**Project Plan for P5 & P6**

**Project Goal - To allow users to view their accounts and outstanding invoices / payments.**

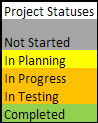
**Functional Requirements**

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| --- | --- |
| ID | Requirement |
| F1 | Users who are registered to the system will be able to log in using their username and password. |
| F2 | People who are not users will be able to register for an account by providing the following information:   * Username * Password * Phone Number * Address * Bank Details * Add 0 or More car(s) * A car has the following attributes: id, number plate and model. |
| F3 | **View Account Details:**   * User selects view account details tab * System gets details for logged in account from database * System displays details to user |
| F4 | **Edit Account Details:**   * User selects edit account tab * System gets details for logged in account from database * System displays details to user * User edits details |
| F5 | **Delete account data:**   * Users will be able to delete all their data from the website. |
| F6 | **Save Motorway Use:**   * Save cars entries and exits from the highway to the database. * Registered users will have the records assigned to them. * Unregistered users will have the records saved in the database until an account with a corresponding number plate is found. |
| F7 | **View Invoices:**   * User selects Invoice tab * System searches chargingRecords respective to the plate from the logged in account * System displays Invoices to User. |
| F8 | **View Outstanding Payment:**   * User selects Invoice tab * System searches chargingRecords for paid bills respective to the plate of logged account and returns them to the user * System displays Outstanding Payments. |
| F9 | **Sorting System for Bills:**   * User picks sorting option * System sorts bills by chosen category. * System returns sorted results to user. |
| F10 | **Export Invoice to PDF/XML file:**   * User clicks export button next to Invoice * System gets all relevant data and generates PDF/XML file which is then made available for the user to download. |

**Non-Functional Requirements**

|  |  |
| --- | --- |
| ID | Requirement |
| NF1 | Users who are logged into the website should not be able to access the ‘sign up’ page |
| NF2 | Users who sign up for the system should be assigned to the following role:  Global Admin: This will enable the modification of the entire site.  Normal Admin: Enable access to view generated bills and journeys in the system.  User: Can manage personal records with additions to edits and an exception of deleting their records. |
| NF3 | When signing up, the following validation rules must be met:   * Passwords will be at least 8 characters long * Passwords will contain at least one number * Passwords will contain a special character * Email addresses will contain an ‘@’ symbol * Phone numbers will be exactly 11 digits in length |
| NF4 | The web pages will be able to handle exceptions by displaying an error message. This will not be a full stack trace. |

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| **Sprint** | **Presentation** | **Project Statuses** | **Date Complete** |
| **Sprint 1:**  **Project Initiation and Definition** | Defining how our component fits into the overall system | **Completed** |  |
| **Sprint 1** | Initial System Model - Information model, messaging, and components | **In Progress** |  |
| **Sprint 1** | Functional and non-functional feature requirements | **In Progress** |  |
| **Sprint 1** | Test requirements | **In Progress** |  |
| **Sprint 1** | Deployment requirements | **In Progress** |  |
| **Sprint 1** | Outline Project Plan | **Completed** | **27/10/2020** |
| **Sprint 2:**  **Skeleton Mock Implementation** | Defining and selecting technologies we will be using | **Not Started** |  |
| **Sprint 2** | Determine how our feature is being implemented, tested, packaged and deployed to the cloud | **Not Started** |  |
| **Sprint 2** | Test plan | **Not Started** |  |
| **Sprint 2** | Project plan | **Not Started** |  |
| **Sprint 3:**  **Minimal Viable Product** | (no presentation)  coding | **Not Started** |  |
| **Sprint 4:**  **Feature Complete** | Overall Description of the system | **Not Started** |  |
| **Sprint 4** | Demo of testing our components | **Not Started** |  |
| **Sprint 4** | Demo of overall system | **Not Started** |  |
| **Sprint 4** | Features completed and features not completed | **Not Started** |  |
| **Sprint 4** | Articulating our learnings | **Not Started** |  |

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