[CS CASUAL ACADEMIC REMUNERATION AND TIMESHEET APPROVAL MANAGEMENT SYSTEM]

Progress Report

THE UNIVERSITY OF SYDNEY

Information Technology Capstone Project

COMP5703

1. Ziyue Yi (490259641)
2. Yuhao Shi (480454777)
3. Tianyang Yu (500430235)
4. Ziyi Zhang (460446206)

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1. PROGRESS STATUS

Project Name	CS Casual Academic Remuneration and Timesheet Approval Management System
Project Start Date	August 26, 2020
Project Manager	Tianyang Yu
Client	Priyanka Magotra /Masahiro Takatsuka/ John Stavrakakis/Xi Wu

Project Description	The aim of this project is to create a portal that manages remuneration and timesheet approval of casual academics for School of Computer Science.

Project Status Report	#IndividualReport01	Date: September 3, 2020

Status Item	**Status up to last week**	**Planned for this week**
Major deliverables	1. Getting to know group members 2. Gathering requirement	1. Define the process of development. 2. Choose front-end and back-end frameworks.
Planned delivery date	August 26, 2020	September 3, 2020
Major issues	Understanding the requirements of the project	Setting up developing environment
Major risks	Unfamiliar with the working process of the clients	Unfamiliar with some of the tools we are going to use
External dependencies	Wechat	Wechat
Estimated effort (hr)	18	18
Recorded effort (hr)	18	
Status (R, Y, G)	G	G

2. ROLES & RESPONSIBILITIES

Our group decided to use scrum as our main developing methodology and we choose taiga.io to manage our project development. Also, we have assigned each member to a specific role based on individual experience.

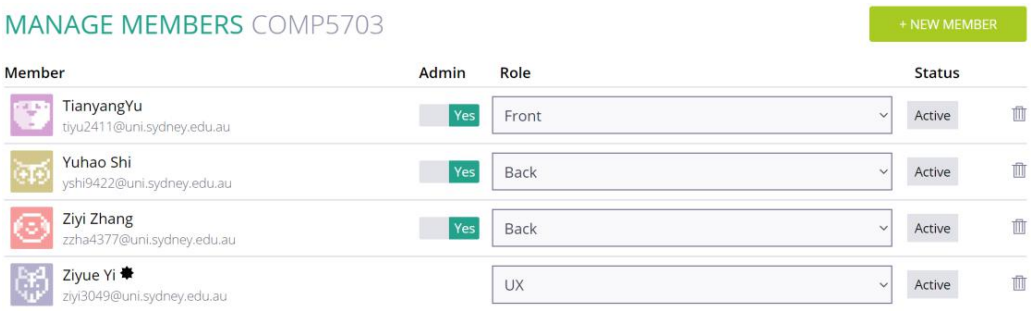

Figure 1. Screenshot on Taiga.io

I am mainly focusing on back-end development. I am responsible for designing the database schema and the back-end functions to meet the requirements of the project. I will also be responsible for testing the developed features to check their integrity and correctness.

3. INDIVIDUAL ACHIEVEMENTS

I worked on our database design. I went through the requirement document and define the main data tables that we are going to need in the website development.

