

Team Alpha - Initial Meeting Minutes (Phase-1)

Date: 18/03/2025

Time: 10:00 AM

Location: Virtual Meeting (via Zoom)

Meeting Type: Kickoff/Initial Planning

Attendees:

1. JaswanthNalluri
2. Anurag Lakkavathula
3. Abhishek Darsha
4. Lakshmi DeepikaYadagiri
5. Sai Sri Naga SashankPasupuleti
6. JishnaSathvikVucha
7. DhireshtVenkateshwarluKaturi
8. Nikhil ChowdaryKollipati
9. Jaya Sai Reddy Santimalla

Agenda:

1. Introduction of team members
2. Overview of the project and goals
3. Discuss team roles and responsibilities
4. Set up GitHub repository and access

5. Discuss advanced features to implement.
6. Discuss project planning and timeline for implementing advanced features.
7. Q&A and next steps

Meeting Discussion:

1. Introduction of Team Members:

- Each team member introduced themselves and shared their knowledge on their expertise.
- **Skills noted:** JavaScript, React, Node.js, Express, MongoDB, Redux, API development, authentication, and UI/UX design.

2. Overview of the Project and Goals:

- **Project:** Vehicle Parking Management System (VPMS)
- The goal is to build an end-to-end application for streamlined parking management, including:
 - **User Authentication:** Secure sign-up, login, password hashing, JWT-based sessions, and role-based access control, validation for login and signup.
 - **Slot & Parking Lot Management:** Admin capabilities to manage parking lots, levels, and individual slots dynamically.
 - **Booking System:** Users can book, manage, and cancel slots. Real-time overstay tracking and fine calculation.
 - **Statistics & Reporting:** Analyze slot usage, revenue generation, and user activity.
 - **Automated Processes:** Cron jobs for overstay checks and fine automation.
 - **Full Stack Implementation:** Modular backend (Node.js, Express, MongoDB), and a dynamic frontend (React, Zod for form validation, reusable components).

- **Security & Best Practices:** JWT for secure APIs, validation with Zod, and CORS handling.

3. Team Roles and Responsibilities:

Roles and Responsibilities

Jaswanth Nalluri (Backend Developer)

- Set up the entire backend folder structure and integrated MongoDB with Mongoose for schema-based design.
- Configured Express middleware and routing for modular API development.
- Built the statistics controller to analyze slot usage, revenue, and user activity.
- Developed token verification middleware using JWT for securing APIs.
- Created cron jobs to automatically check for overstays and calculate fines in real time.
- Implemented index.js to initialize the server with middleware, routes, and database connection.
- Designed and implemented the Parking Slot model for managing individual slot statuses.
- Assisted on Documentation and Report

Jaya Sai Reddy Santimalla (Frontend Developer)

- Developed authentication modules including Sign In, Sign Up, and Logout APIs with secure password hashing and JWT.
- Added frontend validations using Zod to enhance security and UX for authentication forms.
- Built the Parking Lot model to define metadata like name, location, and total levels.
- Implemented reusable UI components like the Navbar and Sidebar.

- Created utility request handler requestMethod.js to abstract HTTP logic.
- Initialized the React frontend using main.jsx and managed route-level setup.
- Designed and connected Booking and Parking routes to backend services.

Anurag Lakkavathula (Backend Developer)

- Created the User model with role-based schema (admin, moderator, user).
- Developed controller functions for fetching, updating, and deleting user data.
- Configured routes to enable secure access to user-related APIs.
- Collaborated on Parking Controller functions like slot updates, availability, and status changes.
- Built the Booking Controller to manage user bookings, cancellations, and queries.

Abhishek Darsha (Backend Developer)

- Developed the Parking model defining structure for each parking space in the lot.
- Built the Parking Level model to define each level with number of slots and identifiers.
- Implemented backend Parking Controllers to manage CRUD operations across lots, levels, and slots.

Lakshmi Deepika Yadagiri (Backend Developer)

- Designed and implemented the Booking model including details like user, slot, timings, payment, and status.
- Developed Booking Controller to handle bookings, overstay tracking, and updates.

Sai Sri Naga Sashank Pasupuleti (Frontend Developer)

- Set up the entire frontend dashboard layout, user profile page, and routing base.

