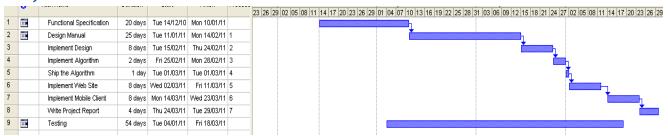
Tradesmen.ie

Project Plan

Ilya Biryukov. C00117434@itcarlow.ie, ilya@curiousdeveloper.net 13/12/2010

Mentor: Joseph Kehoe

Project Plan - Gantt Chart



Step Details

- 1. Functional Specification describe what the final solution will do and briefly outline how the user will interact with it without providing any technical details on what technologies will be used or how anything will be implemented. (20 days)
 - a. Identify the list of non functional requirements and document them in a supplementary specification. (2 days)
 - Identify the users of the system and create brief use cases showing how each of the users will interact with the system and what functions each user will be able to perform (3 days)
 - c. Identify as many pages as possible that will be present on the web site and mobile application. (4 days)
 - d. Design a prototype user interface for each of the pages and its content (text, forms, buttons, etc) and document what action every button/link will trigger. (11 days)

2. Design manual (25 days)

- a. Write detailed use cases for each of the identified pages in the functional specification including success scenarios and alternative flows. (8 days)
- b. Document any error messages that the system might generate during (2 days)
- c. Create the domain model with respect to detailed uses cases. Identify relationships and quantifiers between the objects of the domain model (1 days)
- d. Create system sequence diagrams for each of the use cases (main success scenarios only) showing the flow of responsibilities between the objects of the system.
 Include not only domain objects but also real objects from the MVC pattern and other utilised libraries. (5 days)
- e. Transform the domain model and system sequence diagrams into a class diagram that will be the final architecture of the system. Provide methods and properties for all classes their input and output parameters. (5 days)

- f. Design the database that will be able to hold data from the domain model and provide quantified relationships between tables (3 days)
- g. Document the testing procedure how the software system will be tested (1 day)

3. Design Implementation (8 days)

- a. Implement the Model layer of the software with respect to the created design manual. Generate all identified classes and domain objects and code functionality for each of the methods in each class. (3 days)
- b. Transfer the database design (tables) into a real MySQL server database (1 day)
- c. For each class, write a Unit Test verifying that the class functions as specified and expected (4 days)

4. Algorithm Implementation (2 days)

- a. Implement the proposed algorithm in code that will take the created domain model, process it and output the desired results (1 day)
- b. Test the algorithm with unit tests (1 day)

5. Ship the algorithm (1 day)

- a. Create a simple REST API that clients will be able to call in order to get the output of the algorithm
- b. Test the newly created API with unit tests, ensuring that API works as expected
- c. Create an Installation/Usage Manual that will document how to use the algorithm including necessary data that needs to be fed to the algorithm in order for the algorithm to execute successfully. Also, created a detailed installation manual, outlining software and environment requirements and a detailed step-by-step installation process
- d. Package the software for production and send away

6. Implement the website (8 days)

- a. Design the overall look & feel of the website (½ day)
- b. Design each individual web page identified in the use cases and place all HTML files in accordance with MVC framework requirements (1 & ½ days)
- c. For each use case, write a controller that will link the data (model layer) and the html files (view layer). Therefore, implement all pages. (5 days)
- d. Test individual page with unit cases (where possible) ensuring that the web page behaves as specified. (1 day)

7. Implement mobile client (8 days)

- a. Create user interfaces for each page on the mobile platform identified in functional specification and design manual use cases (4 days)
- b. Create an API layer in software that will allow the mobile client to consume it through retrieving and storing data (1 day)
- c. Test the mobile client manually of iPhone and Android platforms ensuring that the functionality conforms to specification (3 days)
- 8. Write the project report (4 days)
 - a. Create a detailed project report outlining how the project progress, its outcome and other relevant information.