**Project Design Phase-II**

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

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| **Date** | **24 June 2025** |
| **Team ID** | **LTVIP2025TMID24654** |
| **Project Name** | **Shopez : one-stop shop for online purchases** |
| **Mentor Name** | **Dr Shaik Salma Begam** |
| **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 using Gmail  Registration using LinkedIn |
| FR-2 | User Confirmation | Confirmation via Email  Confirmation via OTP |
| FR-3 | Fabric Image Upload & Management | Upload Fabric Images  Manage Uploaded Images  View Classification History |
| FR-4 | Pattern Classification | Automatic Pattern Detection and Classification  View Classification Results  Download Report |
| FR-5 | Admin Management | Manage User Accounts  Manage Pattern Categories  Review and Approve Uploaded Data  View System Analytics |

**Non-functional Requirements**

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| **NFR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | Usability | The platform should be user-friendly for designers, manufacturers, and admins, with a clear, responsive UI. |
| NFR-2 | Security | Protect user-uploaded images and data through encryption, secure authentication, and role-based authorization. |
| NFR-3 | Reliability | The system should consistently process and classify fabric images accurately with minimal errors. |
| NFR-4 | Performance | The classification process and results display should be fast even with high-resolution images and many users. |
| NFR-5 | Availability | The service should be available 24/7 with minimal downtime to support global users. |
| NFR-6 | Scalability | The system should support increasing numbers of users and images without compromising performance. |

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