Group Project – Interim Group Report

Client: Dr F C Langbein

Product

Owner: C Allen

Team 1: R Watson

A Lamnea

W Cooter

S Tomlinson

Team 2: Ellis Doran

E Joiner

H Nicholson

J Davies

Back End: Ethan Kelly

Group 10 was broken into three primary work groups. Team 1 and team 2. I broke it down like this so that the work could be shared out with more structure. This allowed the authority to be shared too by having two team leads. I felt this was the best approach initially as it allowed the task to be broken down into a series of manageable tasks which could be concurrently developed.

Following our initial meeting with the client we a number of requirements that we broke into functional and non-functional requirements.

|  |  |
| --- | --- |
| Functional | Non-functional |
| Upload proposals | Flexible on group members |
| Assign students to groups | Must function on minimum input |
| Manually add/remove students | Must be easy to add to |
| Provide mark moderation | Must present a username |
| Must ensure simultaneous release of marks | Must include tools to help students complete group project |
| Mark deadlines |  |
| Give students tools to manage projects |  |
| Allow for pseudo-random assignment to groups |  |

In order to meet these criteria we broke the system into 4 major parts which should work together to various degrees in order to successfully meet all requirements. These are a file upload system, a grouping tool, project tools and a grading tool.

We started development of the file upload system to begin with, this allowed us to produce a core system, which could be added to later in order to allow mark moderation and a grouping tool together. The file upload system was given to team 1 in order to provide a working foundation for all the code we would produce.

To guide Team 1 through the development process I generated some testable requirements to meet throughout the design. These were developed from the requirements given by the client and from issues we identified in the planning process.

To speed up development it was my choice to develop a python script to produce a list of students that are formed into groups. This allowed the development of the most important and the hardest to implement tools first. Following these two tools development my plan was to present to the client the option to have both of these tools separately working or whether to integrate them.

Team 1

[Delete everything between square brackets when done, these are a content guide and should help the report follow the same themes require for your part of the report]

[Short intro:

-Requirements

-How you expected to meet them]

[2-4 para

-How you planned your data structure use (why you used array instead of map or w/e)

-Talk about cohesive code design

-Talk about how it is coupled with other elements of the program

-Explain how it solved the problem]

[UML of your part of the system (speak to Chloe if you need help)]

[3-5 paragraphs

-Explain how the testable criteria was met

-Explain issues you have encountered

-Talk about how you think these issues could be solved]

[Summary

-Explain why the structure of your program is the best within the requirements

-Talk about team level decisions you would redo]

Team 2

[Short intro:

-Requirements

-How you expected to meet them]

Our team was given a number of requirements for our system to contain. The requirements were:

* Upload a CSV file
* Parse data from a CSV file
* Write sorted students to CSV
* Allow data from the CSV to be viewable
* Display data by Name/Student number
* Allow sorting of the groups manually and randomly
* Allow remain group members to be randomly selected
* The program should be able to terminate

We met regularly as a team and set up a group chat to improve communication so we could check in with each other every now and then to see where we were all at with our work and that we were on track with deadlines we had set ourselves. We discussed during our first meeting how we thought the system should look and how a user should be able to use it so while discussing this we kept the requirements in mind and based our ideas around them.

[2-4 para

-How you planned your data structure use (why you used array instead of map or w/e)

-Talk about cohesive code design

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[UML of your part of the system (speak to Chloe if you need help)]

[3-5 paragraphs

-Explain how the testable criteria was met

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Our main issues were to do with coding and figuring out how we would go about coding the different part of the system. During the team meetings we discussed ideas on how we were going to tackle the different features and the coding they would require. The main feature we struggled with was creating the groups which the students would then be put into either manually or randomly. We had difficulty finding a way for a button to create a number of groups and then have those groups be fillable with students. At first the students were only being put into the first group when being randomly assigned …….

Another issue we encountered that had a big impact on our team was team members falling ill which meant we were not able to meet up as a team as a whole. We were still able to communicate through our group chat but we were not able to physically come together and show and discuss where we were at with the project so far…….

[Summary

-Explain why the structure of your program is the best within the requirements

-Talk about team level decisions you would redo]

Straight forward to use

Basic layout(not complicated)

Meets all the requirements

Back-End

[Short intro:

-Requirements

-How you expected to meet them]

I’m Ethan, and I managed the ‘Back-End’ of the project. It’s my job to organise the GitHub, fix code issues which arise during development and construct the database for the final system.

Am I relating to the requirements mentioned above, or are there specific requirements for my section of the project I need to address?

Also is this intro too informal? And does it cover everything I need to cover (other than the requirements which of course need to be added)?

[2-4 para

-How you planned your data structure use (why you used array instead of map or w/e)

-Talk about cohesive code design

-Talk about how it is coupled with other elements of the program

-Explain how it solved the problem]

One issue we noticed during the development of our project, was that the file upload system and grouping tool handled data in two very different ways. The file upload system used a file directory which was only accessible to the PHP files used to make the website and provide functionality to the system. The grouping tool used a CSV file which would load in the appropriate fields related to students, and then after grouping students, the updated data would be exported to a new CSV file.

In order for these two systems to work together efficiently on the same website, we need to centralise the data into a database. This database will store data for the whole project. Relevant data will be retrieved/updated/deleted when the corresponding part of the website invokes the database.

Am I on the right track in terms of justifying why we plan on using a database?

Would paragraphs going over the following cover everything?

* Why we need a database
* How the database makes the program more cohesive
* How the database links up the parts of the program
* How the database solves the issue of making data handling consistent and easily changeable in the future to add more features

If these bullet points do cover everything, what should I make sure I include in particular?

[UML of your part of the system (speak to Chloe if you need help)]

Definitely going to ask about this one.

[3-5 paragraphs

-Explain how the testable criteria was met

-Explain issues you have encountered

-Talk about how you think these issues could be solved]

Is this section relevant to me? I personally haven’t had to consult test criteria.

[Summary

-Explain why the structure of your program is the best within the requirements

-Talk about team level decisions you would redo]

Explaining why the database is good (again) in relation to requirements?

In terms of team level decisions, as I was on my own, would it be more appropriate for me to focus on the need for me to possibly be given a task to do in the meantime whilst I’m not needed on the git/bugfxing/database stuff?