**Project Design Phase-II**

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

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| Date | 18 October 2022 |
| Team ID | PNT2022TMID04456 |
| Project Name | Project - Detecting Parkinsons Disease using Machine Learning |
| 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  Registration through Phone Number |
| FR-2 | User Confirmation | Confirmation via Email  Confirmation via OTP |
| FR-3 | User details collection | Collection through forms  Collections through google  Upload to database |
| FR-4 | Test application Form | Collect details  Collect Payment fee if applicable  Proceed to test window if payment done |
| FR-5 | User known value | Get user level  Get user sugar level  Get user physical condition  Get user disabilities |
| FR-6 | Test report generation | Classify the given image  Associate with database  Generate report |
| FR-7 | User Demand | After getting result ,the affected person need to consult a doctor.  The non affected person neeed some medication which will show in web application. |

**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** | Good network access |
| NFR-2 | **Security** | Cloud based communication hence secure as it is already provided by cloud vendor.The analysed data is accesed only athenicated |
| NFR-3 | **Reliability** | The Machine Learning model is accurate |
| NFR-4 | **Performance** | Fast as classification is efficient |
| NFR-5 | **Availability** | Supports remote locations as it is web based |
| NFR-6 | **Scalability** | Highly scalable and with more images, the model’s accuracy can be improved |