the calendar event, not the room! That means if you save the event multiple times but with different passwords every participant receives a new link that has a different password. But old links still work once send!'.



## Edit appointment:

The screenshot displays a web-based calendar application. At the top, there is a navigation bar with links for Home, Recordings, Rooms, and Administration. Below this, the current date and time are shown as 13.04.2013 00:49. The main area is a calendar grid for the month of April 2013. A meeting appointment is visible on April 11th, titled "meeting", with a start time of 13:30 and an end time of 14:30. A modal dialog box is open over this appointment, showing the title "meeting", the start and end times, and buttons for "Enter room", "Delete", and "Edit details".

13.04.2013 00:49

Home Recordings Rooms Administration

New Event

< << April 2013 >> >

SU MO TU WE TH FR SA

31 1 2 3 4 5 6

7 8 9 10 11 12 13

14 15 16 17 18 19 20

21 22 23 24 25 26 27

28 29 30 1 2 3 4

5 6 7 8 9 10 11

Day Week Month IST

meeting

Start 13.04.2013 13:30

End 13.04.2013 14:30

Enter room

Delete Edit details

Need help?

To setup a conference you can add a new event in the calendar

Calendar of contacts

Your contacts need to approve you first to be able to see their calendar.

## Invitation to users:

The screenshot shows a calendar application interface with a navigation bar at the top containing 'Home', 'Recordings', and 'Rooms'. The main area displays a calendar for April 2013, with a date of 13.04.2013 00:45. A 'New Event' button is visible. A dialog box titled 'Event details' is open, showing the following information:

- Title:** meeting
- Start:** 03.04.2013 09:30
- End:** 10:30
- Notification type:** (empty)
- Room type:** (empty)
- Password:** 0 - 50 of 4
- Attendees:** 2

A search window titled 'Invite People' is overlaid on the Attendees field. It contains a search bar with the text 'search intern' and a list of users:

User ID	First name	Last name	Email address
1	shriharsh	ambhore	ambhreshriharsh@gm
4	akshay	hazari	akshay.hazari@gmail.o
3	apache	open	
2	sachi	swain	

The dialog box also includes fields for 'Location' and 'Comment', and buttons for 'Add external', 'Add', 'Cancel', 'Save', and 'Cancel' at the bottom.

## Edit Profile:

localhost:5080/demo-quad/

Customize Links | Free Hotmail | Windows | Windows Media | Imported From IE | DatabaseScheme - op... | fileserve - openmeet... | organisationservice - ... | xmircm - openmeeting... | Technology/Portfoke ...

Contacts and messages | Profile | Logout | Report a bug

Home | Recordings | Rooms | Administration

User details

Password:

Re-enter password:

Title/first name:

Last name:

Timezone:   Do not show audio/video test before entering a conference [more display options ...](#)

Language:

Email address:

Phone:

Birth day:

Street/No:

Post code/Town:

Country:

Address:

Usergroup:

Upload new image

**Community settings**

Show contact data to everybody

Show contact data to contacts only

Show contact data to nobody

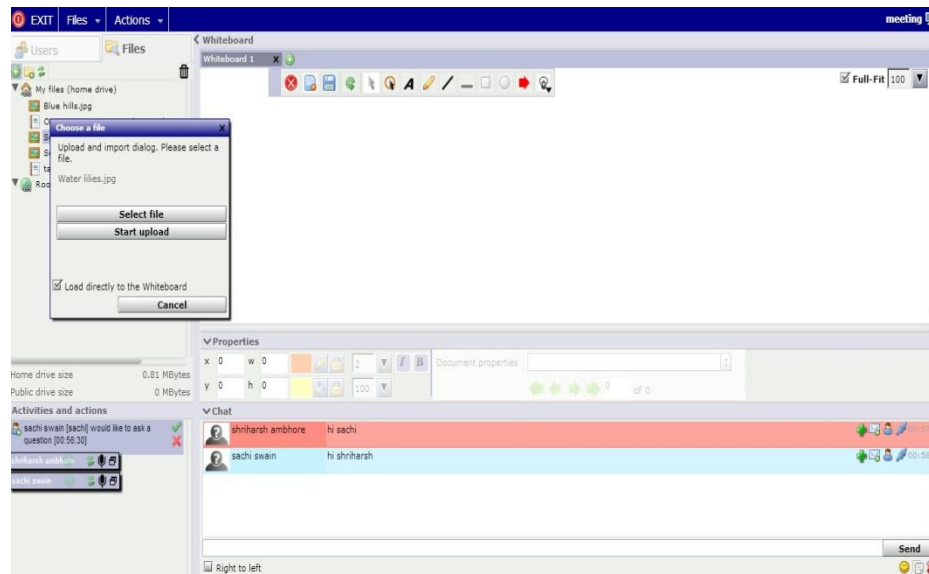
**My offerings**

**My interests**

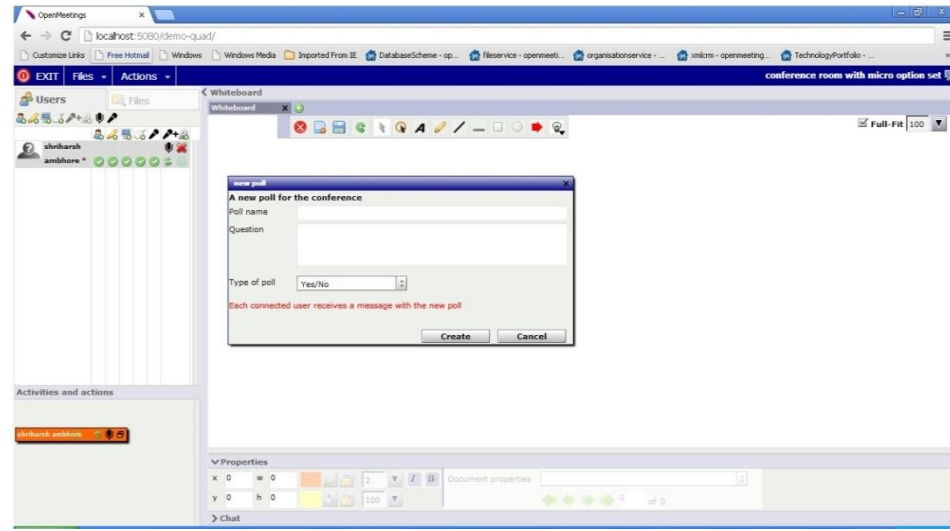
testing and development

Add fields of interest that you offer or that you are searching to find interesting partners for a conference. Comma separate the terms (for example: Medical Service, Health insurance, ...)

## Upload File in conference:



## NEW POLL:



### 3.12 Table Design

**Table 1: Adresses**

<b>Sr.No</b>	<b>Name</b>	<b>Data Type</b>	<b>Size</b>	<b>Constraint</b>	<b>Description</b>
1	Addresses_id	Bigint	20	Primary key	Adresses id
2	Additional name	Varchar	255		Additional name
3	Email	Varchar	255	Not null	Email id of User
4	Phone	Bigint	10	Not null	Phone no of user
5	Street	Varchar	255		Name of street
6	Town	Varchar	255		Name of Town
7	Zip	Varchar	255	Not null	Zip code of city/town

**Table 2 :Department**

<b>Sr .no</b>	<b>Name</b>	<b>Data Type</b>	<b>Size</b>	<b>Constraint</b>	<b>Description</b>
1	Department_id	Bigint	20	Primary key	Department ID
2	Inserted by	Bigint	20	Foreign key	ID of user
3	Name	Varchar	255		Name of Department
4	Start time	Datetime			Start time of Department

**Table 3:Users**

<b>Sr .no</b>	<b>Name</b>	<b>Data Type</b>	<b>Size</b>	<b>Constraint</b>	<b>Description</b>
1	User_id	Bigint	20	Primary key	User ID
2	Age	Date time	20	Not null	Age of User
3	FirstName	Varchar	255	not null	First name of user
4	LastName	Varchar	255		Last name of user
5	Login	Varchar	255	Not null	Login of user
6	Password	Varchar	255	Not null	Password of user
7	Pictureuri	Varchar	255		URI of Users IMAGE
8	Regdate	Date time			Date of registration
9	Adresses_id	Bigint	20	Foreign key	Foreign key from adresses
10	Lastlogin	Date time			Date & time of Last Login
11	Starttime	Date time			Start Date & time
12	Update time	Date time			Update



**Table 4:Rooms**

<b>Sr .no</b>	<b>Name</b>	<b>Data Type</b>	<b>Size</b>	<b>Constraint</b>	<b>Description</b>
1	Rooms_id	Bigint	20	Primary key	Room id
2	Name	Varchar	255	Not null	Name of room
3	Is_closed	Bit	1		Is room closed or not
4	Is_public	Bit	1		Is room public or not
5	Start time	Datetime			Start time of room
6	Update time	Date time			Update time of room
7	Is_moderator	Bit	1		Is user moderator or not
8	Roomtypes_id	Bigint	20	Foreign key	Roomtype primary key
9	Owner_id	Bitint	20	Foreign key	Room owner id

**Table 5:Roomtypes**

<b>Sr .no</b>	<b>Name</b>	<b>Data Type</b>	<b>Size</b>	<b>Constraint</b>	<b>Description</b>
1	roomtype_id	Bigint	20	Primary key	Room type id
2	Name	Varchar	255		Name of roomtype
3	Start time	Datetime			Start time
4	Update time	Date time			Update time

**Table 6: Recording**

<b>Sr .no</b>	<b>Name</b>	<b>Data Type</b>	<b>Size</b>	<b>Constraint</b>	<b>Description</b>
1	recording_id	Bigint	20	Primary key	Recording id
2	Name	Varchar	255		Name of Recording
3	Start time	Datetime			Start time
4	Update time	Date time			Update time
5	Duration	Bigint	20		Duration of recording
6	User_id	Bigint	20	Foreignkey	Recorded by user_id
7	Room_id	Bigint	20	Foreignkey	ID of room in which recording took place

