MCI project   First Milestone Report

Team number : Group 13
Project Title: Demo Court

Frontend ：Hanh

Activities	Planned Outputs
Restate the key activities from your draft plan.	Restate the planned outputs from your draft work plan.
Develop main page Develop personal page Develop upload page Develop sign in and sign up page UI Testing	Complete user interface of these pages using HTML, CSS, and JavaScript Complete UI of main page Complete UI of personal page that includes sub-pages such as edit account, reset password, and edit profile page. Complete sign in and sign up page Guarantee these pages work well on different computers with different resolutions.

Backend : Peng Zhang

Activities	Outputs
Register	The backend has implemented user registration, login, and logout functions.
Sign in and Sign out	
Handing data from frontend	The backend has established the user's data model and connected to the database to store the registered user information to the database.
User information verification	The back-end has implemented the function of user information verification, including checking whether the user name has already existed in the mailbox when registering and verifying that the user name and password are correct when logging in.
Video upload function	The video upload function has been implemented on the back end. The back-end establishes a database model of the video and establishes the relationship between the video and the user. After the video is uploaded, the video information can be saved to the collection of the video and uploaded to the user's collection.
Displaying Video on website	The backend can display the uploaded video of the user to the homepage of the individual user and the homepage of the website.
Video deletion	Backend implemented the function that users can delete uploaded videos from their homepage
Editing Profile	The backend has implemented the modification of personal information including user name, mailbox, personal introduction and other information modification. At the same time, personal information can be displayed on the personal homepage.

Database：Jiacheng Zhu

Week5:
After the presentation, the group made the following priorities. First, continue to study the relationship between the data in the database. For example, which patterns are used to connect associations between data, and what are the pros and cons of each connection. During this week, I initially established data documents matching the project, but this is only for milestone1, and further modification is needed for milestone2 in the future. At present, there are three collections of video, users and recruiters. The next task is to select a data association method in MongoDB and establish a relationship between them.

Week6:
The main task of this week is to identify data relationships. There are two types of known data relationships. The first is nesting. This is done by adding the video attribute to each user's attribute. It can be a single video, or it can appear as an array of video. The advantage of this approach is that we can quickly query video and the users associated with the video. However, the disadvantages are obvious. When video volume and traffic increase, it is difficult for us to maintain video information uniformly. The second method is referential. This method is to first store all video, no matter which user it belongs to, in a collection, and then add information to each video, meaning that video will have its own ID, owner, and so on. Then directly reference the video ID in the corresponding user's video attribute. The disadvantage of this approach is that when querying video or users, more steps are needed to query the association information. But the benefits are clear, database management, maintenance, update and add will be much more convenient.

Team reflection on progress	**Provide some comments below regarding the completion of this milestone specifically around:** **1. How is the project progressing?** **2. Are there any differences between projected and actual outputs/outcomes?**

The project was progressed based on the draft work plan. We follow allocated task step by step, and try to finish work based on steps of Agile model: Design, develop, test, deploy, then review. Applying Agile model our activities from the draft plan helps to continuously check and produce the output until it meets the requirement. Our project team has fulfilled all the requirements of milestone1. Now users can go to the homepage of the website to register, log in and log out. At the same time, users can also enter the personal homepage to upload, delete and modify personal information. The homepage of the website will also display recent videos uploaded by users.

We also need to make further modifications to the user interface, such as the layout of the edit profile page and main page, font size, logo design. At the same time, the establishment of the back-end database needs further improvement to improve the efficiency of data search.