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CS335 Software Engineering and Software Process

**Project Development Journal**

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| **Name:** | **Ryan Orimaco** |
| **Student Number:** | **19323013** |
| **Programme/Class:** | **CS335** |
| **Team:** | **26** |
| **Project Code:** | **MU-CS335-21-1PL** |
| **Project Description:** | **Albatel has her own IT infrastructure, i.e., the company’s website. The construction and management of the website were outsourced. The company’s website is based on the WordPress platform and hosted by a third-party hosting company. Permissions for configuring the hosting environment to accommodate future customized web applications are very limited.**  **The company has a long-term plan, aiming to provide their HR related services through an integrated software platform. For example, allowing multiple employee applications feed information (e.g., time, attendance, payslips and pension, etc.) into one unified platform for comprehensive analysis and management. At this initial phase of the transition, the company is exploring some webbased online questionnaire and automated HR health check report generation services. This exploratory service should be easily integrated with the company’s existing website without affecting existing functions or incurring major modifications.**  **The objective of this project is to provide an interactive web-service that allows the company’s customers to take online questionaries, and based on their responses received, an analysis report will automatically be generated for the customer to download.**  **The initial high-level requirements are listed below:**  **1. Questions are grouped based on the types (HR related); each group shall be displayed on a separate page.**  **2. After receiving responses, an analysis shall be conducted on a per page basis.**  **3. At the end of the questionaries, the user shall click the “submit” button to submit his/her responses.**  **4. After submitting the responses, the customer will be redirected to a download page to download the report.**  **5. In the report, the analysis results must be represented graphically along with the questions and responses.**  **6. The report must be in PDF format.**  **7. As the IT service administrator doesn’t want to take the risk to modify the current website structure, this means the integration of the service shall be provided as a web-redirect link. This also implies that the newly created service can be developed and deployed independently.**  **8. The expected number of customers consuming the service is relatively small. However, as the company’s business expands, the popularity of the service may increase significantly, thus the scalability of the service is important to the longterm plan of the business.**  **9. The service will be provided as one of the premium services of the company, thus the performance and availability are important factors for the company.**  **10. Security is vitally important for business continuity. However, as this project is an extension function to the existing services, thus it should be protected by the existing authentication and authorization services already in place. Considering using a shared session ID as an authentication method for the new service** |

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| **Section 1 (Individual Work)** | **Identify the general process model(s) for your project** |
| **Task Description:** | **Based on the knowledge you have learned, select the general process model(s) suitable for your case study project.**  **Hints:**   * **What are the characteristics of the general process models?** * **What are the characteristics of the project (brainstorming)?** * **Can we possibly gather all the desirable requirements at once?** * **Are we going to develop all the components that we envisage?** * **Does the project time frame allow us to take on a particular software process model?** * **How are we going to encourage our investor to continuously invest on the project?**   **Note: this should be maximum one page.** |
| **General Process Model(s) Identified:** | Waterfall Model |
| **Rationale:** | The Waterfall Model is a step by step very detailed General Process Model which contains a good set up of activities and dependencies. The Waterfall Model is a good choice for this project, the company requires a questionaire for their clients. The following reasons why we chose the waterfall model is stated below:   * It will be easier for the group to gather functionalities and information. * The group only had 6 weeks to complete the project, it makes each work and review session easier to understand if we used Incremental or V-Model it makes the work more complicated. * The tasks that Albatel used are well defined and understood which makes the Waterfall Model easier to use for this project. * The project from our brainstorming requires the gathering for very few or little functionalities and components this makes Waterfall Model a lot easier to use due to the rigidity of it. * Through the use of the Waterfall Model we continuously maintain and improve every few months to maintain trust and continuously encourage our investors to invest in the project. Waterfall Model makes these ideas much easier. |

