

Project Planning Phase

Project Planning Template (Product Backlog, Sprint Planning, Stories, Story points)

Date	6 APRIL 2025
Team ID	SWTID1742640402
Project Name	MyRide
Maximum Marks	4 Marks

Phases of Development

The project is structured into **7 key phases**, following Agile principles with 2-week sprints for iterative progress.

1. Requirement Analysis

- **Goal:** Define core functionalities for passengers, drivers, and admins.
- **Activities:**
 - Conduct user interviews/surveys to identify pain points (e.g., "I need faster driver matching").
 - Finalize tech stack: **MERN (MongoDB for geospatial data, Socket.io for real-time tracking)**.
 - Prioritize MVP features: *Booking, Payments, Live Tracking*.

2. UI/UX Design

- **Goal:** Create intuitive, mobile-first interfaces.
- **Activities:**
 - Sketch wireframes for critical flows:
 - Passenger: *Booking → Tracking → Payment*.
 - Driver: *Ride Acceptance → Navigation → Earnings*.
 - Prototype in **Figma** with dark/light mode options.
 - Validate via usability testing with target users.

3. Backend Development

- **Goal:** Build scalable APIs and real-time systems.
- **Activities:**
 - **Database:** Design MongoDB schemas (users, bookings with geospatial indexes).
 - **APIs:**
 - Auth (JWT for passengers/drivers).
 - Booking (fare calculation using Google Maps API).
 - Payments (Razorpay/Stripe integration).
 - **Real-Time:** Implement driver tracking with **Socket.io**.

4. Frontend Development

- **Goal:** Develop responsive, performant interfaces.
- **Activities:**
 - Build React components:
 - *MapView* (Google Maps integration).
 - *BookingForm* (autocomplete for locations).
 - State management: **Context API** for ride/authentication state.
 - Optimize for low-end devices (lazy loading, offline support).

Estimated TimeLine:

Phase	Duration	Status
Requirement Analysis	Week 1	Completed
UI/UX Design	Week 2	Completed
Backend Development	Week 3–4	In Progress
Frontend Development	Week 5–6	Planned
Testing & Debugging	Week 7	Planned
Deployment	Week 8	Planned
Feedback & Maintenance	Week 9+	Ongoing