

HRMS (F2 FINTECH)

Week 1: Project Planning and Requirements Gathering

- Tasks:
 - Meet with stakeholders to gather requirements.
 - Define the core features and functionalities (e.g., employee management, attendance tracking, payroll management).
 - Create a project plan with milestones and deadlines.
 - Set up a project management tool (e.g., Jira

, Trello, Asana) to track progress and tasks.

Week 2: Wireframing and Design

- Tasks:
 - Create wireframes for each major section of the HRMS (e.g., Dashboard, Employee Directory, Attendance, Payroll, Leave Management).
 - Use tools like Figma, Sketch, or Adobe XD for wireframing.
 - Review wireframes with stakeholders and gather feedback.
- Wireframes:
 - Dashboard: Overview with key metrics and quick links.
 - Employee Directory: List of employees with search and filter options.
 - Employee Profile: Detailed view of an employee's information.
 - Attendance Management: Calendar view and attendance logs.
 - Payroll Management: Salary details and pay slips.
 - Leave Management: Leave requests and approval workflow.

Week 3: Setting Up the Development Environment

- Tasks:
 - Set up version control (e.g., Git and GitHub).
 - Create the initial structure of the MERN stack project.
 - Set up the MongoDB database and configure the connection.
 - Set up the Express.js server.
 - Initialize the React.js project with create-react-app.

Week 4: Authentication and Authorization

- Tasks:
 - Implement user authentication (sign-up, login, logout).
 - Set up role-based access control (RBAC) (e.g., admin, employee).
 - Use JWT (JSON Web Tokens) for session management.
- Wireframes:
 - Login Page: User login interface.
 - Sign-Up Page: New user registration interface.

Week 5: Employee Management Module

- Tasks:
 - Create API endpoints for CRUD operations on employee data.
 - Develop front-end components for viewing, adding, editing, and deleting employees.
 - Connect the front-end to the back-end using Axios or Fetch API.
- Wireframes:
 - Add/Edit Employee: Form to input or update employee details.

Week 6: Attendance Management Module

- Tasks:
 - Create API endpoints for managing attendance records.
 - Develop front-end components for viewing and logging attendance.
 - Implement attendance reports and export functionality.
- Wireframes:
 - Attendance Logs: Table view of attendance records.
 - Log Attendance: Interface for employees to log their attendance.

Week 7: Payroll Management Module

- Tasks:
 - Create API endpoints for managing payroll data.

- Develop front-end components for viewing and processing payroll.
- Implement salary calculation logic and pay slip generation.
- Wireframes:
 - Payroll Overview: Summary of payroll data.
 - Pay Slip: Detailed view of an individual pay slip.

Week 8: Leave Management Module

- Tasks:
 - Create API endpoints for managing leave requests.
 - Develop front-end components for submitting and approving leave requests.
 - Implement leave balance tracking.
- Wireframes:
 - Leave Requests: Table of pending and approved leave requests.
 - Request Leave: Form to submit a new leave request.

Week 9: Notifications and Messaging

- Tasks:
 - Implement a notification system for important updates (e.g., leave approvals, payroll processed).
 - Develop a messaging feature for internal communication.
- Wireframes:
 - Notifications: List of recent notifications.
 - Messaging: Interface for sending and receiving messages.

Week 10: Testing and QA

- Tasks:
 - Perform unit testing, integration testing, and end-to-end testing.
 - Fix bugs and ensure the application meets the requirements.
 - Conduct user acceptance testing (UAT) with a small group of users.

Week 11: Deployment Preparation

- Tasks:
 - Prepare deployment scripts and configurations.
 - Set up a hosting environment (e.g., AWS, Heroku).
 - Configure CI/CD pipelines for automated deployment.

Week 12: Deployment and Launch

- Tasks:
 - Deploy the application to the production environment.
 - Monitor the application for any issues and resolve them promptly.
 - Provide training and documentation for end-users.

Week 13: Post-Launch Support and Maintenance

- Tasks:
 - Collect feedback from users and make necessary improvements.
 - Set up a maintenance plan for regular updates and security patches.
 - Plan for future enhancements based on user feedback and business needs.

Tools and Technologies

- Wireframing: Figma, Sketch, Adobe XD
- Project Management: Jira, Trello, Asana
- Development: Visual Studio Code, Git, GitHub
- MERN Stack: MongoDB, Express.js, React.js, Node.js
- Authentication: JWT, Passport.js
- Testing: Jest, Mocha, Chai, Cypress
- Deployment: AWS, Heroku, Docker.