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| **Section 2 (Individual Work)** | **Identify and Plan for your project using Agile Methods** |
| **Task Description:** | **Based on the knowledge you have learned, select a suitable Agile method (Scrum, XP, or Scrum/XP Hybrid) for your project.**  **Tasks:**   1. **Describe how you would employ the Agile method for your project** 2. **Explain why the selected Agile method is suitable for your project.**   **Note: this should be maximum 2 pages.** |
| **Agile Methods Identified:** | Scrum |
| **Rationale:** | Personally, a suitable agile method could be just a traditional Scrum method. Scrum method. The reason why the scrum maybe feasible is because our project did not require loads of resources but loads of effort from the team. Scrum helps us plan each session and helps us compare each other’s work in that sprint duration.  The way we employ Scrum is that we designate 2 people to us to be our Scrum Master and the Product Owner. The Scrum Master will be responsible for setting up the team while the Product Owner is responsible for creating the product backlog and priorities for the team.  Scrum will allow us with our limited resources to create a Sprint easier. The Sprint can then help us find our what the problems and since the Scrum needs a few folks in hand it helps us work together as a group to solve problems and tasks that the project endures.  The Scrum for our project will entail a 2-week intense Sprints. The Scrum Master shall set up the team and the Product Owner will set up the problems and a task for the group to work on. Then as a group, the group including the Scrum Master and the Product Owner will work together to gather information and solve the problems faced in the project using Daily Scrums, which is a sprint session that occurred every day for 20 minutes in that 2 week period.  After each Daily Scrum and each biweekly sprint, the Scrum Master will review the work and see if the goal in hand was met and if the standard of work was satisfiable or not.  Personally, I feel like a Scrum Project works best in this due to the following reasons in the bullet points below:   * A Scrum project helps us keep our priorities and helps us keep our project tasks done before the chosen deadline. * Scrum helps us save time especially in the 6 weeks we worked at * The group will have limited resources to do this project, but the group will incur loads of changes by the company responsible for this project. By operating in a biweekly cycle, Scrum makes it easier to handle any changes proposed by the sponsored company. * Working as a Scrum team can help the group deliver our reviews and the product in small chunks which makes the deliver value very quick. * As someone who likes working with people, Scrum can help each member of the team have a sense of responsibility. The Scrum focuses more on quality and openness. * Since the group has very little resources at our disposal. Scrum also helps to optimize the groups efficiency and the quality of work. |

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| **Section 3**  **(Teamwork)** | **Requirements Engineering (User Stories and Scenarios)** |
| **Task Description:** | **Based on the knowledge you have learned, create as many *User Stories* as possible. (Teamwork)**   * + **Create as many User Stories as possible for your project. The aim is to understand the procedures or workflow of the program based on the CURRENT understanding on the project requirements**   + **Select as least 5 most important User Stories, and format them with detailed description using the template provided in the session (Slide 39)**   + **Make sure all your User Stories are stored in JIRA too** |

**Make multiple copies of the following tables if you have more user stories or formal requirements.**

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| **User Story Name:** User would like to click on the link that redirects them to the questionaire. | |
| **Description:** As a user, I have decided to complete the HR Questionaire, I will require a link to the Questionaire page to complete this questionaire. When going into the link I would like to be redirected to the questionaire page, which tells him to be redirected to login details. | **ID:** |
| **Status Done** |
| **Sprint:1** |
| **Story Point Estimate:** |
| **Assignee:** |
| **Reporter:** |
| **Acceptance Criteria:**   * I will require a link to the questionaire page. * I will be redirected to the questionaire page. | |
| **Comment:** | |

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| **Function:** | **Link** |
| **Description:** | **User will be directed to the link of the questionaire** |
| **Input:** | **A link to the page** |
| **Source:** | **Link** |
| **Outputs:** | **Questionaire Login Page** |
| **Destination:** | **Login page** |
| **Action:** | **Goes to the link.** |
| **Requires:** | **Clicking on the link** |
| **Precondition:** | **That the link to the Questionaire is valid** |
| **Postcondition:** | **That the user will be able to go to the Questionaire login page** |
| **Side-effects:** | **None** |