**Table 7: Appointment**

<b>Sr .no</b>	<b>Name</b>	<b>Data Type</b>	<b>Size</b>	<b>Constraint</b>	<b>Description</b>
1	appointment_id	Bigint	20	Primary key	Appointment id
2	Description	Varchar	255		Description of appointment
3	Appointment_start time	Datetime		Not null	Start time of appointment
4	Appointment _endtime	Date time		Not null	End time of appointment
5	appointmentname	Vatchar	255	Not null	Name of appointment
6	Is_password_protected	Bit	1		Is appointment password protected or not
7	Room_id	Bigint	20	Foreignkey	ID of Room for the appointment
8	Category_id	Bigint	20	Foreign key	Id of appointment category
9	User_id	Bigint	20	Foreign key	User id
10	Location	Varchar	255		Location of appointment
11	Password	Varchar	255	Notnull	Password for appointment

**Table 8:Appointment Category**

<b>Sr .no</b>	<b>Name</b>	<b>Data Type</b>	<b>Size</b>	<b>Constraint</b>	<b>Description</b>
1	Category_id	Bigint	20	Primary key	Category id
2	Name	Varchar	255		Name of Category
3	Start time	Datetime			Start time
4	Update time	Date time			Update time
5	User_id	Bigint	20	Foreignkey	Recorded by user_id

**Table 9: rooms\_moderator**

<b>Sr .no</b>	<b>Name</b>	<b>Data Type</b>	<b>Size</b>	<b>Constraint</b>	<b>Description</b>
1	Room_moderator_id	Bigint	20	Primary key	Room_moderator ID
2	Is_supermoderator	Bit	1		Is supermoderator or not
3	Start time	Datetime			Start time
4	Update time	Date time			Update time
5	User_id	Bigint	20	Foreignkey	Recorded by user_id

**Table 10: Room\_poll**

<b>Sr .no</b>	<b>Name</b>	<b>Data Type</b>	<b>Size</b>	<b>Constraint</b>	<b>Description</b>
1	Room_poll_id	Bigint	20	Primary key	RoomPoll ID
2	Created	DateTIme		Notnull	Date and time when poll was created
3	Pollname	Varchar	255	Notnull	Name of the poll
4	PollQuestion	Varchar	255	Notnull	Questions in poll
5	User_id	Bigint	20	Foreignkey	user_id of user who created poll
6	Rooms_id	Bigint	20	Foreign key	Room in which poll was created

**Table 11:room\_poll\_answer**

<b>Sr .no</b>	<b>Name</b>	<b>Data Type</b>	<b>Size</b>	<b>Constraint</b>	<b>Description</b>
1	id	Bigint	20	Primary key	Id of room poll answer
2	Answer	Bit	1		Answered or not
3	Vote Date	Datetime			Date when poll was taken
4	Room_poll_id	Bigint	20		Room_poll ID
5	User_id	Bigint	20	Foreignkey	user_id

**Table 12:Invitations**

<b>Sr .no</b>	<b>Name</b>	<b>Data Type</b>	<b>Size</b>	<b>Constraint</b>	<b>Description</b>
1	Invitations_id	Bigint	20	Primary key	Invitation id
2	Appointment_id	Bigint	20	ForeignKey	Appointment ID from Appointment Table
3	Start time	Datetime			Start time of invitation
4	Update time	Date time			Update time of invitation
5	User_id	Bigint	20	Foreignkey	Id of user who created invitation
6	invitationWasUsed	Bit	1		Invitation was accepted or not
7	Invited Email	Varchar	255		Email id of invited person
8	Is passwordprotected	Bit	1		Is password protected or not
9	IsValidBytime	Bit	1		Is invitation valid by time or not
10	Validfrom	Datetime			Date from which the invitation is valid

<b>Sr .no</b>	<b>Name</b>	<b>Data Type</b>	<b>Size</b>	<b>Constraint</b>	<b>Description</b>
11	Validto	Datetime			Date till which the invitation is valid
12	Roomed	Bitint	20	Foreignkey	ID of room associated with invitation
13	Invitedpass	Varchar	255		Password for invitation
14	InvitedName	Varchar	255		Name of invited person

**Table13: Chat**

<b>Sr .no</b>	<b>Name</b>	<b>Data Type</b>	<b>Size</b>	<b>Constraint</b>	<b>Description</b>
1	id	Bigint	20	Primary key	Chat id
2	From Email	Varchar	255		Email id of sender
3	From Name	Varchar	255		Name of sender
4	Message	Varchar	255		Message sent via chat
5	Sent	DateTime			Date time when the

<b>Sr .no</b>	<b>Name</b>	<b>Data Type</b>	<b>Size</b>	<b>Constraint</b>	<b>Description</b>
					chat was send
6	To Email	Varchar	255		Email id of receiver
7	Toname	Varchar	255		Name of receiver
8	From_user_id	Bigint	20	Foreign key	User id of sender
9	To room_id	Bigint	20	Foreign key	Room id where chat took place
10	To_user_id	Bitint	20	Foreign key	Userid of receiver



**Table14 : whiteboard**

<b>Sr .no</b>	<b>Name</b>	<b>Data Type</b>	<b>Size</b>	<b>Constraint</b>	<b>Description</b>
1	id	Bigint	20	Primary key	Id of whiteboard
2	Created	Datetime	1		Date & time when the whiteboard was created
3	Room_id	Bigint	20	Foreignkey	Room in which the whiteboard was created
4	Full fit	Bit	1		Is whiteboard full fit or not
5	X	Int	11	Not null	X co-ordinate of whiteboard
6	Y	Int	11	Notnull	Y co-ordinate of whiteboard
7	Zoom	Int	11		Zoom value of whiteboard

### **3.13 Test Procedures and Implementation:**

#### **Unit Testing:**

In unit testing, initially the focus is on each component individually ensuring that it functions properly. Various unit testing strategies include testing of module interfaces, local data structures, boundary conditions and all independent paths.

#### **Integration Testing:**

The integration testing is on design and the construction of the software architecture. The individually tested components are integrated as a complete software package. Black box test case designed techniques are the most prevalent during integration.

Integration testing is mainly performed to check whether all the components work together properly when they are integrated. Top down incremental approach or bottom up incremental approach can be followed during integration.

Top down integration testing is an incremental approach to construction of program structure, thereby verifying major control or

decision points early in the test process. Bottom up integration testing begins construction and testing with atomic modules i.e components at the lowest level in the program structure. Regression testing is re-execution of some subset of tests that have been already been conducted to ensure that changes have not propagated unintended side effects.

### **Validation Testing:**

As the software has been integrated a set of higher order tests are conducted. Validation criteria established during requirements analysis must be tested. Validation testing provides final assurance that the software meets all the requirements and the specifications, functional, behavioural and performance requirements. Black box testing techniques are exclusively used during validation.

### **Performance Testing:**

Performance testing is performed to test the runtime performance of the software within the context of an integrated system. It occurs throughout all the steps in the testing process. These are often

coupled with stress testing and usually require both hardware and software implementation. This is often necessary to measure resource utilization.

**Security Testing:**

Security testing attempts to verify that protection mechanism built into a system will protect from improper penetration.

### Test Cases:

<b>TEST CASE ID</b>	<b>Scenario to test</b>	<b>Steps to perform</b>	<b>Expected result</b>	<b>Actual result</b>	<b>Pass/fail</b>
TCLogin1	Login into application	1)open login page 2)enter valid username 3)enter valid and password 4)click on sign In button	Application should accept valid username and password entered by the user and should direct to the home page	Login to the application	pass
TCLogin1.1	Login into application	1)open login page 2)enter valid username 3)enter invalid and password 4)click on sign In button	Application should not accept invalid username entered by the user and should throw invalid username error	Login denied with appropriate message	pass

<b>TEST CASE ID</b>	<b>Scenario to test</b>	<b>Steps to perform</b>	<b>Expected result</b>	<b>Actual result</b>	<b>Pass/fail</b>
TcLogin 1.2	Login into application	1)open login page 2)enter valid username 3)enter invalid and password 4)click on sign In button	Application should not accept invalid Password entered by the user and should throw invalid password error	Login denied with appropriate message	pass
TCLogin 1.3	Login into application	1)open login page 2)enter invalid username 3)enter invalid and password 4)click on sign In button	Application should not accept invalid Password and invalid username entered by the user and should throw invalid password error	Login denied with appropriate message	<b>Pass</b>

<b>TEST CASE ID</b>	<b>Scenario to test</b>	<b>Steps to perform</b>	<b>Expected result</b>	<b>Actual result</b>	<b>Pass/fail</b>
TcLogin 1.4	Login into application	1)open login page 2)enter invalid username 3)enter invalid and password 4)click on cancel button	After clicking on the cancel button, Previously entered values for username and password should be deleted from the field	Login denied with appropriate message	<b>Pass</b>

<b>TEST CASE ID</b>	<b>Scenario to test</b>	<b>Steps to perform</b>	<b>Expected result</b>	<b>Actual result</b>	<b>Pass/fail</b>
TCCreate2.0	Creation of appointment	1)open login page 2)enter valid username and password 3)click on sign in button 4)click on the calendar tab under dashboard 5)calendar will open 6)click on new event 7)Enter time , date and other information 8)select	Appointment must be created in the system	Appointment is created	Pass



		participants 9)enter the description 10)click on save			
TCCreate2.1	Creation of appointment: clicking cancel at the end	1)open login page 2)enter valid username and password 3)click on sign in button 4)click on the calendar tab under dashboard 5)calendar will open 6)click on new event 7)Enter	Application should redirect to the display page of the calendar	Appointment not created and redirected to the display page of calendar	Pass

		time , date and other informa tion 8)select particip ants 9)enter the descript ion 10)click on cancel			
--	--	--	--	--	--

TCCreate2.2	Edit scheduled appointment	<ol style="list-style-type: none"> <li>1)open login page</li> <li>2)enter valid username and password</li> <li>3)click on sign in button</li> <li>4)click on the calendar tab under dashboard</li> <li>5)calendar will open</li> <li>6) select the appointment to be edited</li> <li>7)edit info of appointment</li> <li>8)click on save</li> </ol>	Application should reflect the changes in the appointment	Appointment edited with new information	Pass
-------------	----------------------------	---	---	---	------

