

# Agile Sprint Plan – Full ERP System

## Project Name

Enterprise Resource Planning (ERP) System – [React.js](#)

## Methodology

Agile – Scrum

Sprint Duration

Each sprint = **4hours**

Total project duration = **3 days**

Scrum Team

- **Product Owner:** Sk.Atik Tajwar
- **Scrum Master:** Md.Tasnim Muttaki
- **Development Team:** React Frontend Developers
- **Stakeholders:** End Users (Admin & Employees)

## SPRINT 1 – Core System Foundation

Sprint Goal

Set up the ERP foundation with authentication, layout, and MVC structure.

User Stories

1. As a user, I want to log in with role-based access.
2. As a user, I want a sidebar and a header for navigation.
3. As a developer, I want MVC separation for maintainability.

## Tasks

- Project setup (Vite + React + TypeScript)
- AuthProvider (dummy login)
- Protected routing
- Sidebar & Header components
- MVC folder structure

## Deliverables

Login system  
Role-based routing  
Base layout  
MVC architecture

## **SPRINT 2 – Inventory & Warehouse Module**

### **Sprint Goal**

Implement inventory-related business modules.

### **User Stories**

1. As an admin, I want to manage warehouses.
2. As an admin, I want to support multiple tenants.

### **Tasks**

- Warehouse model (TypeScript)
- CRUD operations (Add/Edit/Delete)
- FileStorage-based persistence
- Tenant-based data separation
- UI tables & forms

### **Deliverables**

Warehouse Management Module  
Multi-tenant support  
CRUD functionality

## **SPRINT 3 – Finance & Accounting Module**

### **Sprint Goal**

Implement financial record management.

### **User Stories**

1. As an accountant, I want to manage GL accounts.
2. As an accountant, I want to record journal entries.
3. As a manager, I want to set budgets.

### **Tasks**

- GL Account model
- Journal Entry model
- Budget model
- Finance dashboards
- Validation rules

Deliverables

General Ledger (GL)

Journal Entries

Budget Management

## **SPRINT 4 – User Management, Reports & Finalization**

Sprint Goal

Complete ERP with user management, reports, and documentation.

User Stories

1. As an admin, I want to manage users and roles.
2. As a manager, I want summary reports.
3. As a user, I want settings and profile pages.

Tasks

- User CRUD
- Role & permission handling
- Dashboard summary
- Error handling & validation
- Documentation (SRS, MVC, Sprint report)

Deliverables

User Management

Reports Dashboard

Settings & Profile

Final project documentation

## **Overall Sprint Timeline**

<b>Sprint</b>	<b>Module</b>
Sprint 1	Core System
Sprint 2	Inventory / Warehouse
Sprint 3	Finance / GL
Sprint 4	Users / Reports

## **Definition of Done (DoD)**

**A feature is complete when:**

- UI works correctly
- No database dependency
- CRUD operations succeed
- MVC separation maintained
- Code follows best practices
- Ready for demo

## **Final Sprint Review Summary**

The ERP system was developed incrementally using Agile Scrum, delivering core features, inventory, finance, and user management modules across four sprints.