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| **User Story Name:** User will answer the question | |
| **Description:**  Each question requires an answer as it is a questionaire. As a user who is currently doing questionaire, I will require to answer the question using radio buttons. I will need 3 options to choose from depending on the confidence level I have about each question, ranging from red (least confident) to green (most confident). | **ID: 1** |
| **Status: To Do** |
| **Sprint:1** |
| **Story Point Estimate:** |
| **Assignee:** |
| **Reporter:** |
| **Acceptance Criteria:**   * I must choose one of the 3 options. * I cannot choose more than one option. | |
| **Comment:** | |

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| **Function:** | **Clicks on the users chosen option** |
| **Description:** | **When the user clicks one of the 3 options, the user will know that they have chosen the correct radio button when it clicked** |
| **Input:** | **3 radio buttons red, amber, and green.** |
| **Source:** | **Radio Buttons** |
| **Outputs:** | **Another circle telling the user that they have chosen the option of their choice** |
| **Destination:** | **That section of the questionaire** |
| **Action:** | **Clicking of radio buttons** |
| **Requires:** | **Clicking of radio buttons** |
| **Precondition:** | **Users must think what option they would like to choose before choosing the appropriate option** |
| **Postcondition:** | **User will be able to go to the next question.** |
| **Side-effects:** | **None** |

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| **User Story Name:** User shall fill in details about their company before starting the questionaire. | |
| **Description:**  As a user, I require to login information about my company before attempting the questionaire. I will need to fill in the following details as shown in Acceptance Criteria. If I fail to fill in parts of the form, there will a red line that tells them I have missed that certain part of the form. Else I user can be able to click the a button and begin the questionaire | **ID: 3** |
| **Status: To Do** |
| **Sprint:1** |
| **Story Point Estimate:** |
| **Assignee:** |
| **Reporter:** |
| **Acceptance Criteria:**   * I must fill in the following details before starting the questionaire:  1. Company Name 2. Business Sector 3. Number of Employees 4. Company Location 5. Contact Name 6. Contact Job Title 7. Contact Email 8. Contact Telephone | |
| **Comment:** | |

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| **Function:** | **User must fill in details about their company** |
| **Description:** | **User must use a text box to fill in details about their company** |
| **Input:** | **Text box and a button** |
| **Source:** | **Text Box** |
| **Outputs:** | **User can login if all the text boxes have been written** |
| **Destination:** | **Database** |
| **Action:** | **Able to start the questionaire** |
| **Requires:** | **Users to click on Start the quiz** |
| **Precondition:** | **User must complete the whole form before starting the page** |
| **Postcondition:** | **User will be able to be redirected to the Questionaire page.** |
| **Side-effects:** | **None** |

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| **User Story Name:** Share my PDF Results | |
| **Description:**  As a user, sometimes I do not have time to even check the results, this makes me very annoyed at myself, but I would like an option in the Results page to allow me to share my work to my workers through a link option. | **ID: 4** |
| **Status: To Do** |
| **Sprint:1** |
| **Story Point Estimate:** |
| **Assignee:** |
| **Reporter:** |
| **Acceptance Criteria:**  The following criteria must be needed for me to send my results to my workers.   * Download button to download my results * Link to allow me to share my link to my workers | |
| **Comment:** | |

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| **Function:** | **User must be able to share and upload their results** |
| **Description:** | **User must click on a download button** |
| **Input:** | **Download Button** |
| **Source:** | **Button** |
| **Outputs:** | **A popup will show up that will say that the user has downloaded the file** |
| **Destination:** | **User’s storage file** |
| **Action:** | **Can click on downloaded results** |
| **Requires:** | **Completion of the quiz** |
| **Precondition:** | **Users must complete every question of the quiz** |
| **Postcondition:** | **User can be able to view the downloaded file in a PDF format and send it to the workers** |
| **Side-effects:** | **None** |