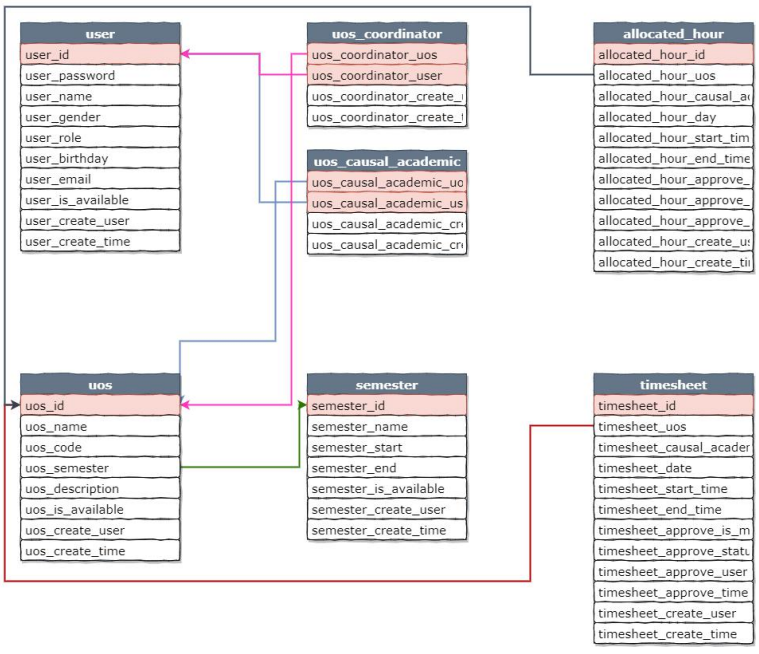

Figure 2. Database Schema

First I drew a database class diagram. In each table, I listed all needed columns and connected the columns that are related. The columns with red background are the keys of their tables. After that I wrote the SQL queries for Mysql database to create the tables in the above diagram. Here is a screenshot of part of the SQL queries.

```
-- ----------------------------
-- Table structure for `user`
-- ----------------------------
DROP TABLE IF EXISTS `user`;
CREATE TABLE `user` (
  `user_id` char(8) NOT NULL COMMENT 'the user id',
  `user_password` varchar(15) NOT NULL DEFAULT '000000' COMMENT 'the user password',
  `user_name` varchar(5) NOT NULL COMMENT 'the user name',
  `user_gender` char(6) NOT NULL DEFAULT 'male' COMMENT 'gender of the user',
  `user_role` int(10) unsigned NOT NULL COMMENT 'the role of the user',
  `user_birthday` date NOT NULL COMMENT 'birthday of the user',
  `user_email` varchar(50) NOT NULL COMMENT 'email of the user',
  `user_is_available` tinyint(4) NOT NULL DEFAULT '1' COMMENT 'the available status of the user account(0: unavailable, 1: available)',
  `user_create_user` char(8) NOT NULL COMMENT 'the user who create this user',
  `user_create_time` timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP COMMENT 'the time when this user is created',
  PRIMARY KEY (`user_id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

-- ----------------------------
-- Table structure for `semester`
-- ----------------------------
DROP TABLE IF EXISTS `semester`;
CREATE TABLE `semester` (
  `semester_id` int(10) unsigned NOT NULL AUTO_INCREMENT COMMENT 'auto-generated id for semester',
  `semester_name` varchar(15) NOT NULL UNIQUE COMMENT 'name of the semester',
  `semester_start` date NOT NULL COMMENT 'the start date of the semester',
  `semester_end` date NOT NULL COMMENT 'the end date of the semester',
  `semester_is_available` tinyint(4) NOT NULL DEFAULT '1' COMMENT 'the available status of the semester(0: unavailable, 1: available)',
  `semester_create_user` char(8) NOT NULL COMMENT 'the user who create this semester',
  `semester_create_time` timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP COMMENT 'the time when this semester is created',
  PRIMARY KEY (`semester_id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

-- ----------------------------
-- Table structure for `uos`
-- ----------------------------
DROP TABLE IF EXISTS `uos`;
CREATE TABLE `uos` (
  `uos_id` int(10) unsigned NOT NULL AUTO_INCREMENT COMMENT 'auto-generated id for the unit of study',
  `uos_name` varchar(255) NOT NULL COMMENT 'name of the unit of study',
  `uos_code` varchar(10) NOT NULL COMMENT 'code of the unit of study',
  `uos_semester` int(10) unsigned NOT NULL COMMENT 'the semester id for the unit of study',
  `uos_description` varchar(255) NOT NULL COMMENT 'the description for the unit of study',
  `uos_is_available` tinyint(4) NOT NULL DEFAULT '1' COMMENT 'the available status of the semester(0: unavailable, 1: available)',
  `uos_create_user` char(8) NOT NULL COMMENT 'the user who create this unit of study',
  `uos_create_time` timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP COMMENT 'the time when this unit of study is created',
  PRIMARY KEY (`uos_id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

-- ----------------------------
-- Table structure for `uos_coordinator`
-- ----------------------------
DROP TABLE IF EXISTS `uos_coordinator`;
CREATE TABLE `uos_coordinator` (
  `uos_coordinator_uos` int(10) unsigned NOT NULL COMMENT 'the id of the unit of study',
  `uos_coordinator_user` char(8) NOT NULL COMMENT 'the id of the coordinator',
  `uos_coordinator_create_user` char(8) NOT NULL COMMENT 'the user who create this relationship between uos and coordinator',
```

Figure 3. SQL Queries

4. GROUP COLLABORATION

In this week, we had two group meetings and all the group members were present. The first one is the weekly meeting with tutor and other is client meeting on Wednesday at 16:00. In the first meeting, we had a brief communication and got the general idea of what is going on and what our tasks in the next few weeks. We created a WeChat group and invited the tutor.

