Project Design Phase-II

Requirement Analysis (Functional & Non-functional)

|  |  |
| --- | --- |
| Date | 12 October 2022 |
| Team ID | PNT2022TMID45654 |
| Project Name | Early Detection of Chronic kidney Disease 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 | Home Page | * Chronic Kidney disease description * Information about Test Vitals required for prediction * If new User , **REGISTER** * If Already exist, **SIGN IN** |
| FR-2 | User Registration | * Enters Mail ID and other personal details required for Registering. |
| FR-3 | User Login | * Uses Mail ID and Password for login |
| FR-4 | Test Vitals Form | * Test Vitals should be entered for prediction |
| FR-5 | Result | * If Positive – Test Result along with the Information about what is to be done next will be displayed. * If Negative – Test result along with preventive measures to prevent themselves from getting Chronic Kidney disease will be displayed. |

# Non-functional Requirements:

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

|  |  |  |
| --- | --- | --- |
| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | Even Illiterates and people with no understanding of computer/mobile should be able to use the product. |
| NFR-2 | **Security** | Access permission for particular system information may be changed by systems data administration. |
| NFR-3 | **Reliability** | The database update process must roll back all related updates when any updates fails. |
| NFR-4 | **Performance** | The Home-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 Model Deployment must not impact Home page ,test page and result page availability and must not take longer than 1 hour. |
| NFR-6 | **Scalability** | The website Traffic limit must be scalable enough to support 2000,000 users at a time. |