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| **User Story Name: PDF Results** | |
| **Description:**  As a user, after the completion of my questionaire, I would like to have the ability to see my results. The results must be seen by the use of a button that will redirect me to either downloading or a full page of my results in a PDF Form | **ID: 1** |
| **Status: To Do** |
| **Sprint:1** |
| **Story Point Estimate:** |
| **Assignee:** |
| **Reporter:** |
| **Acceptance Criteria:**   * **Button to allow me to see my results in a PDF Form** | |
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| **Function:** | **Clicks on a button** |
| **Description:** | **When the user clicks the button it should be to popup a full page full of the users results** |
| **Input:** | **Button** |
| **Source:** | **Button** |
| **Outputs:** | **Redirection to the PDF of the Results** |
| **Destination:** | **Database** |
| **Action:** | **Clicking the button** |
| **Requires:** | **User to be clicking the button to redirect them to the PDF page** |
| **Precondition:** | **User must have completed the full questionaire and database must have calculated the results** |
| **Postcondition:** | **User will have the ability to share or download the file.** |
| **Side-effects:** | **None** |

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| **Section 4** | **Project Development with Scrum (Sprint 1)** |
| **Task Description:** | **You will have 6 weeks for the project design and development. We will divide the project into 3 Sprints with each of which having 2 weeks long. For each Sprint, you need to document:**   * **your Sprint plan, including:**    + **the sprint goal,**   + **how many user stories you want to complete in this sprint and how many sprint-points your team plans to burn?**   + **which user stories are in the sprint backlog?** * **sprint review and retrospective**    + **what went well, what went wrong?**   + **review the timeline and identify the most valuable item(s) to implement in the following sprint,**   + **identify any potential improvement.**   **Section 4, 5, & 6 are teamwork, but at the end of the project, the journal needs to be submitted individually, thus you need to make sure you highlight the contribution(s) that you made to the journal.** |
|  | **Sprint Goal:** Context Diagram and User Case  **Sprint Aim:**   * Work together to understand what kind of Context Diagram and User Case Stories are * Understand what kind of problems can incur in the Context Diagram and for individual work create. * Work as a group to brainstorm ideas for a Context Diagram.   **Sprints Procedures:**  **Week 1:**  In our first week for this Sprint session, this Sprint Session lasted for about an hour with 2 30-Daily Sprints occurring. We first started off brainstorming ideas for the Context Diagrams, this brainstorming session lasted for the about 30 minutes and through a democratic vote I was assigned the Scrum Master. This brainstorming session lasted for about 30 minutes. 15 minutes for the brainstorm and the 15 minutes for the review and a vote. Just for simplicity we started putting all our agreed ideas into a Product Backlog.  One of the things we managed to learn was the fact Context Diagrams is really needed for this project, the project required loads of functionalities, so we the brainstorm as a group helped us understand what kind of buttons and other functionalities was needed in the page.  After that Context Diagram Sprint, we reviewed each other’s work for the final 30 minutes.  Conclusion of this Sprint session:   * The overall session went decent, the brainstorming approach at the first 30 minutes really helped us understand the problems that was enticed to us by Albatel. * The most valuable thing we got was that we require needed to create a Login page and helped us understand what kind of functionalities and sections are needed before we do a coding implementation.   **Week 2:**  In the second week of this sprint, it was a rather easy and laidback Scrum session just aiming to work on User Case Stories and User Case Diagrams, there was no need to brainstorm ideas as most of ideas was already implemented through our understanding of the Context Diagrams. As a collective group we agreed on making 4 User Case Stories each reviewing each User Case Stories we created.  I created 4 User Stories, one for login information, the buttons required, the downloading of the PDF and a link to allow the user to send their results to their peers. Overall, this Scrum session was simple yet important session.  Conclusion of this Sprint session:   * Overall, this Scrum session was simple yet important session. * The most valuable thing we understood in this Scrum Session was the User Case Stories we implemented it helped us understand what kind of thing the User may want and what kind of problems can occur. * We also agreed to work on a few User Case Stories during coding implementation which we planned for the last Sprint Session. |

