BSc in Computing Dissertation by Practice

**Agreed Project Specification Document (Project Term)**

**Section 1:**

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**Section 2:** **(expected word counts 700 – 1000 words)**

Expand upon your original project description to reflect insights gained from discussions with your assigned supervisor. In your description please under the following headings:

* Problem description.
* Similar systems.
* Technologies being used.
* Other technologies considered.
* Key features.

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| **Problem Description**  The system is called “**Air Ticket Reservation System**”. It is a web-based air ticket reservation system. The system includes two types of user interface, for users and for administrator. The interface for users is where users can register their details information through web-based application forms user interface. Then, the users can look at their destinations and check their desired time and flight. After the booking is confirmed, user can be able to view the itinerary as a printable report format or in a tabular format.  The administrator can register the flight details and destinations. The admin can add, delete or update flights details and transactions details. The admin also can view the total number of bookings, total bookings cancelled, and available seats for the specified flight, etc.  **Similar Systems**  I have checked some of the similar systems available on the internet. The followings are some of the examples I found.  **Airline Management System**  <https://www.youtube.com/watch?v=UbIIFLsEeiM>  This system is based on the Indian Airlines, created with Java and it has many useful features. Main features include flight’s details, passenger’s detail and then choose the destinations and book the flight. The good thing is whenever users have chosen an option or have submitted the form, the information will be shown on the system in a table format. It also includes a dummy payment form and flight cancellation form.  **Air Ticket Reservation System**  <https://www.academia.edu/33078817/Air_Ticket_Reservation_System.docx>  In this system, you can create flight details, creating routes and airport information, exclusively, for admin users. Admin users can view and print out the report for airport status, total bookings, total bookings cancelled, and so on.  Users can fill in their particulars, check the flight details depending on the destination, and confirm the booking. After the booking, they can easily view or cancel the booking.  **Technologies to be used**  Since it is a web-based project, HTML and CSS for designing purpose, JavaScript and Java will be used for functionalities. And MySQL for storing data. The software’s main purpose is to create a CRUD functionality for a web-based reservation system.  **Alternative technologies**  As an alternative, PHP for server-side programming and frameworks such as NodeJS and Bootstrap will probably be included in the system. The organisation will be informed earlier if any additional technologies other than specified here are used.  **Key features**  Login page for ordinary users and administrator.  Administrator can manage the flight details (add new, update or cancel the flights, etc.). He can check the passenger’s details if needed.  User can view the available flight options to his desired destination. He can choose the flight and then fill in the details of the passenger(s). If the seat is available, then he can book this flight and the time.  Users can view the flight booking review or flight itinerary after confirming the booking. It should be in a text file or a printable version and it will be sent to user’s email specified in the application form.  **Additional and Future Enhancements**  Payment option will be taken care of by third-party application. But when the system will be upgraded to a fully functional air ticket reservation system, payment functionality will be included, and all the dummy flight information will be changed to a real-life flight routes and time in the future. |

**Section 3:**

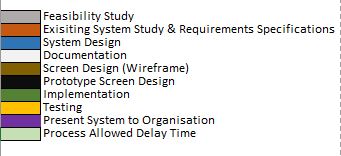
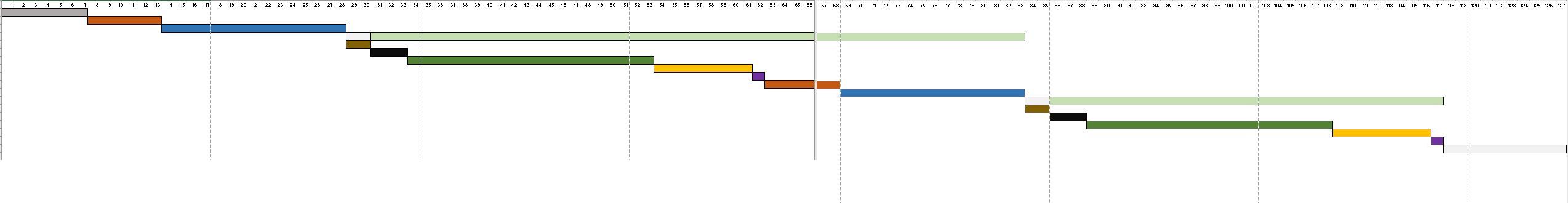
Based on the content written in Section 2 please provide an estimated timeline for your project. Include reference to:

* Implementation time for each feature.
* Further research to be completed.
* Preparation time for interim presentation and final demonstration
* Preparation time for May exams
* Consideration for in term assessment from taught modules.

The aim here is to assess everything that is occurs between now and June and to plan accordingly. Timelines should be in the format of a Gantt chart.

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| I would like to present an activity table and Gantt chart for my project schedule. The system will be developed using **RAD (Rapid Application Development)**. The early prototype will be presented to the organisation in each iteration of the process and user’s requirements and amendments on the system will be gathered after every prototype model has been presented.  **Activity Table**   |  |  |  |  | | --- | --- | --- | --- | | **Activity ID** | **Activity Name** | **Dependencies** | **Days** | | A | Feasibility Study | - | 7 | | B | Existing system study & Requirements Specification (Phase 1) | A | 6 | | C | ERD, DFD, Use Case, Class Diagrams (Phase 1) | B | 15 | | D | Documentation (Phase 1) | C | 2 | | E | Screen Design (Wireframe) (Phase 1) | B | 2 | | F | Build Prototype Screen Design for presentation  (Phase 1) | E | 3 | | G | Implement Initial System (Version 1.0) | F | 20 | | H | Testing | G | 8 | | I | Present Initial System to Organisation for Approval | H | 1 | | J | Requirements specifications (Phase 2) | I | 6 | | K | ERD, DFD, Use Case, Class Diagrams (Phase 2) | J | 15 | | L | Documentation (Phase 2) | K | 2 | | M | Screen Design (Wireframe) (Phase 2) | J | 2 | | N | Build Prototype Screen Design for presentation  (Phase 2) | M | 3 | | O | Implement System (Version 1.?) | N | 20 | | P | Testing | O | 8 | | Q | Present Initial System to Organisation for Approval | P | 1 | | R | Final Documentation | Q | 10 | | **Remark** | **Will go through the third iteration if it is needed.** |  |  |   It is expected to meet the requirements of the organisation **at most three iterations of the process**. The project will be finished in **127 days (18/02/2020), 4 months and 4 days** with **two iterations of the process**. This should be the earliest date the project will be done, if everything works fine. If **the third iteration** must be done, in any case, it will take up to **184 days**. This will make the submission date to be on **16/04/2020**. |

**Gantt Chart**



For official use only:

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| --- | --- | --- | --- |
| Supervisor |  | Demo Date |  |
| Accounts |  | Attempt |  |

Comments: