System Design

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CRC CARD

User	
- Username - Major - School - Current Year - Resume - Profile Pic - Phone number - Register as a user - Log in - Search Chatroom by course code, semester, year - Set as a professor enrolled in course - Set as a TA enrolled in course - (Default – student enrolled in course) - Inside chatroom, set as chatroom manager (by other managers) - Enroll into chatroom to communicate with fellow classmates - Check chatting histories - Chat in chatroom [casually with classmates] - Post questions - Answer questions - Click on other registered users - Send private messages to other users - Adopt an answer to resolve post - Has the ability to adopt an answer to be able to resolve post - Search for posts in chatrooms through keywords - Send messages anonymously - Filters unwanted posts [or not as important posts] in chatrooms - File complaints on inappropriate posts	Server Login SignUp Profile Chatroom Post CrowdSourcing

- Access all functionality in app - Cannot hack in using CSS Injection	

Chatroom	
- Course (for that chatroom) - All [enrolled] Users (inside chatroom) - Chatroom admins (mediators/managers) - Keep track of historic posts - Notify all users about alerts/important posts - Keep track of posts that are alerts/important posts - Private Messaging (PM) with other users in the chatroom - Collect tags from collection of posts	User Server

Post	
- Post Content - Date posted - User association of post - Save post in database - Resolved post with utilization and adoption of an answer	User Chatroom Server

CrowdSourcing	
- Upload file to server - Download file from server - Sharing file with other user	User Controller[s]

Sign Up	
- Obtain username - Obtain first name - Obtain last name - Obtain password - Obtain UTORid	User Server Controller[s]

- Create new user using this info	

Login	
- Obtain username - Obtain password - Authenticate within databases using username and password	User Server Controller[s]

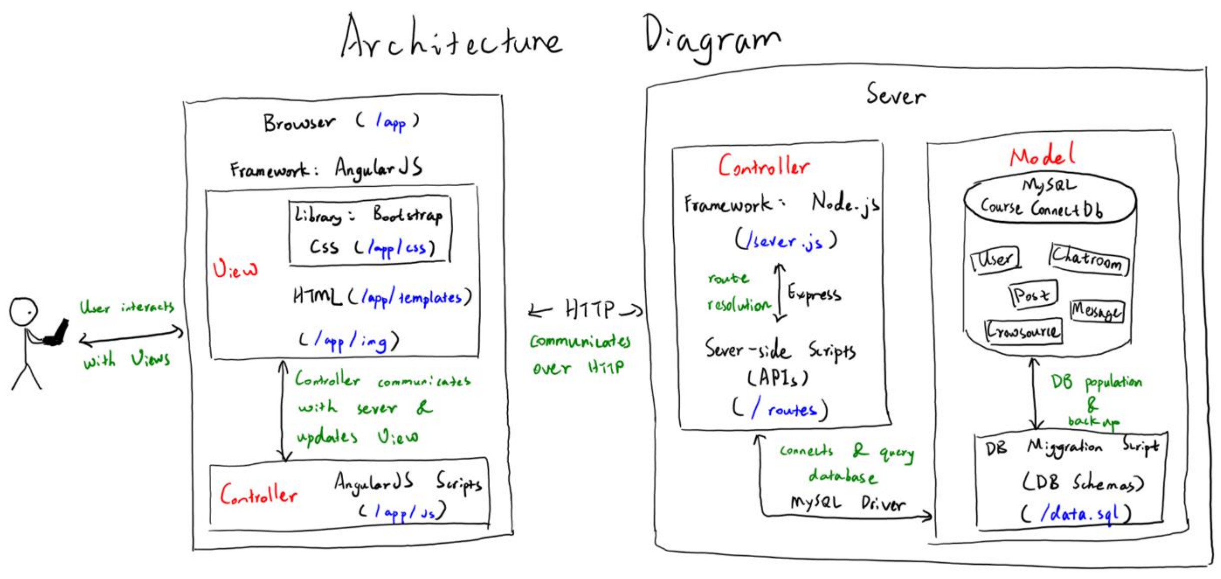
ProfilePage	
- Upload and set profile picture - Set first name and last name - Change first name and last name - Upload resume - Set major - Change password	User Controller[s]

LandingPage	
- Navigate to another portion of the application (gateway to user profile and chatroom[s])	User Controller[s]

Server	
- Connects to database - Connects to frontend - Authenticates HTTP requests - Returns HTTP response - Sends errors when needed	User Controller[s]

Controller	
- Response to user interaction - Communicate with server	Server

Architecture Diagram



Directory Structure

Directory Structure

```
CourseConnect/
        app/
                css/                    // css styles
                img/                    // image resources
                js/
                        controllers/    // ui controllers
                        directives/     // customized angular directives
                        filters/        // customized filter functions
                        tdPortals.js    // mapping views with their ui controllers
                templates/              // html pages
                index.html              // entry page with global header
        routes/
                routes.js               // route mapping
                ctrl-xx.js              // apis (controllers to talk with DB)
        server.js                       // server start script
        config.js                       // db config
        data.sql                        // db migration script
        package.json                    // dependencies
        bower.json                      // package manager
```