**Project Name: Eatify - Online Restaurant Management System**

**Project Description**: Eatify is an online restaurant management system designed to streamline operations, enhance customer experience, and optimize business efficiency for restaurants of all sizes. It includes features such as online ordering, table reservation, menu management, inventory tracking, and customer relationship management.

**Agile Methodology: Scrum**

**1. Backlog Creation:**

• Create a product backlog containing all the features and user stories for Eatify. Continuously refine and prioritize the backlog throughout the project.

**Product Backlog:**

1. Customer can browse restaurant menu

2. Customer can place an order online

3. Customer can make table reservations

4. Restaurant staff can manage menu items

5. Restaurant staff can track inventory

6. Restaurant staff can manage orders

7. Restaurant staff can manage table reservations

8. Restaurant staff can view customer feedback

9. Administrator can manage user accounts

10. Administrator can generate reports

**2. Sprint Planning:**

• Plan development work in two-week sprints, aiming to deliver working software increments at the end of each sprint.

• Select a subset of user stories from the product backlog based on priority and estimated effort for each sprint.

Sprint 1:

• Select backlog items 1, 2, 3

• Sprint Goal: Basic customer functionalities (browsing menu, placing orders, making reservations)

Sprint 2:

• Select backlog items 4, 5, 6

• Sprint Goal: Restaurant staff functionalities (menu management, inventory tracking, order management)

Sprint 3:

• Select backlog items 7, 8

• Sprint Goal: Enhanced staff functionalities (table reservation management, customer feedback)

Sprint 4:

• Select backlog items 9, 10

• Sprint Goal: Administrator functionalities (user account management, reporting)

**3. Estimation:**

• Estimate the effort required to complete each user story using story points, a relative estimation technique.

Story Points Estimation:

• Use a scale of 1, 2, 3, 5, 8, 13, 20 for story points estimation.

**Estimation Results:**

1. Browse restaurant menu - 3 story points

2. Place an order online - 8 story points

3. Make table reservations - 5 story points

4. Manage menu items - 8 story points

5. Track inventory - 5 story points

6. Manage orders - 8 story points

7. Manage table reservations - 5 story points

8. View customer feedback - 3 story points

9. Manage user accounts - 8 story points

10. Generate reports - 5 story points

**4. Execution:**

• Begin development according to the sprint plan, with daily standup meetings to track progress, discuss any impediments, and ensure alignment within the team.

**5. Review and Retrospective:**

• Conduct a sprint review at the end of each sprint to demonstrate completed functionality to stakeholders and gather feedback.

• Hold a sprint retrospective to reflect on the sprint, discuss what went well and what could be improved, and identify actionable improvements for future sprints.