TCCreate2.3	Delete Appointment	<ol style="list-style-type: none"> <li>1)open login page</li> <li>2)enter valid username and password</li> <li>3)click on sign in button</li> <li>4)click on the calendar tab under dashboard</li> <li>5)calendar will open</li> <li>6) select the appointment to be deleted</li> <li>7)delete option will appear for appointment</li> <li>8)click on delete</li> </ol>	Application should delete the selected appointment	Selected appointment is deleted	pass
-------------	--------------------	---	--	---------------------------------	------

<b>TEST CASE ID</b>	<b>Scenario to test</b>	<b>Steps to perform</b>	<b>Expected result</b>	<b>Actual result</b>	<b>Pass/fail</b>
TCCreate 3	Enter conference room	1)open login page 2)enter valid username and password 3)click on sign in button 4)select the room type 5)click enter 6)select the devices 7)click Start conference	User will enter the selected conference room	The user enters the selected room	Pass
TCcreate 3.1	Upload document In conference	1)open login page 2)enter valid username	User will see the selected file on whiteboard	The selected file is seen on whiteboard	Pass

		<p>e and password</p> <p>3)click on sign in button</p> <p>4)select the room type</p> <p>5)click enter</p> <p>6)select the devices</p> <p>7)click Start conference</p> <p>8)select file option from tool bar</p> <p>9)select the file to be uploaded</p> <p>10)click upload button</p>			
TCCreate 3.2	Record meeting	<p>1)open login page</p> <p>2)enter valid</p>	User will be able to record the ongoing conference	The ongoing conference is recorded	Pass

		username and password 3)click on sign in button 4)select the room type 5)click enter 6)select the devices 7)click Start conference 8)Select the action option from toolbar 9)select share/record screen 10)select the area to be shared 11)hit start			
--	--	---	--	--	--

		recordin g			
TTCre ate3.3	Pause recordin g	1)open login page 2)enter valid usernam e and passwor d 3)click on sign in button 4)select the room type 5)click enter 6)select the devices 7)click Start conferen ce 8)Select the action option from toolbar 9)select share/rec ord	The User will be able to pause the recording	The ongoing recordin g is paused	pass



		screen 10)select the area to be shared 11)hit start <b>Recordin</b> g 12)hit pause recordin g			
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**CHAPTER 4**  
**USER MANUAL**

## **4.1 User Manual**

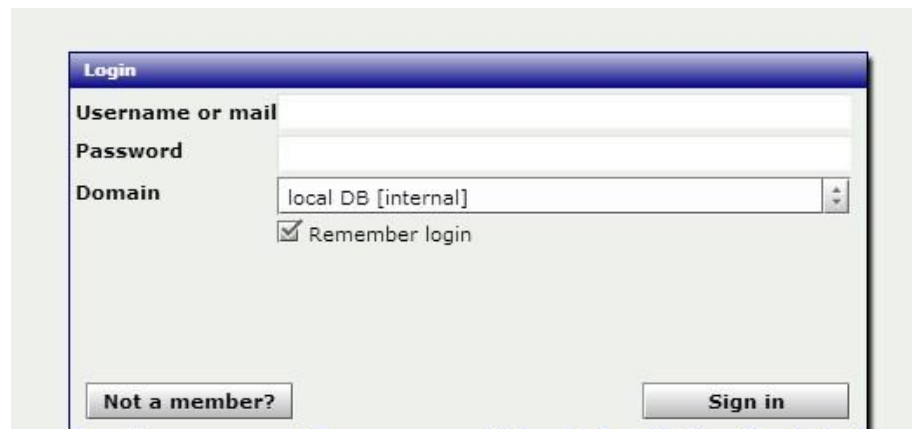
The user manual is prepared reflexively because it is an item that must accompany every system. Manual is given so that there is quick reference about the system package. This manual will help users to navigate through the application and help users out whenever there is any trouble using application.

Information about the system:

Unified collaboration tool has following functions:

1. set up appointment with others
2. support daily/weekly/monthly view of appointments
3. Set up audio /video conference with participants
4. Share documents throughout the conference
5. Sending text messages to others
6. Recording the meeting
7. Support to download /play the recording

## Navigation through the application




The image shows a 'Login' dialog box with the following elements:

- Username or mail**: A text input field.
- Password**: A text input field.
- Domain**: A dropdown menu currently displaying 'local DB [internal]'.
- Remember login**: A checked checkbox.
- Not a member?**: A button at the bottom left.
- Sign in**: A button at the bottom right.

**Login:** you need to login with valid username or email id and password to use the application.

### **Sign in for new Account (Register):**

- If you are not registered with this application then click on the “Not a Member” button .
- The Sign up window requires the new user to provide some parameters i.e. username, password ,firstname ,lastname, etc

The image shows a 'Sign up' window with the following fields and options:

- First name: [text input]
- Surname: [text input]
- Username: [text input]
- Password: [text input]
- Re-enter password: [text input]
- Email address: [text input]
- Timezone: Etc/GMT+6 (Yekaterinburg, Almaty, Bangladesh)
- Country: Switzerland
- Language: english

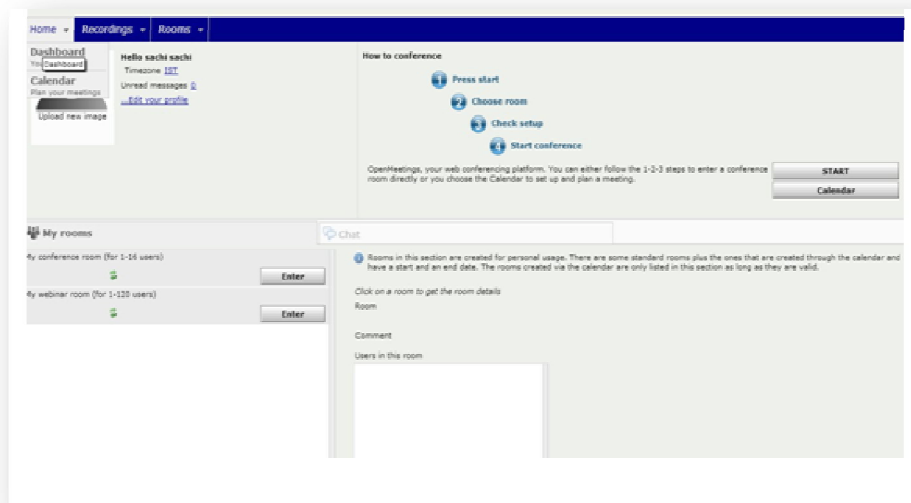
Buttons: Register, Cancel

Once you have filled in the required information click on the button

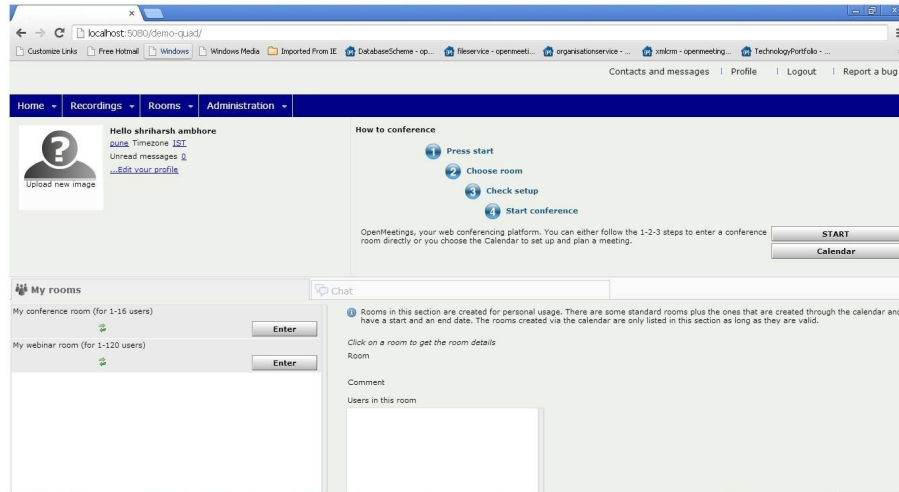
“Register”  .

- If Successful you should be able to login by providing the correct Login credentials.
- On login user can view the home screen along with the Menu on the top left corner of the home page.
- You can also view the brief user information along with

image of user. Home page has instruction on how to start a conference.



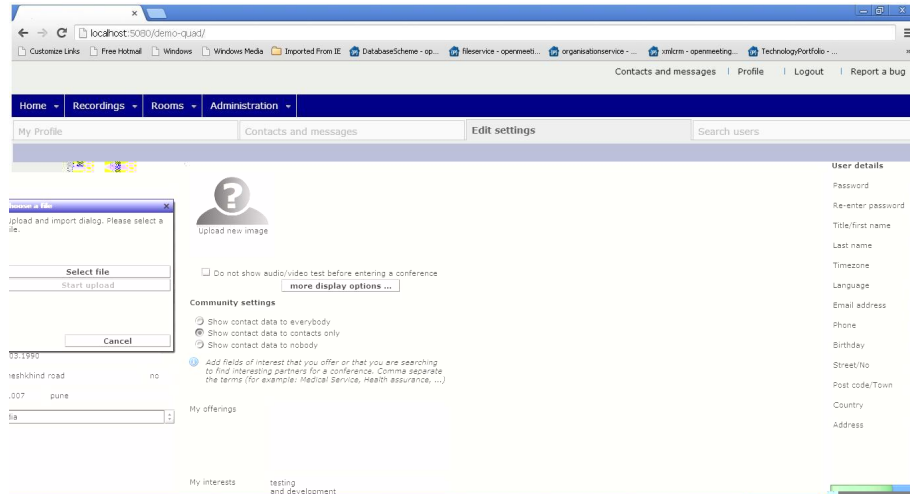
**Edit Profile:** Once you have successfully logged into the system you can edit your profile. It is very straight forward process. The profile will let others know little bit more about you.



**Upload Image:** If you want to change the image you can do it so by clicking the “Upload new Image”, which will prompt you to a popup window that asks you to choose the file.

- 1) Hit “upload new image” button
- 2) Hit “ Select the file”
- 3) Browse the file to be uploaded
- 4) Once located click open
- 5) Then click start upload.

