

**Project Design Phase-II**  
**Solution Requirements (Functional & Non-functional)**

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|---------------|--|
| Date          | 20 Feb 2026                                      |
| Team ID       | LTVIP2026TMIDS91056                              |
| Project Name  | ShopSmart: Your Digital Grocery Store Experience |
| Maximum Marks | 4 Marks  |

**Functional Requirements**

**User Management**

- The system shall allow users to register and log in securely.
- The system shall allow users to update profile information.

**Product Management**

- The system shall display products by category.
- The system shall allow sellers to add, edit, and delete products.

**Cart and Order Management**

- The system shall allow users to add and remove items from the cart.
- The system shall allow users to place orders.
- The system shall allow users to track orders.

**Payment Processing**

- The system shall support secure payment processing.
- The system shall generate payment confirmations.

**Admin Management**

- The system shall allow admins to manage users and sellers.
- The system shall provide system monitoring features.

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**Non-Functional Requirements**

**Performance**

- The system should load pages quickly.
- The system should handle multiple users simultaneously.

**Security**

- The system should use authentication and authorization mechanisms.
- The system should ensure secure transactions and data encryption.

**Usability**

- The interface should be user-friendly and intuitive.
- The system should provide clear navigation and instructions.

**Reliability**

- The system should be available with minimal downtime.
- The system should maintain data consistency and integrity.

**Scalability**

- The system should support future expansion with more users and products.