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| **Section 5** | **Project Development with Scrum (Sprint 1)** |
| **Task Description:** | **You will have 6 weeks for the project design and development. We will divide the project into 3 Sprints with each of which having 2 weeks long. For each Sprint, you need to document:**   * **your Sprint plan, including:**    + **the sprint goal,**   + **how many user stories you want to complete in this sprint and how many sprint-points your team plans to burn?**   + **which user stories are in the sprint backlog?** * **sprint review and retrospective**    + **what went well, what went wrong?**   + **review the timeline and identify the most valuable item(s) to implement in the following sprint,**   + **identify any potential improvement.**   **Section 4, 5, & 6 are teamwork, but at the end of the project, the journal needs to be submitted individually, thus you need to make sure you highlight the contribution(s) that you made to the journal.** |
|  | **Sprint Goal:** Sequence Diagrams, Class Diagrams and start of plan of the coding implementation of Questionnaire.  **Sprint Aim:**   * Work together to understand what kind of Sequence Diagrams and Class Diagrams * Understand what kind of problems can incur in the Sequence Diagrams and for individual work create. * Understand what kind of problems can incur in the Class and for individual work create. * Rough plan of the coding implementation of the questionnaire using the understanding of the Sequence, Class, User Case and the Context Diagrams. * Work every Saturday for two weeks to implement the Sequence and Class Diagrams and after that we plan the coding implementation during each session.   **Sprints Procedures:**  **Week 1:**  For the first sprint session, we implemented Sequence Diagrams. Sequence Diagrams helps us understand the overall system we designed in an arranged time sequence. Before starting the first 15 minutes of the sprint was dedicated to brainstorming ideas for the Sequence Diagrams. As a collective group we agreed on many forms of Sequence Diagrams for this Questionnaire, we agreed on doing one Sequence Diagram individual with a section of code of our choice and one we agreed on as a group which was the Questionnaire itself.  The Sequence Diagram I created was the Questionnaire itself and the Login page. The Sequence Diagrams I created contained all the necessary tools required (interaction lifelines, synchronous messages etc.) to create the Questionnaire. One of things that I created in the login page was the Alternative Combined Fragment.  We conduct the Sequence Diagram creation in a Daily Sprint. In the space of 2 hours, we were working that day we worked on each Sequence Diagram in 2 Daily Sprint for 25 minutes each, then reviewed each other’s work for 10 minutes. As a group we reviewed each other’s work by sending the files to the JIRA group and in which we agreed as a group to use member’s Sequence Diagram as a template for code implementation.  After the 2 Daily Sprint sessions, started a 35-minute plan on the implementation of the code. This included understanding the requirements needed, the functionalities required and using the Context Diagrams we created earlier and Sequence Diagrams that we created that day to understand the requirements and what kind of detail is needed before the coding implementation. We all agreed on one thing- that the code needed to be short and simple, yet the results must have a very detailed explanation.  Conclusion of this Sprint session:   * The overall session went well, from the Sequence Diagrams to the brainstorming of the plan. * One negative was the lack of information concerning Sequence Diagrams so before the session started, we as a group agreed to gathering information about what a sequence diagram was. * The most important bits we gathered from the Sequence Diagrams was the login page and questionnaire must be implemented in a simple, yet the content must be very detailed manner which we put in the product backlog.   **Week 2:**  For the second sprint session, we implemented Class Diagrams. Class Diagrams helps us understand the structure of the code when we implemented it. Before starting the first 30 minutes of the sprint was dedicated to brainstorming ideas for the Class Diagrams and to avoid some stress, we looked up so more information about Class Diagrams and some good tips to implement the creation of a Class Diagram and reviewing the information we gathered about Class Diagrams and added the main Class Diagrams into the Product Backlog.  After brainstorming we started the Class Diagrams, my main role was to give the group the work on Class Diagrams we agreed on working on while working and assisting the members if they needed help. I worked on the Class Diagrams on the Login Page and the Questionnaire itself, each Class Diagram was done in a 30-minute Daily Scrum session 20 minutes was dedicated to the implementation of the Class Diagram and the 10 minutes was review session of me and my peers work by myself.  The last 30 minutes was dedicated to another plan of the coding implementation. Using the information, we gathered from the previous weeks Product Backlog and with the use of the Class Diagrams that the group collectively reviewed we made a general consensus of modifying the plan of the Questionnaire and added the necessary improvements in the Product Backlog.  Conclusion of this Sprint session:   * The overall session went well, from the Class Diagrams to the brainstorming of the plan. * Due to external academic constraints, we had a time constraint in the implementation plan of the code so we kind of rushed the brainstorming. * Class Diagram was the most valuable thing we achieved as it helped us understand how to work on the results page for the code. The Results page was one thing that we forgot about and the fact that we need a PDF, and the user should be able to download it. We gave each other a challenge to create a User Case story for the Results as individual work. |

