Experiment – 8

Creating a Project in JIRA

Food Management System

Software Engineering

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1. Introduction

The Food Management System (FMS) is designed to streamline food distribution, tracking, and waste management in a structured and efficient manner. This system ensures that food inventory is well-managed, minimizes wastage, and optimizes resource allocation.

2. Objectives

- To develop an efficient food management and tracking system.
- To integrate real-time food inventory monitoring.
- To optimize food distribution and reduce wastage.
- To provide an analytics dashboard for data insights.

3. Features

- User Management: Role-based access control for admin, vendors, and customers.
- Inventory Tracking: Real-time monitoring of food stock and expiration dates.
- Order Management: Streamlined ordering process for vendors and users.
- Waste Management: Data-driven insights to minimize wastage.
- Reports & Analytics: Visualization of trends and statistics.
- Mobile & Web Support: Cross-platform accessibility.

4. Technology Stack

- **Frontend:** HTML, CSS, JavaScript
- **Backend:** PHP
- **Database:** MySQL

- **Project Management:** JIRA, GitHub

5. Project Plan in JIRA - Food Management System

1. Project Configuration
- **Project Name:** Food Management System (FMS)
- **Project Type:** Scrum
- **Sprint Duration:** 2 weeks per sprint
- **Board Type:** Scrum Board

2. Sprint Breakdown

Sprint	Name	Start Date	End Date	Key Features
SCRUM-1	User Management	Feb 1	Feb 14	User registration, authentication, role management
SCRUM-2	Food Donation Management	Feb 1	Feb 14	Donor registration, donation tracking, approval workflow
SCRUM-3	Food Request and Claiming	Feb 10	Feb 24	Request food, claim tracking, notifications
SCRUM-4	Notifications and Alerts	Feb 15	Mar 1	Email/SMS alerts for requests, approvals
SCRUM-6	Admin Dashboard	Feb 15	Mar 1	Analytics, reports, user activity logs
SCRUM-7	Location and Mapping	Mar 1	Mar 14	Map-based donation tracking, location services
SCRUM-8	Testing and Deployment	Mar 10	Mar 24	System testing, bug fixes, deployment setup
SCRUM-9	Maintenance and Support	Mar 20	Apr 10	Ongoing support, improvements, monitoring

3. JIRA Workflow
1. **Backlog:** Collect all tasks and features.
2. **To Do:** Move sprint tasks before starting work.
3. **In Progress:** Active development phase.
4. **Code Review:** Peer review and validation.

5. **Testing:** QA testing for bugs and performance.
6. **Done:** Completed and deployed features.
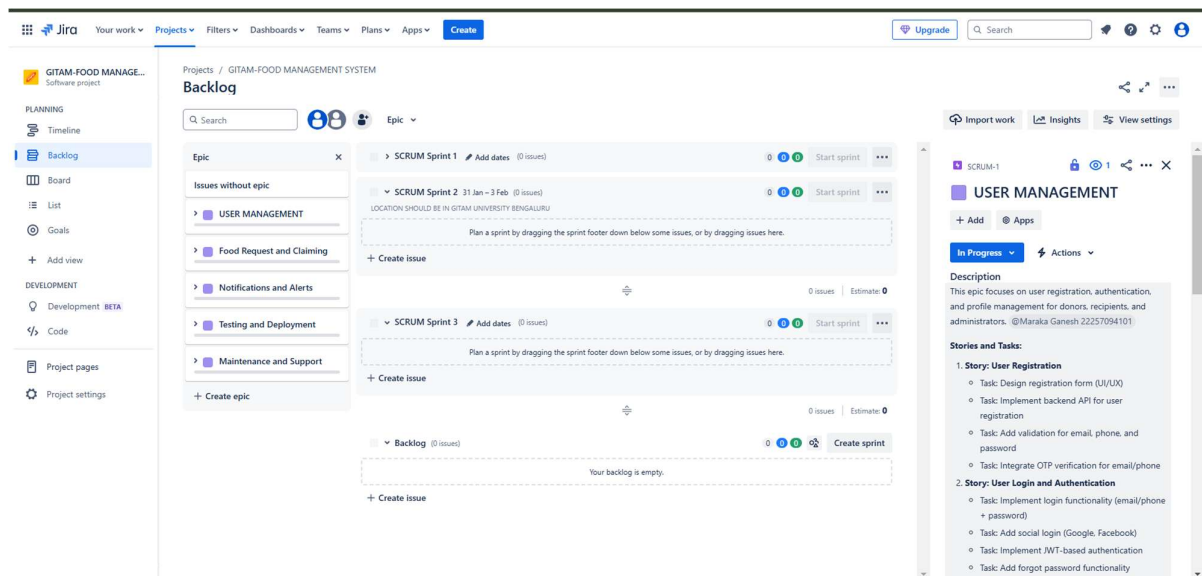
4. JIRA Task Structure for Each Sprint
Each sprint will have epics, user stories, and tasks:
Example: SCRUM-1 (User Management)

- **Epic:** User Authentication System
  - **User Story 1:** As a user, I should be able to register an account.
  - **User Story 2:** As an admin, I should be able to manage user roles.
  - **Task 1:** Develop authentication API.
  - **Task 2:** Implement JWT-based authorization.
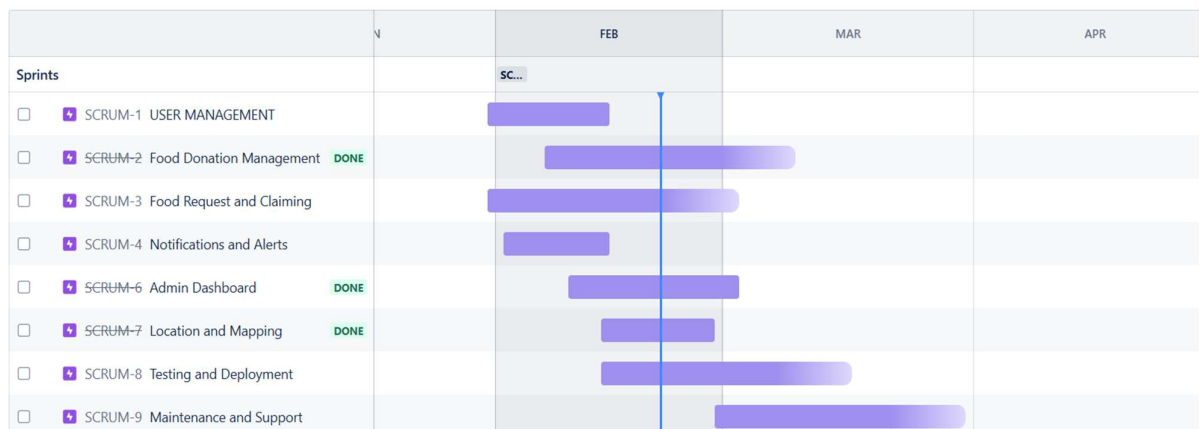
5. Reporting & Monitoring
- **Sprint Burndown Chart:** Track task completion over sprint duration.
- **Velocity Chart:** Monitor team performance.
- **Release Management:** Deploy stable features iteratively.

6. CONCLUSION

The Food Management System is a comprehensive solution that enhances food resource tracking and minimizes waste. Using JIRA for project planning ensures a structured approach, timely deliverables, and efficient collaboration. The proposed sprints and workflows will help in systematic development and deployment of the system.