Subject: Automatic/ Smart Shopping

Software:

The aim of the software is to deliver the smooth grocery shopping experience by automating various processes, enhancing inventory management, and improving customer satisfaction through the software

Components:

The main components needed while developing software's are:

1. User Interface (UI):

2. Inventory Stock Management:

3. Order/ Bill/ Invoice management:

4. Payment Gateway Integrate:

5. Overall Sells and purchase analysis:

6. Database Management:

Aspects:

1. Performance of the software:

2. Security/ Defence system for the software:

3. UI Friendly Design:

4. Scalability:

5. Quick recovery in case of failure:

6. Compatibility OS wise:

Planning:

Planning has 3 phases as follows:

1. Financial Planning:

    a. Scanner Machine
    b. Barcode Generator
    c. Bill Printer Machine

d. Billing Software

e. Payment Method

2. Project Planning:

a. Scope: Development of a smart inventory billing system for a small grocery shop

b. Aim: The aim is to create a user-friendly, smart, secured and efficient software which manages various operations and billings for the grocery shops

c. Objective: Develop an smart user interface that simplifies the grocery shopping process

d. Schedule:

   i. Requirement Collection (2 weeks)

   ii. Software pre Design and planning (1 week)

   iii. Front-end and UIUX Design and Database (2 weeks)

   iv. Middleware and Backend Development (3 weeks)

   v. Testing Software (2 weeks)

   vi. Bug/ Error Fixing (1 weeks)

   vii. Final Testing of software (1 weeks)

   viii. Software Deployment (1 weeks)

   ix. After Deployment, Software Support (1 weeks)

3. Resource Allocation:

a. Human Resources

   i. Project Manager (1)

   ii. UIUX Designer (1)

   iii. Frontend Developer (2)

   iv. Database engineer (2)

   v. Backend Developer (3)

   vi. Quality Assurance engineer (1)

   vii. Technical Support (1)

b. Software and Hardware Resource

   i. Hardware Components

   - Barcode Scanner

   - Bill Printer

   - Payment/ Card Machine

   - Anti-thief gates

   ii. Software Req.

   - IDE Tools

   - Testing tools

- Database tools

   iii. Infrastructure:
- Servers
- Cloud Service