# SHARED HOUSING MANAGEMENT

#### 1. TEAM INFO

The team meets at Fertitta Hall (JFF) on Friday 3:30PM - 5:30PM

#### A. Members

Jacob Schaider | jschaide@usc.edu
 Jae Woong Jung | jaewoonj@usc.edu
 Jiayue He | hejiayue@usc.edu
 Joseph Son | sonjs@usc.edu
 Kartik Mathur | kmathur@usc.edu

## 2. DETAILED DESIGN DOCUMENT

### **Hardware Requirements:**

- Memory 512 MB (recommended 1 GB or more)
- Free disk space 300 MB (recommended 1 GB or more)
- Processor Speed 800 MHz (recommended 1.5 GHz or faster)

#### **Software Requirements**

- Java version 1.4.0 (recommended 5.0 or greater)
- Eclipse Oxygen
- Tomcat

## Back-End:

Name	User
Members	- String fname; - String lname; - String username; - String email; - String password; - String groupID - Vector <user> roommates;</user>
Methods	-User(String fname, String Iname, String email) -String getFname(); -String getUsername(); -String setEmail(); String setFname(); -String setLname(); -String setUsername(); -String setUsername(); -String setEmail(); -String getGroupId();

Name	Group
Members	-Vector <user> userIncluded;</user>
Methods	-Vector <user> getAllUser(); -void addUser(User); -void deleteUser(User);</user>

Name	Allgroups
Members	-Map <string,group> allGroups;</string,group>
Methods	-void getGroups(String GroupId) -void addGroup(String GroupId) -void deleteGroup(String GroupId)

Name	Event
	Using Google API Calendar for Event Class -Summary; -Location; -Description -EventAttendee[]

Name	Calendar
Members	-List <events> allGroupEvents -Map<string,vector<events>&gt; allPersonalEvents</string,vector<events></events>
Methods	<ul><li>void addPersonalEvent(Event);</li><li>void deletePersonalEvent(Event);</li><li>void addGrouplEvent(Event);</li><li>void deleteGrouplEvent(Event);</li></ul>

Name	Command
Members	-enum CommandType; -Object object;
Methods	-Object getObject(); -CommandType getCommandType();

Name	CalendarClient
Members	ObjectOutputStream oos; ObjectInputStream ois;
Methods	-CalendarClient(String hostname, int port); -void run();

Name	CalendarServerThread extends Threads
Members	ObjectOutputStream oos; ObjectInputStream ois; CalendarServer cs;
Methods	-void sendCommand(Command command); -void readCommand();

Name	Calendar Server
Members	-Vector <serverthread> serverThreads; -DatabaseManager dm; -ServerSocket ss;</serverthread>
Method	-void processCommand(Command comamnd); -void broadCastCommand(Command command);

## Front-End

These Servlets will help us to send messages/information from front-end to backend  $\,$ 

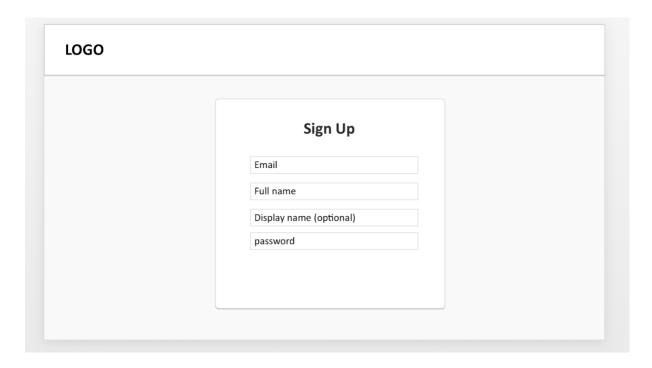
Name	SignUp/Registration Servlet
Method	boolean checkUserName(); boolean checkPassword(); Boolean checkEmail();

Name	AddInGroup Servlet
Method	boolean groupExist(); void addGroup(String groupId);

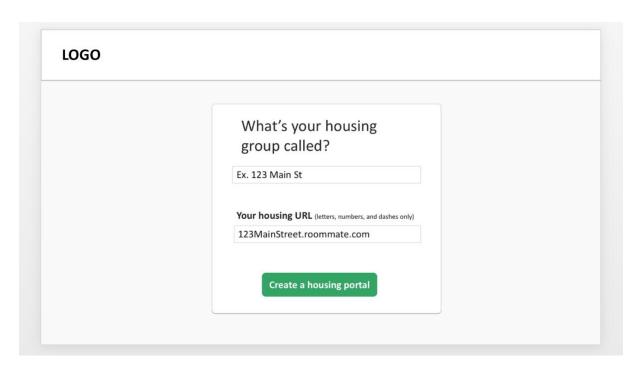
Name	AddEvents Servlet
Method	boolean timeConflict();

Name	StatusToggleServlet
Method	boolean updatedValid();

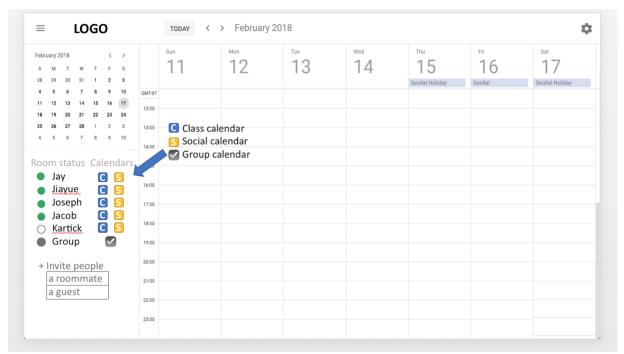
# Sign up page



## **Create a housing Group Page**



## Dashboard | Calendar Page



## Database

## **User Table**

	Username	Password	Name	Address	Cellnum	emergencyCellNum	Email	venmoHandle	
--	----------	----------	------	---------	---------	------------------	-------	-------------	--