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| **Section 6** | **Project Development with Scrum (Sprint 1)** |
| **Task Description:** | **You will have 6 weeks for the project design and development. We will divide the project into 3 Sprints with each of which having 2 weeks long. For each Sprint, you need to document:**   * **your Sprint plan, including:**    + **the sprint goal,**   + **how many user stories you want to complete in this sprint and how many sprint-points your team plans to burn?**   + **which user stories are in the sprint backlog?** * **sprint review and retrospective**    + **what went well, what went wrong?**   + **review the timeline and identify the most valuable item(s) to implement in the following sprint,**   + **identify any potential improvement.**   **Section 4, 5, & 6 are teamwork, but at the end of the project, the journal needs to be submitted individually, thus you need to make sure you highlight the contribution(s) that you made to the journal.** |
|  | **Overall Sprint Goal:**  Implementation of the code on a biweekly basis  **Overall Sprint Aim:**   * This is a 14-day Sprint involving the coding implementation of the Albatel HR Questionnaire which was given to the group. * Work on a biweekly basis to work on the HTML, CSS, JS, JSPDF, ChartJS and some Ajax is necessary. * The first week which will consist of implementation of the HTML and CSS aspect of the code. * The second week will involve the implementation of the JS and the ChartJS and JSPDF. * Working on a biweekly basis for each section in which we for an hour in which the 15 minutes will involve brainstorming ideas and the 45 minutes will be full implementation of the code via Daily Sprints.   **Sprints Procedures:**  **Week 1 (Session 1):**  For week 1, in our first Sprint session for week one, the first section we brainstormed ideas on the implementation of the HTML aspects via a Scrum session. To ensure that everyone had a job to do, we split the group depending on their capabilities and experience in JS. In the brainstorming idea we agreed that there should be a login form to allow the user with a session ID and in which after completion should be redirected to the questionnaire.  After the brainstorming idea, we used a Scrum method to work on the HTML code together, but we also created a product backlog to see what changes and what kind of components could be modified. Again, we split the sprints into daily sprints sections worth 15 minutes each, because of the daily sprints we managed to complete the login form and a 3 out of the 13 sections of the questionnaire form in the space of 15 minutes daily sprint sessions.  Conclusion of this Sprint session:   * Went well though there needs to be improvements in the login page such as the input which we put in the product backlog. * The brainstorming idea took a bit too long which was an issue. * A thing that needs to implement before the next Sprint session on Friday will be the Login page is fully inputted and complete the rest of the questions for the questionnaire.   **Week 1 (Session 2):**  For week 1, in our second Sprint session for week one, again we worked on the some of the HTML and parts of the CSS aspect of the code. In our first part of this sprint session, we brainstormed ideas on the color theory aspect of the code and what kind of cool features we can add to the code. We agreed unanimously that for the color theory aspect of the HTML should be a green background and that to avoid having too many things in the questionnaire we created a hover to understand what the options mean.  After the brainstorming idea, we used a Scrum method to work on the HTML and the CSS code together, but we also created a product backlog to see what changes and what kind of components could be modified. Again, we split the sprints into daily sprints sections worth 15 minutes each, and in that process, we managed to complete the full CSS implementation and the rest of the HTML code completed though we had an agreement to modify the HTML code as originally it didn’t look too good. So we put that in the product backlog and ensured that it will in the Sprint Backlog and we did the improvements in the code individually in our spare time and as a challenge we work on it individually in a Daily Sprint way.  