**Project Design Phase-II**

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

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| Date | 01 November 2022 |
| Team ID | PNT2022TMID43019 |
| Project Name | Project – Nutrition Assistant Application |
| 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 | User home page | Stores the user uploaded image  API will compute the nutritional content and send it to the application. |
| FR-4 | User progress | Taking picture of the food  Uploading image from gallery |
| FR-5 | User output | Rich and less nutritional content  Suggest to eat  Suggest an alternative to the particular ingredient |
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**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** | How effectively and easy users can learn and use a system.(To guide a new user easily understands a home page.) |
| NFR-2 | **Security** | System and its data were protected against malware attacks or unauthorized access (using two factor authentication during registration its leads to confirmation from user to get a next page.) |
| NFR-3 | **Reliability** | The system would run without failures for a given period of time under predefined conditions.(There is a less chance to occur any failure, then it has 80% of restoring capability even if the system fails.) |
| NFR-4 | **Performance** | Deals with measure of the system response time under different load conditions (The application takes minimum 2 tom 3 seconds to load a page and predicted result will be displayed within 5 seconds with WIFI OR LTE connection.) |
| NFR-5 | **Availability** | If any of issues occurred in a model the user will receive an alert there is a problem in prediction and the system would get back 5 to 10 minutes.  The system will be available during other times. |
| NFR-6 | **Scalability** | The system is scalable, more than 10,00,000 of customer can use the application at same time. |