**PRD - Event-Based Ride Sharing**

**Overview**

The **Event-Based Ride Sharing** feature enables users attending the same events to share rides. By matching users with similar departure locations, event destinations, and times, this service provides a convenient and economical way for event-goers to travel together, reducing traffic congestion and emissions around event venues.

**Hero Scenario**

Users attending a major event (like a concert, sports match, or festival) receive a prompt to join an event-based ride share. They can view other attendees who are nearby and heading to the event, request a ride, or offer to share their own. Users traveling from similar locations or in the same direction are grouped for ride-sharing, with departure times adjusted for seamless arrival.

**Personas**

* **Event Attendee**: Uses ride-sharing to reduce travel costs, avoid event parking, and socialize with others going to the event.
* **Driver**: Attendee offering to share their vehicle, earning either incentives or fare shares.
* **Event Organizer**: Facilitates event pooling to improve attendee experience, reduce venue congestion, and promote eco-friendly travel.
* **Developer**: Ensures the platform scales to handle high user activity, integrates with event ticketing, and provides real-time route updates.

**Key User Stories**

**1. Event Ride Matching and Pool Creation**

* **As an attendee, I want to find ride-share options with other event-goers near me** so that I can share transportation costs and enjoy a convenient ride to the event.
* **As a driver, I want to offer available seats in my vehicle for the event** so that I can share costs or earn incentives.
* **As an attendee, I want to view all available ride shares to my event** to choose the option that best fits my schedule and location.

**2. Real-Time Pooling and Route Optimization**

* **As a user, I want to see estimated arrival times and share departure times** so that I can plan my trip and reach the event on time.
* **As a driver, I want optimized routes that pick up multiple passengers** along the way to reduce travel time and maximize ride-sharing efficiency.
* **As an attendee, I want live updates on my ride status** to know when to expect pickup and estimated arrival.

**3. Seamless Event Integration and Notifications**

* **As a user, I want to be notified of ride-sharing options when I book my event ticket** so that I can arrange transportation early.
* **As an attendee, I want to receive notifications when the ride-share pool is ready to depart** to ensure I don’t miss my ride.
* **As a user, I want to integrate my event ticket with my ride-sharing app** to easily access ride-share options for any event I’m attending.

**4. Safety, Trust, and Rider Communication**

* **As a user, I want to view profiles of other riders in my ride-share pool** to feel secure and decide who I’ll be sharing the ride with.
* **As a user, I want an option to communicate with other riders or the driver in the pool** to coordinate pickup points or updates.
* **As an attendee, I want ride-share safety features like driver ratings, emergency contacts, and SOS alerts** to ensure a safe and comfortable experience.

**5. Ride Preferences and Cancellation**

* **As a user, I want to select preferences like music, talk level, or pet-friendly rides** for a comfortable and enjoyable ride.
* **As a user, I want the ability to cancel my ride-sharing reservation if plans change** so that other attendees can use the spot if needed.
* **As a driver, I want to manage who I’m sharing my ride with** by approving or declining riders who request to join my vehicle.

**6. Data Insights for Event Organizers**

* **As an event organizer, I want insights on how many attendees are using ride-sharing** to understand transportation demand.
* **As an organizer, I want metrics on average rider ratings, user satisfaction, and drop-off times** to improve the service and optimize future events.

**Metrics**

To measure the success of the Event-Based Ride Sharing feature, the following metrics will be tracked:

* **User Engagement**:
  + Number of attendees using ride-sharing for events.
  + Average number of shared rides per event.
  + User retention and re-engagement rates for future events.
* **Cost and Efficiency**:
  + Average savings per user through shared rides.
  + Efficiency metrics like total ride time, fuel savings, and reduced emissions.
* **Platform Performance**:
  + System reliability and response time during peak event periods.
  + Success rate of real-time pooling and route optimization.
* **User Satisfaction**:
  + Rider and driver ratings.
  + Feedback on pool safety, comfort, and punctuality.

**Mockups**

1. **Ride-Share Request Screen**: Shows available ride-share pools to the event, estimated costs, departure times, and details about other riders.
2. **Real-Time Map and Route View**: Displays the driver’s location, pickup points, and estimated time of arrival to the event.
3. **User Profile and Ride Preferences**: Interface for setting ride preferences, viewing fellow rider profiles, and adjusting notification settings.
4. **Event Integration and Notifications**: A prompt in the event booking confirmation, offering ride-share options and timely reminders.