Project Design Phase-II

Solution Requirements (Functional & Non-functional)

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| Date | 17 October 2022 |
| Team ID | PNT2022TMID33248 |
| Project Name | EARLY DETECTION OF CHRONIC KIDNEY DISEASE USING MACHINE LEARNING |

# 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 website or application Registration through Social medias (like Instagram, Facebook) |
| FR-2 | User Confirmation | Verification via Email Verification via OTP |
| FR-3 | User Login | Login through website or App using the respective username and password |
| FR-4 | User Access | Allows the website requirement |
| FR-5 | User Guide | Guides the basic steps of using the application |
| FR-6 | User Upload | User should be able to upload the data |
| FR-7 | User Solution | Data report should be generated and delivered to user |

# 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** | Ease of use prerequisites can consider dialect boundaries and localization assignments. Ease of use can be surveyed from the underneath capacities. Effectiveness of use. Low seen workload. Simple and basic UI. |
| NFR-2 | **Security** | Get to consents for the specific framework data may as it were be changed by the system’s information director. |
| NFR-3 | **Reliability** | The database overhaul prepare must roll back all related upgrades when any overhaul comes up short. |
| NFR-4 | **Performance** | The front-page stack time must be no more than 2 seconds for clients that get to the site utilizing an VoLTE versatile association. |
| 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** | Ready to increment versatility by including memory, servers, or disk space. On the other hand, ready to compress information, utilize optimizing calculations. The site participation constrain must be versatile enough to back 500,000 clients at a time. |