**Project Design Phase-II**

**Solution Requirements (Functional & Non-functional)**

|  |  |
| --- | --- |
| Date | 03 October 2022 |
| Team ID | PNT2022TMID34993 |
| Project Name | Project - Trip Based Modelling of Fuel Consumption in Modern Fleet Vehicles Using Machine Learning |
| Maximum Marks | 4 Marks |

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

|  |  |  |
| --- | --- | --- |
| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| FR-1 | User Registration | Registration through Form  Registration through Gmail  Registration through LinkedIN |
| FR-2 | User Confirmation | Confirmation via Email  Confirmation via OTP |
| FR-3 | Transaction Processing | Payment through online  Payment through offline |
| FR-4 | Authentication | Through Email  Physical Verification |
| FR-5 | Reporting | Through App  Through Email  Through SMS |

**Non-functional Requirements:**

Following are the non-functional requirements of the proposed solution.

|  |  |  |
| --- | --- | --- |
| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | 24/7 |
| NFR-2 | **Security** | Access permission for the particular system  Information may only be changed by the system’s data administrator |
| NFR-3 | **Reliability** | Automatic restart and operation recovery |
| NFR-4 | **Performance** | The front-page load time must be no more than 2 seconds for users that access the website using an  LTE mobile connection. |
| NFR-5 | **Availability** | New module deployment mustn't impact front page, product pages, and check out pages availability and mustn't take longer than one hour.  The rest of the pages that may experience problems must display a notification with a timer showing when the system is going to be up again. |
| NFR-6 | **Scalability** | The website/app attendance limit must be scalable enough to support 200,000 users at a time. |