**Project Design Phase-II**

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

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| Date | 31 January 2025 |
| Team ID | LTVIP2025TMID34308 |
| Project Name | *GrainPalette –A Deep Learning Odyssey In Rice Type Classification Through Transfer 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 LinkedIN |
| FR-2 | User Confirmation | Confirmation via Email Confirmation via OTP |
| FR-3 | Image uploading | Done through flask application using mobile V4 net |
| FR-4 | Image processing | Done with processing image and classifying based on trained model from tf file |
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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** | It is used mostly by market persons and farmers |
| NFR-2 | **Security** | It is secured with credential logins |
| NFR-3 | **Reliability** | It is highly reliable as it has good accuracy |
| NFR-4 | **Performance** | It performs well because it is trained with hudge data set of images |
| NFR-5 | **Availability** | It is deployed , so can be globally accessible |
| NFR-6 | **Scalability** | It is a good scalable app, as it is easy to make and less requirements needed to run the app |