This might take a while until the picture is uploaded, when done it will automatically reflect the new image.



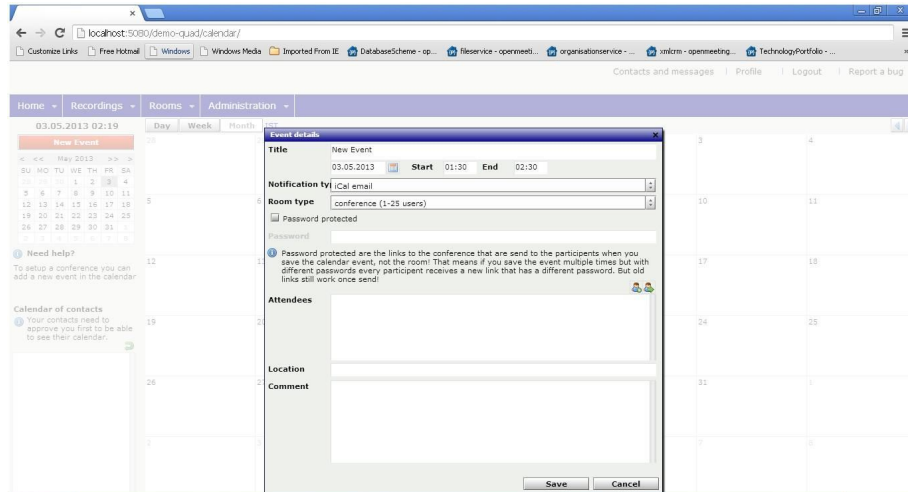
## **Scheduler:**

Under the Home menu user can view Calendar Scheduler services.

## **Create New Appointment:**

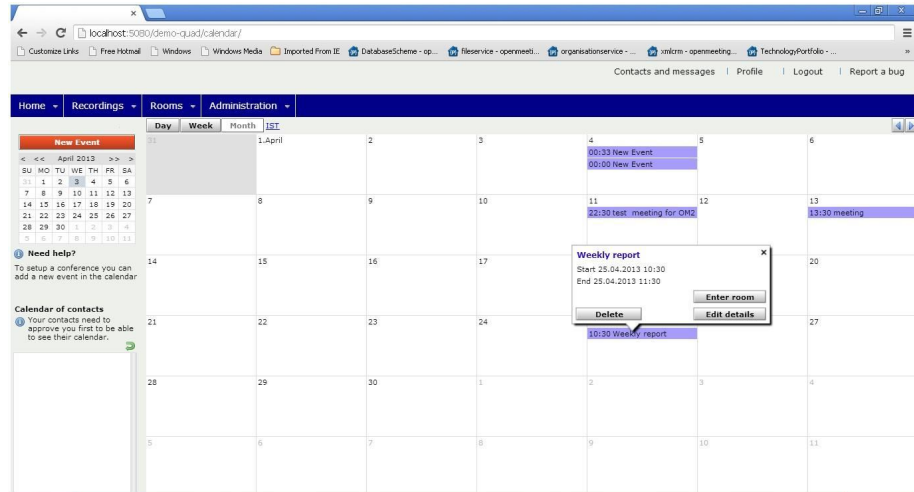
- To create a new appointment user can find the “new event” button. On clicking this new event will be displayed.
- Enter the correct Date, time, participants information and click on SAVE or Cancel. Created Appointment will be displayed on the calendar.





## **Edit /Delete Appointment**

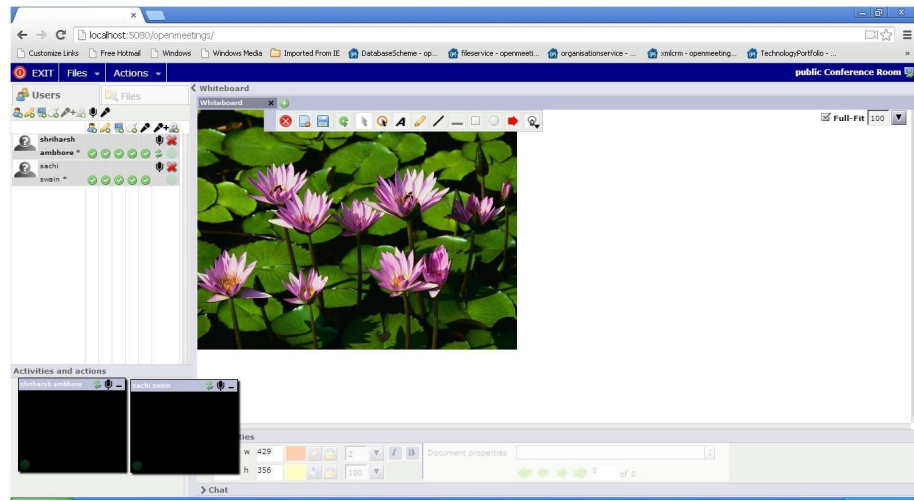
- To edit or delete existing appointment one has to click the event that he wishes to edit or delete.
- Enter the necessary information to edit the meeting.
- Click **SAVE** to edit the appointment.
- Click **Delete** to delete the appointment



## Conferencing :

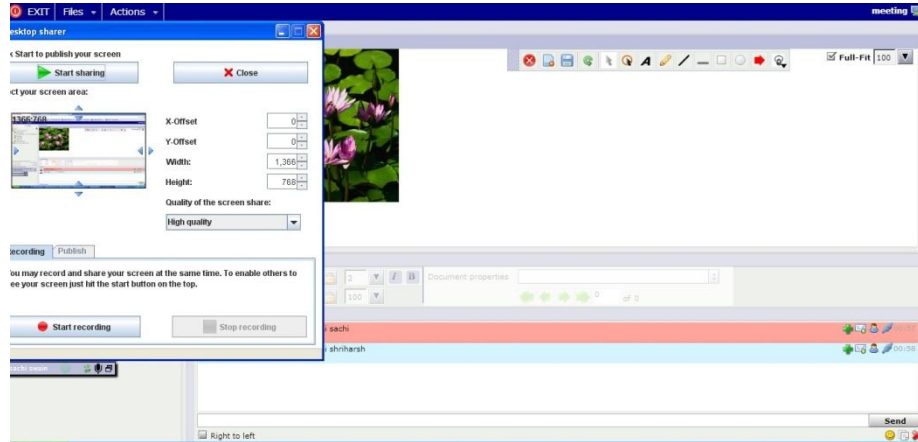
- User can enter the conference by clicking the Room option on home screen.
- User can select the Conference room he wants to enter
- Once you have entered the room you will be prompted with a question to choose the publishing devices.
- During conference user can select the file to be uploaded on the whiteboard to share it with participants by selecting the File option in conference room.

- Select the file to be uploaded and hit upload on whiteboard.
- On completion the file will be displayed on the whiteboard



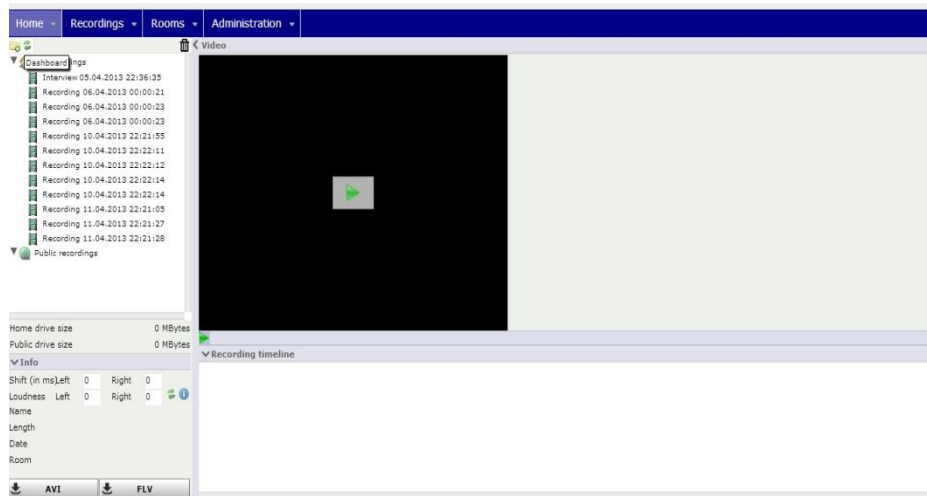
### **Recording:**

- User can record the entire meeting involving the audio/video and the activities on the whiteboard.
- On selecting the “start recording” the entire meeting till its end is recorded and is made available to users for viewing.



- For viewing the meeting Recordings users can navigate through the main menu item Recordings.
- Under recordings a list of Public and Private Recordings is populated.
- Public recordings are accessible to everyone.
- Private recordings are accessible to the owner itself only.
- User can even download the recording in either

AVI of FLV format .



## **4.2 Operational Manual:**

Login: you need to login with valid username or email id and password to use the application

Sign up: If you are not registered with this application then click on the “Not a Member” button to register with the system.

Edit Profile: Once you have successfully logged into the system you can edit your profile

Scheduler: Under the Home menu user can view Calendar Scheduler services. User can create, edit or delete meeting appointment.

Conferencing : User can enter the conference by clicking the Room option on home screen.

Recording: User can record the entire meeting involving the audio/video and the activities on the whiteboard.

### 4.3 Program Specification

<b>Module:</b>	<b>Program Name</b>	<b>Constraint</b>	<b>Description</b>
Scheduler	Create Appointment	Time ,Date and attendee must be selected	User can create appointment
	Edit appointment	Can change the date and time	Editing of created appointment
	Cancel appointment	Need to select the appointment	Appointment can b cancelled

<b>Module:</b>	<b>Program Name</b>	<b>Constraint</b>	<b>Description</b>
Authentication	Login	The required fields must not be null	To access the application user is given a login form

<b>Module</b>	<b>Program name</b>	<b>Constraint</b>	<b>description</b>
Conference	Meeting	Invitation should be send to user	a meeting with audio video conferencing is created

<b>Module</b>	<b>Program name</b>	<b>Constraint</b>	<b>Description</b>
Recording	Create meeting recording	The meeting should be started	A recording of the meeting is created



### **Drawbacks and Limitations:**

- No support for High Definition Video streaming
- Not possible to attend meeting from mobile platform

### **Proposed Enhancements:**

- Sms reminder facility to be added.
- Integrating with Organization's intranet portals
- Support for single sign on (SSO)
- Hosting meeting from mobile
- Providing Cloud based service

## **Conclusion:**

All the requirements stated by the company have been addressed in this software. The software categorization which includes:

- 1) Create new meetings
- 2) Display existing meetings
- 3) Edit meetings
- 4) Allow to record the meetings
- 5) Allow to play the meetings recordings
- 6) Allow to share documents with meeting member.

