Extraordinary Gentlemen

Project Management Plan

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GROUP MEMBERS

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VISION

Satisfying all user requirements by utilising the fastest and most cost efficient way. The vision we have for this project is that it should be accessible using any platform. Also, the software should be as user friendly as possible and accessible anywhere in the world. In addition, this software should eventually be provided by all universities and colleges.

SPECIFICATIONS

The software should include:

- One login page
- Log out
- Registers
- Database: containing each student's data. Eg. name, student ID number, how many times they edited per document, etc.

USER STORIES

- The software should be able to run on desktop computers with support for MacOS and Windows. The lowest version of Windows should be Windows 7 and the highest version should be Windows 10.
- I would like the software to work anywhere and have consistency wherever I log in. This will ensure students and lecturers can use it from home.
- I want to be able to assess the individual contribution of each team member so that marks will be able to be distributed based on the level of work put in by each individual member.
- I want a software that marks all papers on time so that I will not have to worry about the consequences of late marking periods and students will be able to get their marks quickly.
- I want to be able to access the student records. The records should contain previous marks, student name and student ID number.

TASK ALLOCATION

Trello

Software to track progress and assign tasks via a virtual kanban state of tasks on cards. We move the cards of completed pieces of the assignment into the done folder once the card has met our requirements for definition of done.

The scrum master assigns the task based on coding knowledge and experience. Also through each member's time table.

TEAM PROCESS MODEL

The team type is project oriented. The process model being used is scrum and the sprints should be on a weekly basis.

PROGRESS TRACKING

For keeping track of progress we will use the trello and github.

MANAGING BACKLOGS

The project backlogs are will be managed through trello and github.

TIME MANAGEMENT

The team will keep track of time spent on each task through trello and github.

DEFINITION OF DONE

According to user stories the definition of done would be when the user is able to use the using any platform. Also, user should be able to login to the software without having any issues. In addition, the user should be able to access all the student records using name or student ID number. As well as, the user should be able to assess the individual contribution of each member based on the participation. Finally, the software should assess all students on time.

Risk Register

Team member falls sick or leaves the group due to personal matters

- The estimated impact would be that his share of the work will have to be distributed amongst the remaining members. The likelihood is quite low as we have relatively healthy team members and in general having to deal with personal matters in the case of emergencies rarely occur.
- The monitoring strategy would be a monthly health check up as well as conversations about each group member's personal lives if they are willing to share.
- The mitigation plan would be to assign less work per sprint to accommodate the eventuality that one person may not be able to perform

Software fails to run as intended

- The estimated impact would be a delay in official launch to accommodate further testing. The likelihood of this happening is hard to say until actual development of software begins.
- The monitoring strategy would be to have tests earlier than just during the final launch to ensure each part of the software is running smoothly
- The mitigation plan would be to hire experienced software testers to find any bugs in the code.

Client wants to make significant changes

- The estimated impact would be a delay based on the size of the changes as well as an increase in cost. The likelihood is quite high because clients often tend to change their minds about requirements based on evolving business conditions.
- The monitoring strategy would be to keep communication fluid between the development team and the product owner as is the job of the scrum master.
- The mitigation plan would be to advise the product owner to advise the client about the costs and time taken induced by changes requested to reduce the redundancies requested by the client

Analysis of Alternatives

The Language(s) in use will be Python, Php and MySQL.
Alternative Languages: Java, Html, CSS, Javascript.

Python will be used for client side implementation and a lot of our team members are familiar with it. It is also a rapid development language which does not require a lot of code to be efficient and in a working state. There are also a lot of free IDE's available such as PyCharm which can be used. The programme is thus supported on all platforms the Python engine can run on, such as Windows, Mac OS, Android. The Php and MySQL has already been implemented in a previous project done by Alano (http://anzen-learning.xyz), which will save us a lot of time with a streamline design.

The Python programme will send http requests to the Php scripts to send and retrieve the information the client needs from the database. This insures a lower chance of data loss and a smaller impact on the user's machine. Refer to the table on the next page.

Programming Language	Functional / OOP	Cost
Python	Both	None
Java	OOP	None
PHP	Both	Server fees may apply
MySQL	Functional	Server fees may apply
Javascript	Functional	None
HTML	N/A	None
CSS	N/A	None

There will be no cost with using Python, Php or MySQL. For hosting the Php and MySQL there are free services such as GitHub Student Developer Pack.