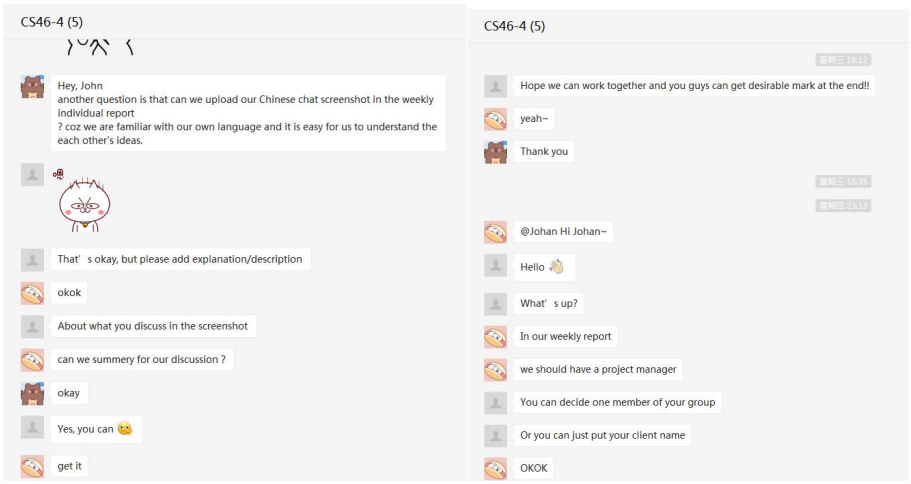

Figure 4. Wechat Screenshot within Our group

After the meeting with our tutor, we contacted our client and arranged an appointment at 6:00 pm. Two of our clients John Stavrakakis and Xi Wu met us through online zoom meeting. Luckily, I know our client John well, because I took three of his courses in my bachelor degree. After brief introduction, John went through the project requirements and cleared some of the confusion in the project requirements. I asked one question about the roles in the project description and John also explained many of other terms in the project requirements.

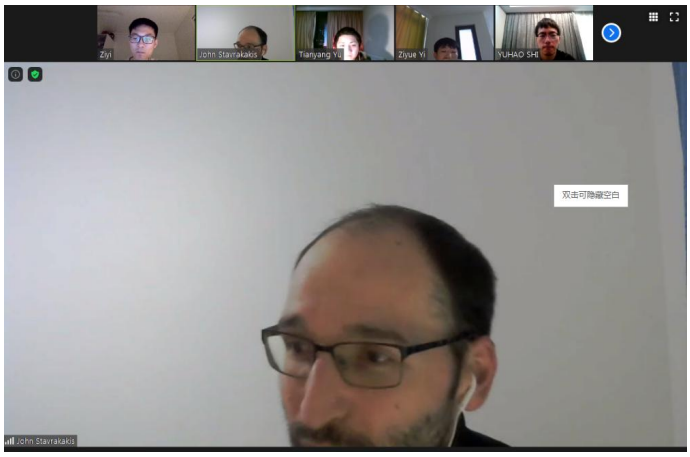

Figure 5. Meeting with Clients

At the rest time of the week, we are working on gathering the requirements and define needed functions in a clear way. Some of the members worked on the process diagram of the system and I mainly worked on the design of the database schema. We use the WeChat group to discuss our ideas and clarify requirements.

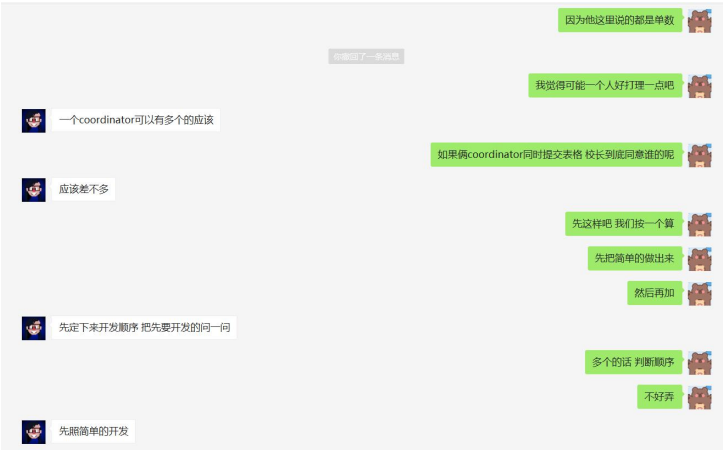

Figure 6. Discussion with other team members on Wechat