## **Criterion B: Record of tasks**

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| Task number | Planned action | | Planned outcome | | | | Time estimated | | Target completion date | | | Criterion |
| 1 | Interview with Client & write down the identified problem | | Identify and understand the problem and its needs and write those problems down. | | | | 1 hour | | 06/05/2022 | | | A |
| 2 | Write about the problem and the proposed solution | | A clear idea that is written down of the problem and the direction with which that problem will be achieved. | | | | 2 hours | | 08/05/2022 | | | A |
| 3 | Write the rationale for the solution | | A clear and justified understanding of which softwares will be used to produce the product. | | | | 4 hours | | 10/05/2022 | | | A |
| 4 | Write the success criteria for the solution | | Knowing and writing the minimum requirements needed for the solution. | | | | 30 minutes | | 10/05/2022 | | | A |
| 5 | Make a test plan | | Create a plan of how to determine whether each success criteria has been met | | | | 2 hours | | 12/05/2022 | | | B |
| 6 | Complete the graphical visualizations section | | Design a rough visualization of each screen with text explaining the purpose of each element in the design. | | | | 8 hours | | 25/05/2022 | | | B |
| 7 | Create all necessary Flowcharts | | Have a flowchart for each key algorithm in the application, such as the recommendation algorithm, emailing about a product’s purchase, searching for a product, et cetera, which clearly explains step-by-step how it will function. | | | | 10 hours | | 20/06/2022 | | | B |
| 8 | Create a UML class diagram and use case diagram | | Create a UML diagram of each class, and decide which classes associate, aggregate, or compose. For the use case diagram, decide each possible input by the user and visually describe what happens. | | | | 3 hours | | 01/07/2022 | | | B |
| 9 | Complete the Data Structures section | | For each data structure that will be used in the product, such as an ArrayList or 2D array, visually describe how the different types of data will be ordered and structured inside the data structure. | | | | 4 hours | | 03/07/2022 | | | B |
| 10 | Complete Record of Tasks | | Fill the table for the record of tasks, including the planned actions and outcomes and for how long, when, and for what criteria. | | | | 2 hours | | 04/07/2022 | | | B |
| 11 | Learn the basics of android studio and set it up | | Watch through a whole course on the basics of android studio and participate interactively to ensure learning. | | | | 10 hours | | 07/07/2022 | | | C |
| 12 | Create the registration & login system | | Make the user capable of creating an account by inputting a username, password, and PIN. The account can only be created if the appropriate PIN is inputted. Users can login with their username & password. A special account is also made for U, allowing him to create products. When users open the app, it should log them into their previously logged into account. | | | | 4 hours | | 10/07/2022 | | | C |
| 13 | Create stored products that can be scrolled through in the application | | For each product that U submits, it is stored in Firebase Realtime Database with the title, price, and description. When a user opens the application, the products are listed and can be scrolled through providing the details of the title, description, and price. | | | | 4 hours | | 15/07/2022 | | | C |
| 14 | Create the emailing system | | A buy button will be provided to each product, which, when clicked will send an email to U with the user's name, time of purchase, product, and price of product. | | | | 2 hours | | 17/07/2022 | | | C |
| 15 | Create a search bar | | Have a search bar icon on the top right of the “Shop” screen, which, when clicked will eliminate all products that do not exactly match the searched text in either the title, description, or price. | | | | 1 hour | | 18/07/2022 | | | C |
| 16 | Create a recommendation algorithm | | Have a collaborative filtering algorithm which finds the similarity of other users’ ratings of products to the user of interest to predict the rating of unrated products, and arrange the products from descending rating order. | | | | 5 hours | | 25/07/2022 | | | C |
| 17 | Beta test Product & implement feedback | | Ask people I know such as family members and friends to use the product and collect their feedback. Evaluate which changes from the feedback should occur, such as finding major bugs or security leaks, and which changes are not necessary, such as the appearance of the product. | | | | 10 hours | | 13/08/2022 | | | C |
| 18 | Finish criteria C | | Write down all major code, techniques, and tools used that exemplify ingenuity & complexity. | | | | 20 hours | | 28/08/2022 | | | C |
| 19 | Create the video | | Create a video in which I follow the test method of the test plan to make it clear the extent to which each success criteria has been met. | | | | 4 hours | | 1/09/2022 | | | D |
| 20 | Implement product & interview client for the second time | | Publish the product on the Google Play Store. Let the client implement the product for his business by promoting it and letting his customers download it for a week. Then get all of U’s feedback by interviewing him for a second time and discussing how well the product met each criteria and which improvements U recommends. | | | | 1 week | | 08/09/2022 | | | E |
| 21 | Evaluate the product | | Conclude whether the product achieves the success criteria, including U’s comments related to those success criteria | | | | 2 hours | | 09/09/2022 | | | E |
| 22 | Provide recommendations for further improvements to the product | | Suggest 2 or 3 feasible and sensible improvements to the product. Provide a brief method for achieving those suggested improvements. | | | | 2 hours | | 10/09/2022 | | | E |
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