**Project Planning Phase**

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

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| --- | --- |
| 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.

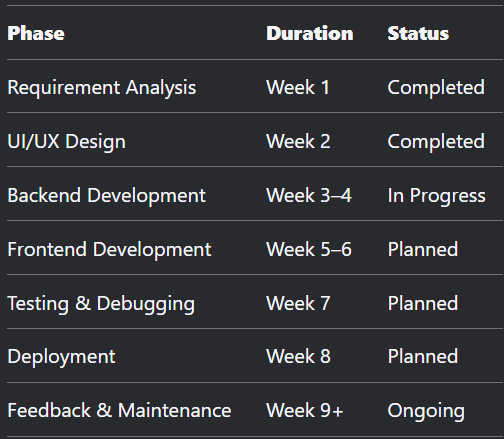
**3. Backend Development**

* **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:**

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