As we know that, any project even on completion required constant improvement and changes which gives way for release of new version. We made this application user friendly.

## **Bibliography**

### **Books:**

JAVA complete reference

Red5 video on demand flash server

Headfirst JAVA

### **Sites:**

<http://red5.org>

<http://stackoverflow.com>

<http://www.openlaszlo.org/>

<http://www.coderanch.com>

## **ANNEXURES**

**ANNEXURE 1: Input form with Data**

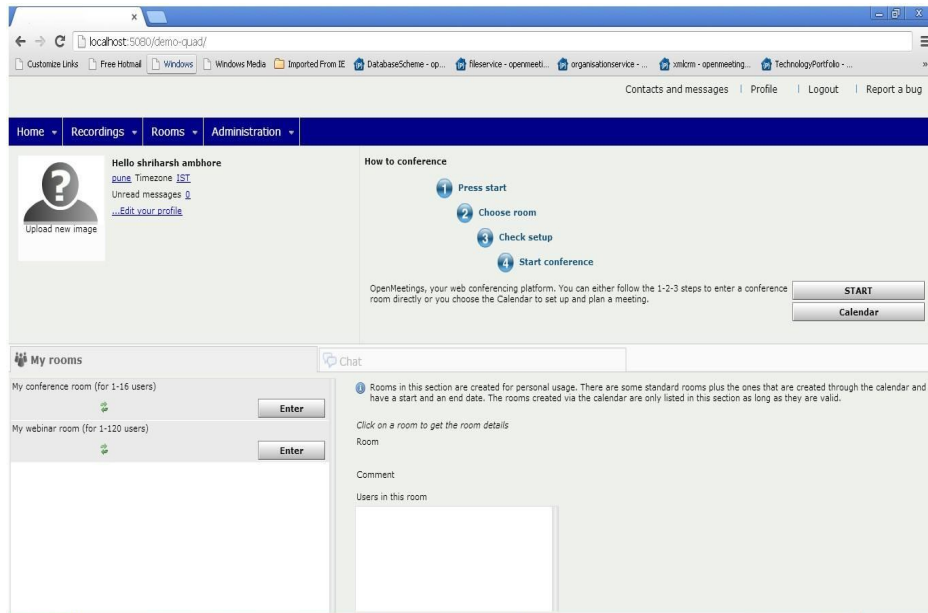
## Login page



A screenshot of a login page form. The form has a blue title bar labeled "Login". It contains two input fields: "Username or mail" with the value "harsh" and "Password" with the value "\*\*\*\*\*". Below the fields are two buttons: "Not a member?" and "Sign in". At the bottom left, there is a link labeled "Forgotten your password?".

Login	
Username or mail	harsh
Password	*****
<input type="button" value="Not a member?"/>	<input type="button" value="Sign in"/>
<a href="#">Forgotten your password?</a>	

## Application home page



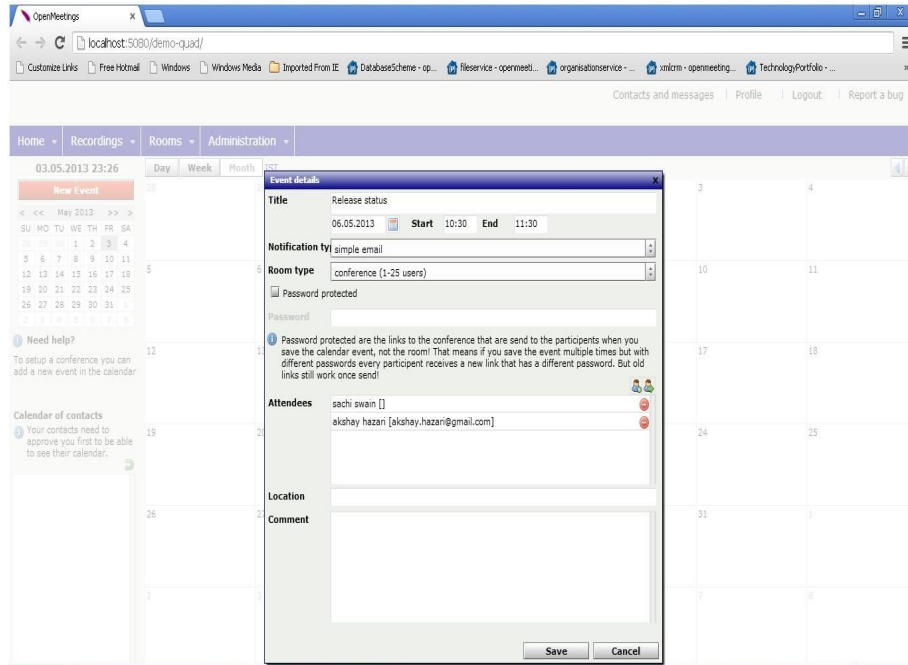


## Created meeting appointments

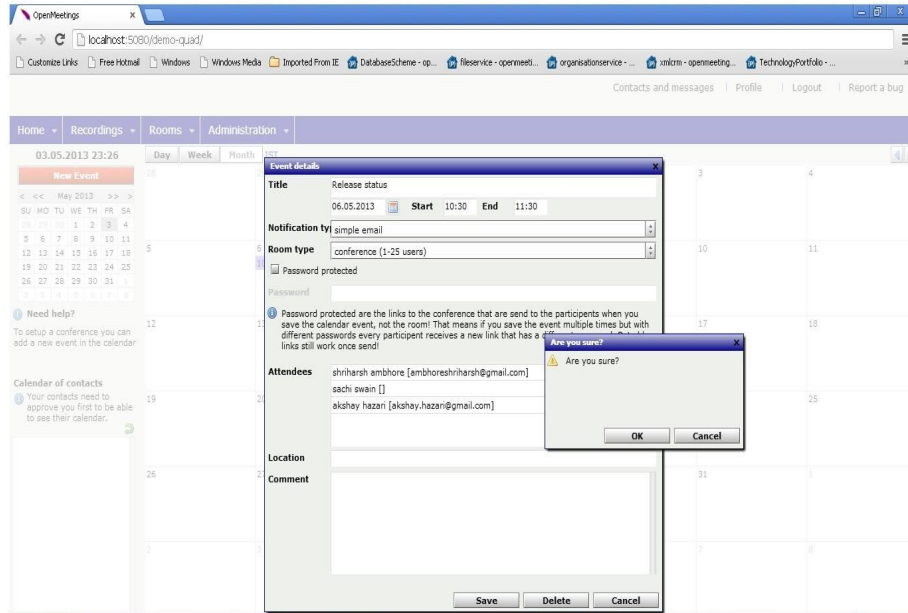
The screenshot shows a web browser window with the URL `localhost:5080/demo-qjad/`. The application interface includes a navigation bar with links for Home, Recordings, Rooms, and Administration. The main content area displays a calendar for May 2013, with a date range from 03.05.2013 23:26 to 1. May. A meeting appointment titled "10:30 Release status" is visible on May 6th. The calendar also features a "New Event" button and a "Calendar of contacts" section.

Day	Week	Month	IST				
28		29	30	1.May	2	3	4
5	6	7	8	9	10	11	
12	13	14	15	16	17	18	
19	20	21	22	23	24	25	
26	27	28	29	30	31	1	
2	3	4	5	6	7	8	

