**Project General Plan**

1. **Project aim**

* building a web-based secure role-based system for eTutoring in a large university.

1. **The role of each member**

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| --- | --- | --- |
| Role | Name | work |
| Designer | Nguyễn Minh Tâm | Design user-interface |
| Front-end | Vũ Trần Trung hiếu | Develop user-interface base on the design |
| Back-end developer | Trần Ngọc Huy | Develop function base on requirement |
| Database design | Lê Tiến Dũng | Develop database |
| Tester | Lê Tấn Nguyện | Test function with many case that can happen |

1. **Team planning**

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| **Week 1** | |
| **Name of work** | **description** |
| Discussion | Determined place meeting |
| Role Definition | Define role and divide the work for members |
| Rule Definition | Set up rules for group activities |

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| --- | --- |
| **Week 2** | |
| **Name of work** | **description** |
| Write user-stories | Describe feature from brief |
| Define user-stories | analyze and set priority for requirement |
| Create product backlog | Define role and divide the work for members |

1. **Project objectives**

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| --- | --- |
| **Objectives** | **description** |
| All student must have a personal tutor | Each student will have personal tutor to manage their study |
| Any authorized member of staff can allocate or reallocate personal tutors to students. | Personal tutor for students can be allocate or reallocate by authorized member of staff |
| The student and the personal tutors will get notification emails when allocate or reallocate happens | The system will notify to students and the personal tutors when the allocate or reallocate happen |
| Bulk allocation of students to their personal tutor (eg 10 at a time) needs to be implemented. | Member of staff can Bulk allocation of students (eg 10 at a time) to personal tutor |
| All students and their tutors are to use the eTutor system for messaging, arranging and recording meetings (both real and virtual), uploading documents and commenting on them, and for blogging. | All students and personal tutors can use eTutor system to messaging, arranging and recording meeting (both real and virtual), the system also allow to upload documents and commenting on them and for blogging. |
| Email between students and their personal tutors is to be used only for notification of events recorded in the backend database. No other content is to be sent via email. | No content other than events stored in the database will be notified via emails to students and personal tutors |
| Student and staff data is accessed from the university MIS system. The maintenance of this is outside the scope of this project. | The maintenance of Student and staff data is outside the scope of this project. |
| Each student will have their own personal dashboard summarizing their interaction with their personal tutor. | The interaction between students and their personal tutors will be summarized through each student's personal dashboard. |
| Each personal tutor will have a dashboard of their personal tutees that can be sorted and filtered appropriately | Each personal tutor will have a personal dashboard for their students, which makes it easy to sort and filter. |
| Authorized staff will have access to the dashboards of other staff, and to individual dashboards for students. | Authorized staff can access personal tutor dashboards and students personal dashboards. |
| The interface must be suitable for all devices (eg mobile phones, tablets, desktops) | The website must be a responsive website. |

**User stories form**

* As a tutor, I want to see all of necessary information of students who are taught by me. So that I can check absent or attendance easier, avoiding the litigation when they finished that courses.
* As a staff, I want to allocate or reallocate personal tutors to students.
* As a student (or personal tutor), I want to be notified via email when allocating or reallocating happens
* As a staff, I want to allocate a huge number of students (10 students at time) to the personal tutor. So that I can save my time for the other works as well as run this work more quickly.
* As a student (or personal tutor), I want to use this system to write blog, send message for each other, arrange as well as recording meetings, upload documents and comment on them. So that the interactive between student and tutor as well as student and student closer, make me feel interested in each lecture.
* As an administrator, I want eTutor system to send to each students and personal tutors the automatic email to notify about specified events or schedules.
* As a student (or personal teacher), I want my data is accessed from the university MIS system, but the impact of this data on university MIS system is not within our management.
* As an administrator, I want each student have their own personal dashboard summarising their interaction with their personal tutor. So that I can observe the conversation of student and their tutor.
* As a tutor, I want a dashboard that can be sorted and filtered appropriately. So that I can optionally adjust the lesson accordingly without having to go through the administrator's permission.
* As an authorized staff, I want to have access to the dashboard of other staff, and to individual dashboards for students. So that I can observe the daily work of tutors and students.
* As a user, I want the software to be compatible with all mobile devices, computers. So that I people can log in to the system with any mobile device or computer.