Conclusion of this Sprint session:   * The CSS and HTML coding implementation went extremely well, though there maybe some more improvements needed. * The brainstorming idea this time was perfect and didn’t take too long. * Gave each other a challenge to work on the modifications of the HTML individually in our spare time but must do it in a Daily Sprint style   **Week 2 (Session 1):**  For week 2, in our first Sprint session for week two lasted for about 2 hours, this one was challenging to do as there was so many ideas all at once in terms of the JS aspect of the code but to allow everyone to have the chance to try out their code, we all agreed to try out all the ideas in the coding implementation which I will mention later. But we ultimately agreed was the use of ChartJS to create the chart for the PDF and the use of JSPDF would ultimately be the conclusion. From the brainstorming we also agreed that each member must do a certain section of the code (i.e., my job was to work on the ChartJS aspect of the JS code). The brainstorming lasted for about 30 minutes.  After the brainstorming idea, we did a partial implementation of the JS code, ChartJS and JSPDF in a style of Daily Sprints but instead of 15 minutes we agreed that the Daily Sprints would be worked in 30 minutes. My role was to work on the charts in the HTML and JS aspect of the questionnaire with feedback by the peers at the end of the session. Using the brainstormed ideas, we created I found it easier to try out each idea brainstormed by peers and ultimately agreed to use one of my members idea of counting scores in the chart which was ultimately easier to use. After the coding implementation of the charts we reviewed our ideas and the codes we implemented and agreed to work on the some modifications individually in our spare time.  Conclusion of this Sprint session:   * Overall, the session was a success and had loads of work done. * We agreed the most valuable thing we got was that my members understood how to work the JS implementation of the code and agreed to help each other when there is a problem.   **Week 2 (Session 2):**  For week 2, in our second Sprint session for week two, was pretty easy and very laidback where we didn’t need to do any brainstorming and went straight into Integration and System Testing and Operation and Maintenance of the Waterfall Model. This sprint session lasted for about 2 hours in which we worked in the first hour in the Integration and System Testing and 30 minutes in Software Validation and Operation and Maintenance  In the first hour we worked on the Integration and System Testing of the Questionnaire, we got our code implementation which we worked as a group and did some more modifications on it, and as well as that we worked on the code which our peers done and implemented it into the System code itself. After that we validated the code and worked on validation of each induvial section of the code from the HTML to the JSPDF section.  For 30 minutes we worked on the full validation of the whole Questionnaire itself which was a success we managed to complete the validation in a quick and reliable manner.  The last 30 minutes we worked on the Operation and Maintenance of the code. We deployed the system into use through getting some external testers to try it and in which they gave us feedback in the following days. We agreed that if there is any changed, updates or modifications that the external testers would like we would implement it individually.  Conclusion of this Sprint session:   * This sprint session was laidback but very insightful. * The validation didn’t take too long but put us under pressure but we had to be brave and that’s what we did. * Overall the main goal we worked on was validating the full coding procedure and allowing external people to test the code itself.   **Sprints Conclusion:**   * Overall, this Sprint Session (Session Week 6) was a success but with a few bumps. * The most important bits we completed first such as the HTML and CSS aspect of the code. * In the first week, we completed the login form and the questionnaire which was the most important things in the Sprint Backlog for week 1. * In the second week, we completed the chart and the PDF aspect of the code which was the most important things in the product and sprint backlogs for week 2. |