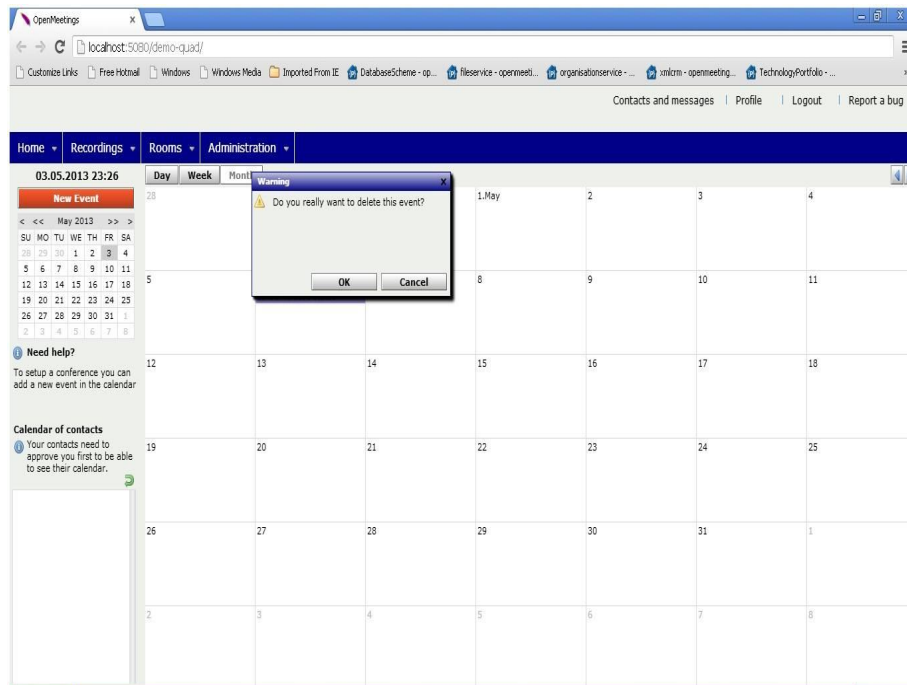
## Create meetings Appointment



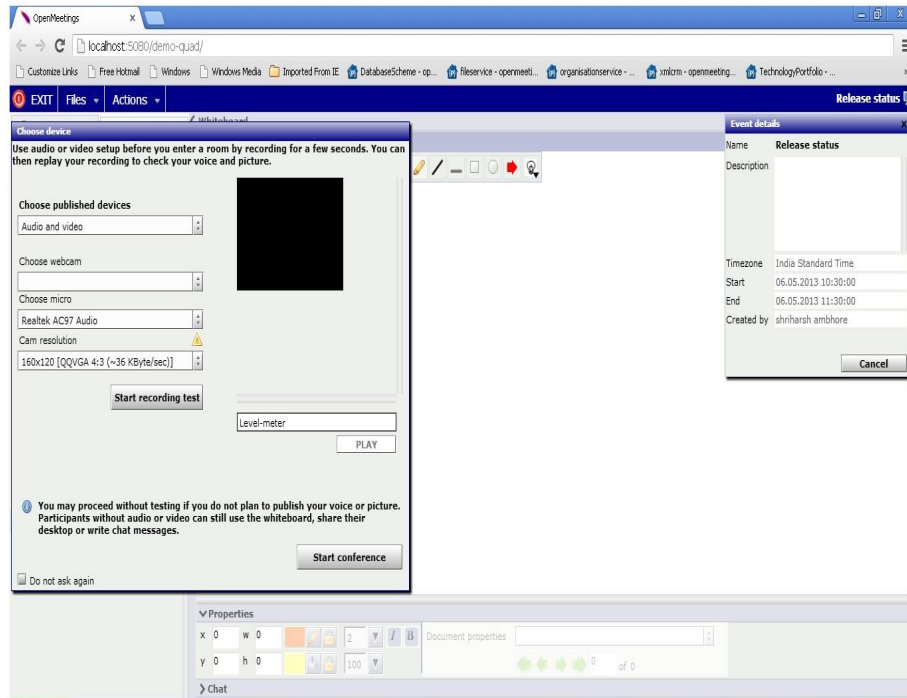
## Editing meeting appointment



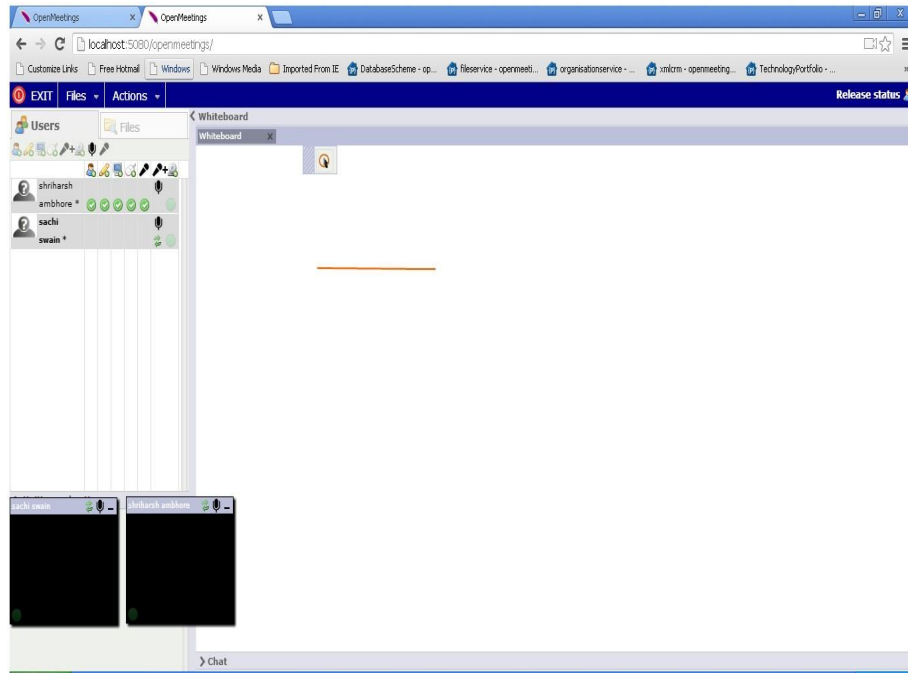
## Cancel the meeting appointment



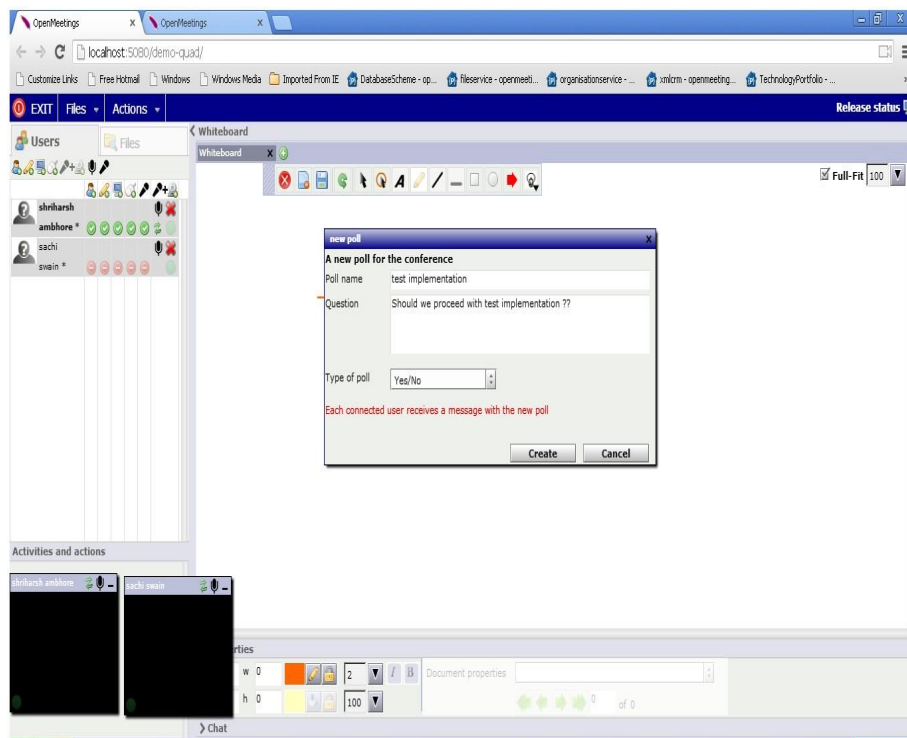
## Conference room configuration



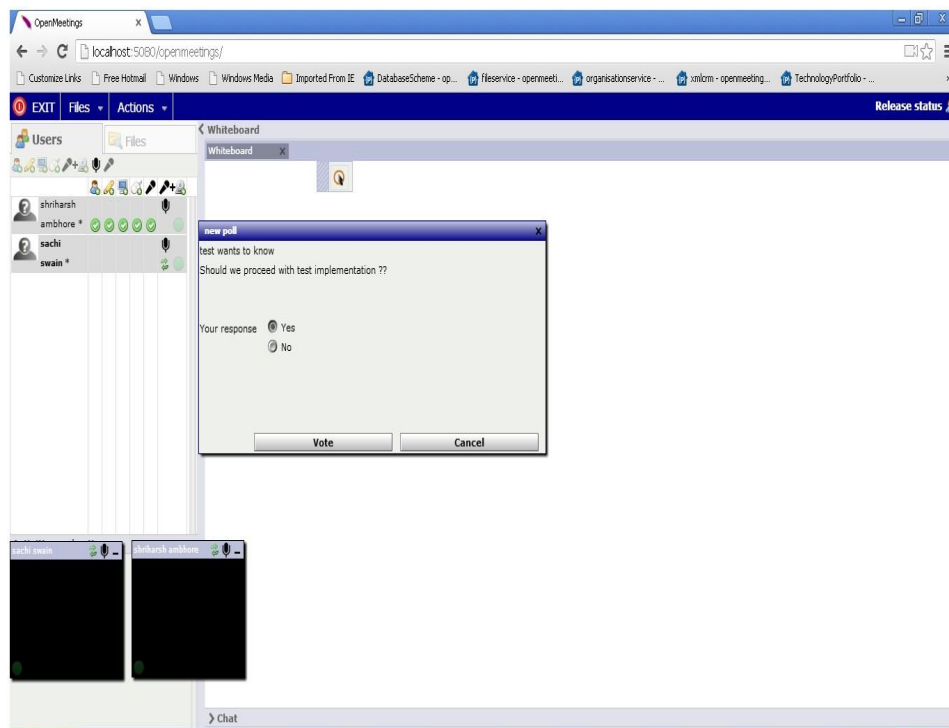
## Audio/Video Conference room with whit board