- Developed interactive dialogs for slot addition, booking confirmation, editing details, and review submission.
- Ensured UI consistency and responsive design across various devices.

Jishna Sathvik Vucha (Frontend Developer)

- Enhanced UI interactivity and responsiveness for booking and slot management components.
- Assisted in integrating API calls for real-time slot updates and user actions.
- Collaborated on testing and debugging frontend modules.

Dhiresk Venkateshwarlu Katuri (Frontend Developer)

- Contributed to designing the admin dashboard and monitoring panels.
- Worked on user role management UI for easy access control by admins.
- Helped in refining frontend component structure for better maintainability.

Nikhil Chowdary Kollipati (Backend Developer)

- Assisted in creating API endpoints for booking history and payment integrations.
- Worked on implementing payment gateway APIs for seamless transaction flows.
- Helped in optimizing database queries for better performance.
- Helped on Documentation and Reports

4. Set up GitHub Repository and Access:

GitHub Repository Setup and Workflow:

- Jaswanth Nalluri initially created the GitHub repository and provided access to all team members.

- The repository is organized with structured folders including backend, frontend, docs, and planning.
- Each member is working on their respective branches to implement features or fixes.
- Once individual work is completed and tested, branches are merged into the final main branch to maintain clean integration and project flow.

5. Discussion on Advanced Features:

- The team brainstormed additional advanced features to enhance system functionality.
- Ideas discussed included: real-time slot availability updates, fine calculation for overstay, automated email notifications for booking confirmations and reminders, and advanced analytics for admins (e.g., revenue tracking, user activity reports).

6. Project Planning and Timeline for Advanced Features:

- The team agreed to follow a feature-wise development approach.
- Timeline breakdown:
 - **Week 1 (18-03-2025 to 24-03-2025):** Development of real-time updates and fine calculation system.
 - **Week 2 (25-03-2025 to 30-03-2025):** Implementation of automated notifications and enhanced admin dashboard analytics.
 - **Week 3 (31-03-2025 to 03-04-2025):** Integration testing and UI refinements.
 - **Week 4 (04-04-2025 to 07-04-2025):** Final testing, bug fixing, and preparation for deployment.

7. Q&A and Next Steps:

- Team members clarified their individual responsibilities for advanced features.
- Everyone confirmed their understanding of the GitHub workflow and integration process.
- Next steps include:
 - Start immediate development of next set of advanced features and any bugs that are reported during assessment.

- Regular code reviews and testing before merging branches.
- Schedule follow-up meetings to track progress and address any blockers.

8. Action Items:

Backend Setup & API Integration

- Jaswanth Nalluri (Backend structure, API routing, server setup)
- Jaswanth Nalluri (MongoDB integration, middleware)

2. Authentication System (Sign Up, Sign In, Logout)

- Jaya Sai Reddy Santimalla (Auth APIs, JWT, frontend validation)

3. Parking Management (Models & APIs)

- Abhishek Darsha (Parking model, parking levels, CRUD operations)
- Anurag Lakkavathula (Parking controller updates)

4. Booking Management (Models & Controllers)

- Lakshmi Deepika Yadagiri (Booking model and controller, overstay handling)
- Anurag Lakkavathula (Booking controller functions)
- Jaya Sai Reddy Santimalla (Booking route connections to frontend)

5. User Management

- Anurag Lakkavathula (User model, user APIs, role management)

6. Statistics & Monitoring

- Jaswanth Nalluri (Statistics controller for slot usage, revenue, user activity)
- Jaswanth Nalluri (Cron jobs for overstay & fines)

7. Frontend Dashboard & Layout

- Sai Sri Naga Sashank Pasupuleti (Dashboard layout, user profile, routing, dialogs)

8. Frontend Integrations (Connecting to Backend)

- Jishna Sathvik Vucha (Connected backend services to frontend, page-level integration)
- Jaya Sai Reddy Santimalla (Booking and parking routes integration)

9. Frontend Components & UI Enhancements

- Nikhil Chowdary Kollipati (Frontend components)
- Dhiresk Venkateshwarlu Katuri (Frontend UI improvements)
- Sai Sri Naga Sashank Pasupuleti (Dialogs for slot booking, editing details)

Next Meeting: 04/10/2025, 10:00 AM

Meeting Adjourned: 11:00 AM