**Project Design Phase-II**

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

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| --- | --- |
| Date | 03October 2022 |
| Team ID | PNT2022TMID10940 |
| Project Name | Machine Learning based Vehicle Performance Analyzer |
| Maximum Marks | 4 Marks |

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

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| --- | --- | --- |
| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| FR-1 | User Registration | Registration through Form  Registration through Gmail |
| FR-2 | User Confirmation | Confirmation via Email  Confirmation via OTP |
| FR-3 | Reset Password | Password reset by Gmail  Password Reset through Mobile Number |
| FR-4 | Feedback | The user can provide comments using a contact form on the website or via Gmail. |

**Non-functional Requirements:**

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

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| --- | --- | --- |
| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | Based on the results, the analyzer enables the user to optimize performance. It is simple to use and only requires the necessary info. |
| NFR-2 | **Security** | The use of a car alarm, wheel lock, vehicle lock, and GPS tracker increases security. |
| NFR-3 | **Reliability** | The dependability rating is high owing to the best performance, low frequency of issue recurrence, and cheap repair cost. |
| NFR-4 | **Performance** | The vehicle's quality and infrastructure have been improved to deliver greater performance such as good mileage, easy travel thanks to good suspension, and improved engine performance. |
| NFR-5 | **Availability** | Researchers acquire the necessary data, which may then be utilized to deliver improved outcomes. |
| NFR-6 | **Scalability** | Our project is more scalable since our model analyses all information and gives a more precise answer. We could attain optimum performance with little changes to the car. |