## Setting Poll questions in conference

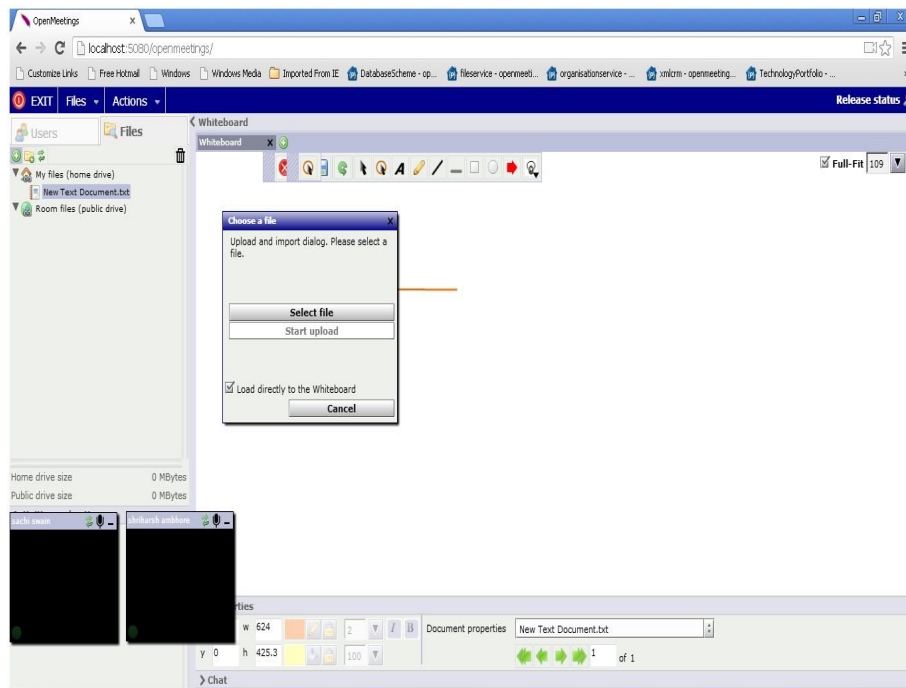


## Answering Poll question

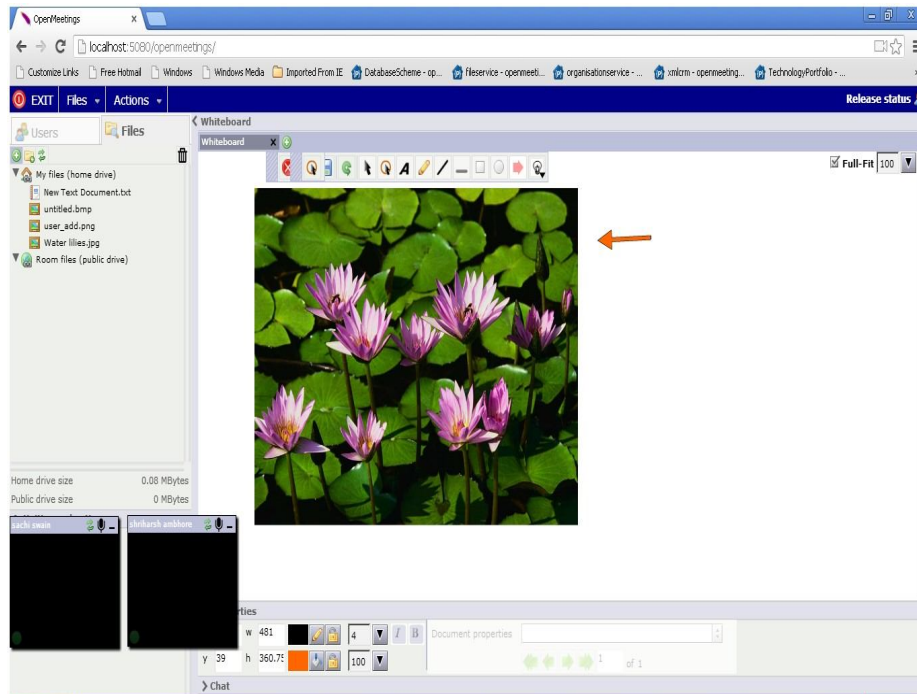




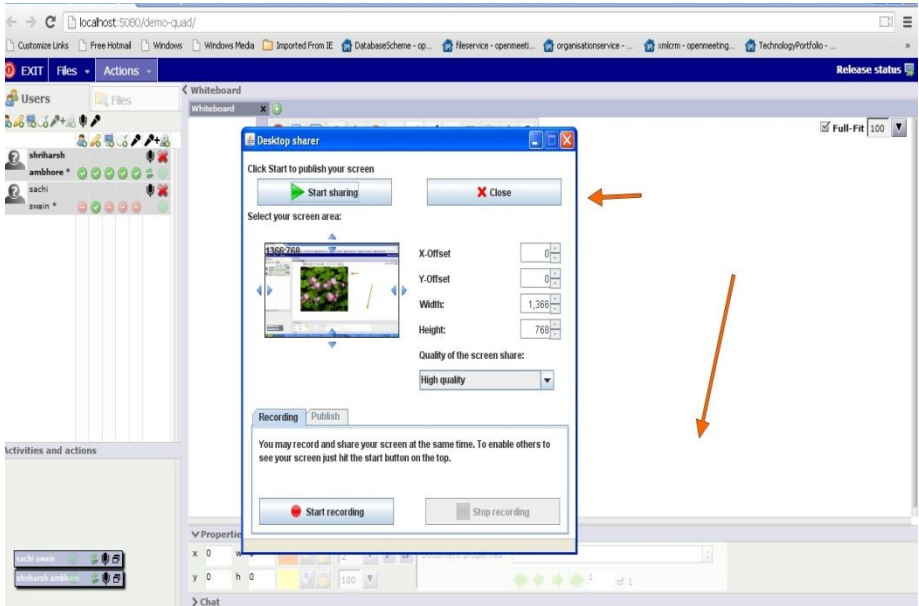
## Uploading file to whiteboard



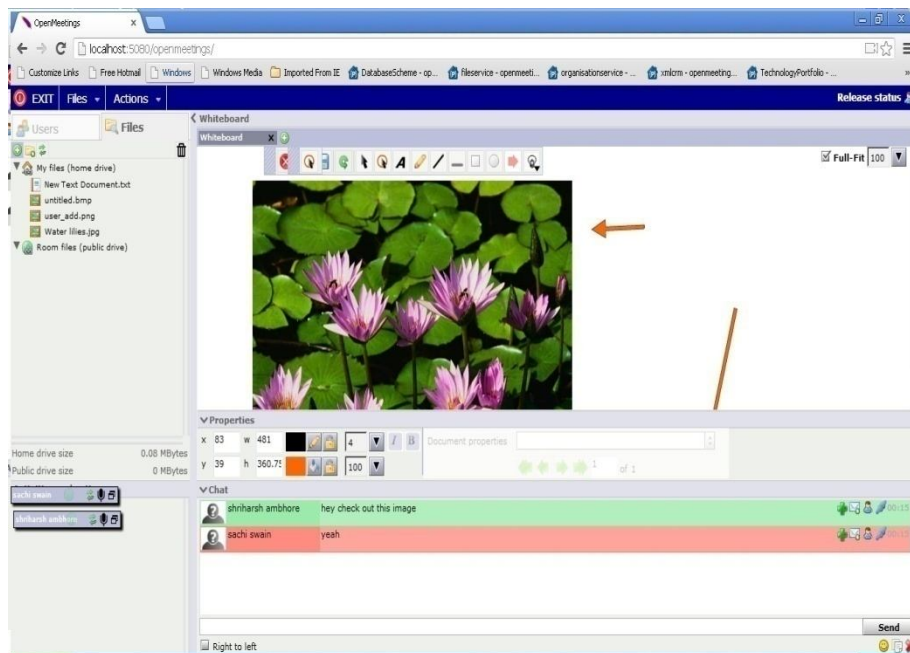
## WhiteBoard contents



# Meeting Recording



## Conference Instant messenger



## Edit Profile

localhost:5080/demo-quad/

Customize Links | Free Hotmail | Windows | Windows Media | Imported From IE | DatabaseScheme - op... | fileserve - openmeet... | organisationsservice - ... | xmlcm - openmeeting... | TechnologyPortfolio - ...

Contacts and messages | Profile | Logout | Report a bug

Home - Recordings - Rooms - Administration -

### User details

Password

Re-enter password

Title/first name

Last name

Timezone   Do not show audio/video test before entering a conference [more display options ...](#)

Language

Email address

Phone

Birthday


Street/No

Post code/Town

Country

Address

Usergroup

 Upload new image

### Community settings

Show contact data to everybody

Show contact data to contacts only

Show contact data to nobody

Add fields of interest that you offer or that you are searching to find interesting partners for a conference. Comma separate the terms (for example: Medical Service, Health assurance, ...)

My offerings

My interests

# My Profile

The screenshot shows a web browser window with the title 'OpenMeetings'. The address bar displays 'localhost:5080/demo-quad/'. The browser's address bar contains several tabs: 'Customize Links', 'Free Hotmail', 'Windows', 'Windows Media', 'Imported From IE', 'DatabaseScheme - op...', 'fileserve - openmeet...', 'organisationsservice - ...', 'micro - openmeeting...', and 'TechnologyPortfolio - ...'. The browser's address bar also shows 'Contacts and messages | Profile | Logout | Report a bug'. The main content area features a navigation bar with 'Home', 'Recordings', 'Rooms', and 'Administration'. Below the navigation bar, the 'My Profile' section is active, showing a profile card for 'shriharsh ambhore'. The profile card includes a placeholder for a profile picture (a question mark in a circle), the name 'shriharsh ambhore', the timezone 'IST (Asia/Kolkata)', and the membership date 'Member since 04.04.2013'. Below the profile card, there are sections for 'Fields of interest' (My offerings), 'My interests' (testing and development), and 'Contact information' (Address & Phone: ganeshkhind road no 41, 1007 pune India; Email: ambhoreshriharsh@gmail.com; Phone: 9765014716).

OpenMeetings x


localhost:5080/demo-quad/

Customize Links Free Hotmail Windows Windows Media Imported From IE DatabaseScheme - op... fileserve - openmeet... organisationsservice - ... micro - openmeeting... TechnologyPortfolio - ...

Contacts and messages | Profile | Logout | Report a bug

Home Recordings Rooms Administration

My Profile Contacts and messages Edit settings Search users

 Name [shriharsh ambhore](#)  
Timezone IST (Asia/Kolkata)  
Member since 04.04.2013

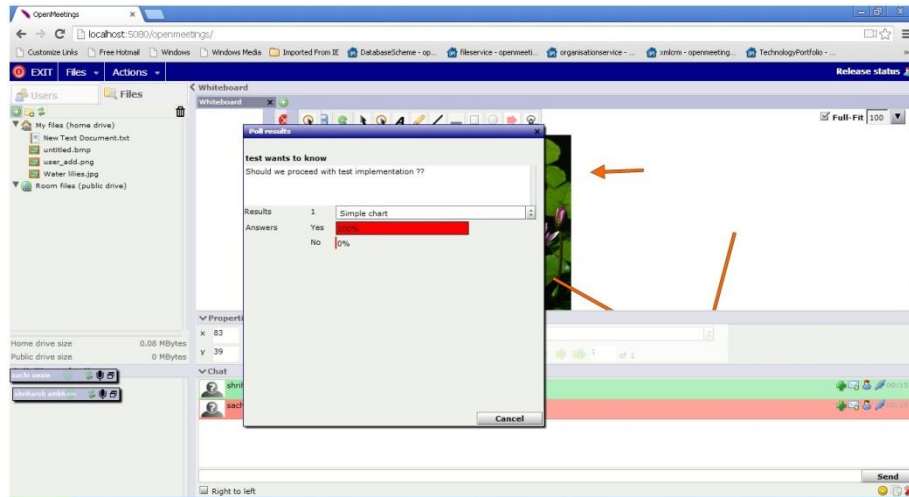
**Fields of interest**  
My offerings

**My interests**  
[testing and development](#)

**Contact information**  
Address & Phone ganeshkhind road no  
41,1007 pune  
India  
ambhoreshriharsh@gmail.com  
9765014716