**Features in user stories**

* Checking attendance or absent.
* Allocate and reallocate personal tutors to students.
* Email notification to students and personal tutors when allocating or reallocating happens.
* Allocate bulk of student at the time for personal tutors.
* eTutor system allow messaging, arranging and recording meetings (both real and virtual), uploading documents and commenting on them, and for blogging.
* Sending to each students and personal tutors the automatic email to notify about specified events or schedules.
* Allow access data from the university MIS system. The maintenance of this is outside the scope of this project.
* Dashboard showing the interaction between student and their personal tutor.
* Personal tutor’s dashboard can sort and filter appropriately.
* Authorize the access to the dashboards of other staff, and to individual dashboards for students.
* Responsive website.

**Bugs**

* Lock attendance modification function after 24 hours.
* Allow students and personal tutor to update personal information.

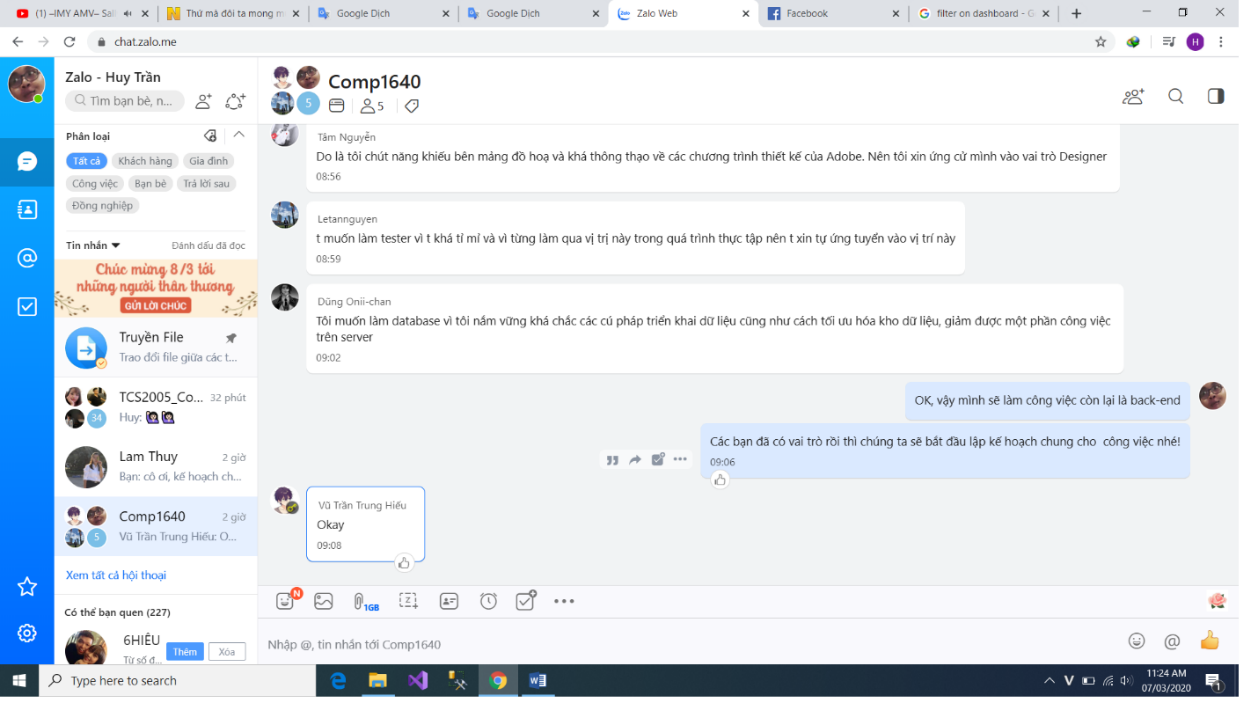
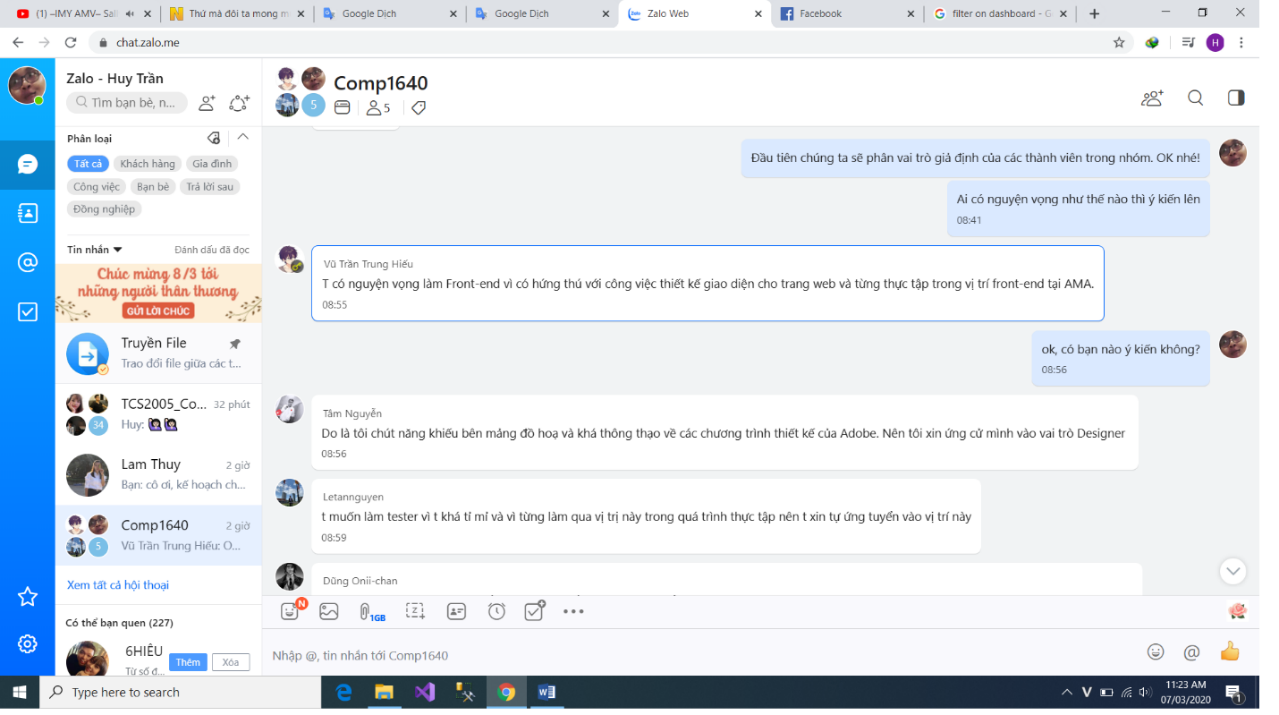
**Technical work**

* Create a common working environment (Visual studio 15 and above, SQL Server 2014 and above, Window 10 Pro)
* Back-end programming language is C #
* Front-end programming languages are HTML, CSS and Javascript.
* Specify the properties of a shared database server in a work environment:
  + Specify Microsoft Azure to be the database server.
  + Specify the server name or IP address of the database server.
  + Specify the type of database running on the database server.
  + Specify the username and password of the database server administrator.

**Knowledge acquisition**

* Research Entity framework for mapping models with databases.
* Research the SignalR library to do real time functional.
* Research the MVC model architecture to develop the eTutor system.

**Team recording message**

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