**Project Design Phase-II**

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

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| Date | 15 April 2025 |
| Team ID | SWTID1743695015 |
| Project Name | Shopez: E-Commerce 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  Registration through LinkedIN |
| FR-2 | User Confirmation | Confirmation via Email  Confirmation via OTP |
| FR-3 | User Login | Forgot Password (Reset link via Email)  Change Password from Profile |
| FR-4 | |  | | --- | |  |  |  | | --- | | Password Management | | Forgot Password (Reset link via Email)  Change Password from Profile |
| FR-5 | |  | | --- | |  |  |  | | --- | | User Profile Management | | |  | | --- | |  |  |  | | --- | | View and Edit Profile Info  Upload Profile Picture  Manage Preferences | |
| FR-6 | |  | | --- | |  |  |  | | --- | | Dashboard | | |  | | --- | |  |  |  | | --- | | Show Personalized Dashboard  Show Recent Activities or Transactions | |

**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** | Ensure UI/UX design is intuitive, especially on mobile and tablets. |
| NFR-2 | **Security** | Encrypt sensitive data and apply role-based access control. |
| NFR-3 | **Reliability** | Should have mechanisms like retries, logging, and monitoring for robustness. |
| NFR-4 | **Performance** | Should support 500 concurrent users with under 3-second response time. |
| NFR-5 | **Availability** | Application should ensure 24/7 uptime with scheduled maintenance alerts. |
| NFR-6 | **Scalability** | Should handle 10x increase in user base without degradation. |
| NFR-7 | **Maintainability** | The system should allow easy debugging and modular updates. |
| NFR-8 | |  | | --- | |  |  |  | | --- | | **Portability** | | |  | | --- | |  |  |  | | --- | | The application should run on all major browsers  and devices. | |
| NFR-9 | |  | | --- | |  |  |  | | --- | | **Localization** | | Support multiple languages based on user region. |
| NFR-10 | **Auditability** | |  | | --- | |  |  |  | | --- | | Maintain logs for all user and admin actions for auditing purposes. | |