## **ANNEXURE 2: Output Reports With Data**

## Poll result



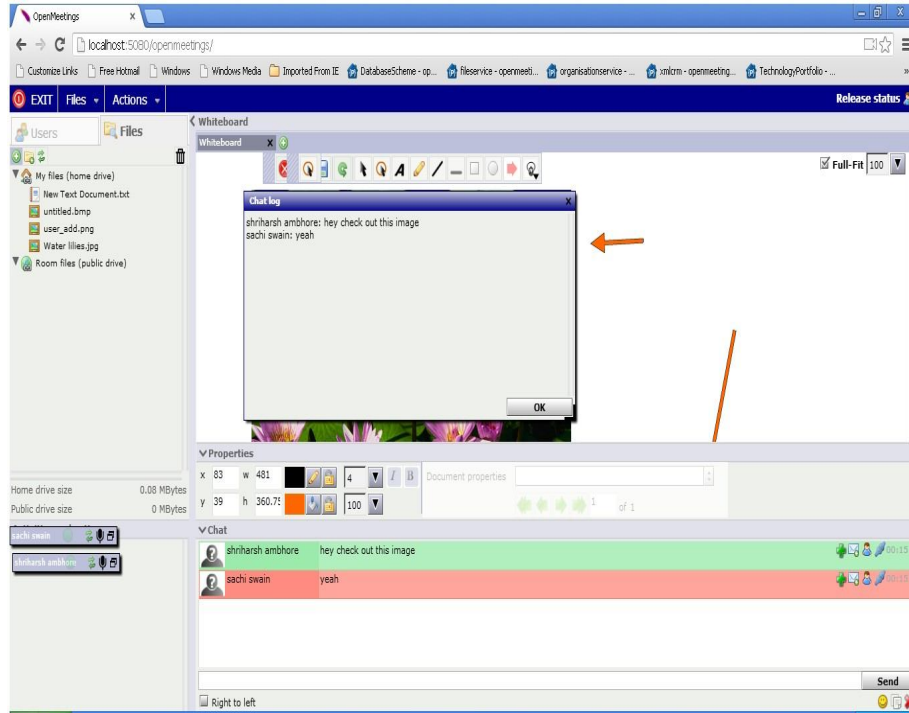


## Search Users

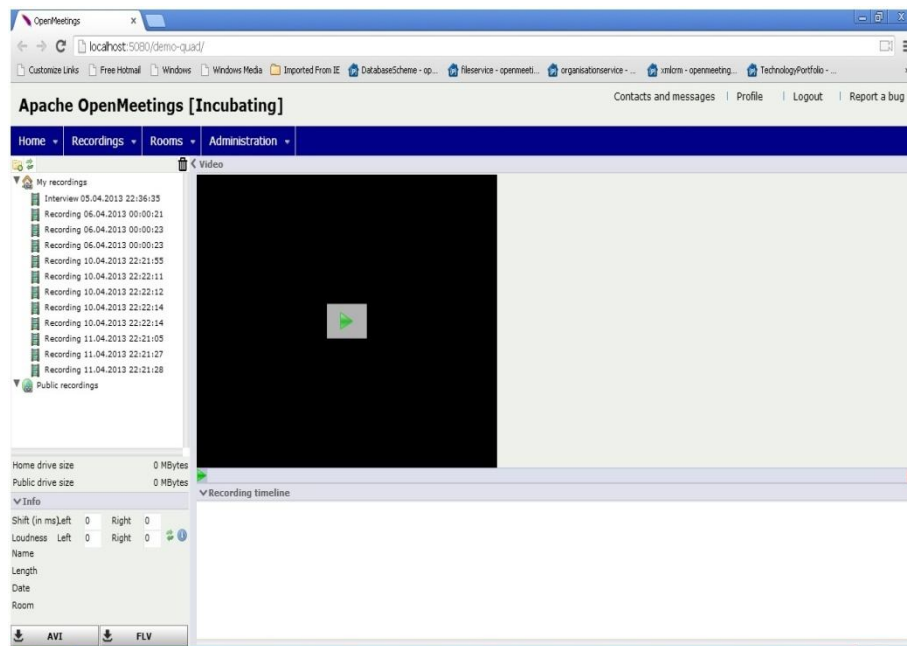
The screenshot shows a web browser window with the URL `localhost:5080/demo-quad/`. The page has a navigation bar with tabs for `Home`, `Recordings`, `Rooms`, and `Administration`. Below the navigation bar, there are tabs for `My Profile`, `Contacts and messages`, `Edit settings`, and `Search users`. The `Search users` tab is active, showing a search result for the text `akshay`. The search result is displayed in a table with the following columns: `Name`, `Timezone`, `Offers`, `Searches`, and `Actions`. The table contains one row with the following data: `Mr akshay hazari [Akshay]` in the `Name` column, `IST (Asia/Kolkata)` in the `Timezone` column, and an `Actions` column containing a user icon. The search bar on the left contains the text `akshay` and a `Search` button. The search result is labeled `Search result 1 - 1 von 1` and a `1000` limit is shown.

Name	Timezone	Offers	Searches	Actions
Mr akshay hazari [Akshay]	IST (Asia/Kolkata)			

## View chat Log



## View meetings recordings



## **ANNEXURE 3: Sample Program Code**

## CreateAppointment.html

```
<html xmlns:wicket="http://wicket.apache.org">
    <wicket:head>
        <link media="screen" type="text/css"
rel="stylesheet" href='css/fullcalendar.css' />
        <!-- link media="print" type="text/css"
rel="stylesheet" href='css/fullcalendar.print.css' /--> <!--
FIXME incorrectly rendered -->
        <script type="text/javascript">
            function getCalendarHeight() {
                return $(window).height() -
$( '#calendar' ).position().top - 20; //FIXME HACK
            }

            function refetchEvents() {

$( '#calendar' ).fullCalendar('refetchEvents');

                window.setTimeout(refetchEvents, 10
* 1000);
            }
        </script>
    </wicket:head>
</html>
```

```

function calendarInit() {
    $('#calendar').fullCalendar({
        header: {
            left: 'prev,next today',
            center: 'title',
            right:
'month,agendaWeek,agendaDay'
        }
        , editable: true
        , allDaySlot: false
        , axisFormat: 'HH(:mm)'
        , selectable: true
        , defaultEventMinutes: 60
        , timeFormat: {
            agenda: 'HH:mm{ -
HH:mm}'
            , ": 'HH(:mm)'"
        }
        , height: getCalendarHeight()
    });
}

```

```

, windowResize: function() {

    $('#calendar').data().fullCalendar.option('height',
getCalendarHeight());

    this.option('height',
getCalendarHeight());

}

, eventDrop: dropEventFunc
//TODO confirm ??

, eventResize: resizeEventFunc
//TODO confirm ??

, eventClick: eventClickFunc
, select: selectFunc
, eventSources: [

    {

        events:

        fetchEventsFunc

        //, color: '#4793E6'

        //, textColor:

        'black'

    }

```

```

        ]
    });
    refetchEvents();

    $('#appointment').dialog({
        closeOnEscape: true
        , resizable: true
        , width: 450
        , autoOpen: false
        , modal: true
    });
    }
</script>
</wicket:head>
<wicket:panel>
    <script type="text/javascript"
src="js/fullcalendar.min.js"></script>
    <div wicket:id="calendar"></div>
    <!-- bottom section -->

```



```

        <div id="appointment"
wicket:ommessage="title:815">
            <form wicket:id="appointment">
                <table>
                    <tr>
                        <td><wicket:ommessage
key="572" /></td>
                        <td><input type="text"
wicket:id="appointmentName" /></td>
                    </tr>
                    <tr>
                        <td><wicket:ommessage
key="570" /></td>
                        <td><span
wicket:id="appointmentStarttime"></span></td>
                    </tr>
                    <tr>
                        <td><wicket:ommessage
key="571" /></td>
                        <td><span
wicket:id="appointmentEndtime"></span></td>

```

```

        </tr>
      <tr>
        <td><wicket:ommessage
key="565" /></td>
        <td><select
wicket:id="remind" ></select></td>
      </tr>
      <tr>
        <td colspan="2"><input
type="checkbox" wicket:id="createRoom"
/><wicket:ommessage key="1509" /></td>
      </tr>
      <tr>
        <td><wicket:ommessage
key="619" /></td>
        <td><select
wicket:id="room.roomtype" ></select></td>
      </tr>
      <tr>
        <td><wicket:ommessage
key="406" /></td>

```

```

                                <td><select
wicket:id="room" ></select></td>
                                </tr>
                                <tr>
                                <td colspan="2"><input
type="checkbox" wicket:id="isPasswordProtected"
/><wicket:ommessage key="524" /></td>
                                </tr>
                                <tr>
                                <td><wicket:ommessage
key="525" /></td>
                                <td><input
type="password" wicket:id="password" /></td>
                                </tr>
                                <tr>
                                <td
colspan="2"><wicket:ommessage key="1445" /></td>
                                </tr>
                                <!--
                                <tr>

```

```

                                <td><wicket:ommessage
key="803" /></td>

                                <td><select
wicket:id="meetingMember" ></select></td>

                                </tr -->

                                <tr>

                                <td><wicket:ommessage
key="569" /></td>

                                <td><input type="text"
wicket:id="appointmentLocation" /></td>

                                </tr>

                                <tr>

                                <td><wicket:ommessage
key="573" /></td>

                                <td><textarea
wicket:id="appointmentDescription"></textarea></td>

                                </tr>

                                <!-- tr>

                                <td colspan="2"
style="text-align: right"><input type="button"
wicket:id="save" /><input type="button" wicket:id="cancel"
/></td>

```

```
</tr -->
</table>
</form>
</div>
</wicket:panel>
</html>
```