

Scrum Documents

Hitch

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5 December 2023

Release Plan:

Storyboard:

Let's just say you live downtown and you're going to the human lecture hall. The route is taken by many students across the Santa Cruz area. Wouldn't it be cool to make some money driving to a place you're already going. With this app Hitch allows you to post your route in our app and allows you to connect with similar people who are already going the same place allowing you to make some money while you're going to a route you're already traveling. Vice versa you would be able to hitch a ride with people who are traveling the same route you are allowing you to save gas money and mileage on your car.

With our app you can set how far you're willing to travel off course to pick up people. This app allows you to set your own price as well.

User Goals:

1. User Profile and Ride Setup:

- **Allow users to set their ride details, including:**
 - Starting Point
 - Destination
 - Starting Time
 - Number of Available Seats
 - Cost Per Seat
 - Distance for Pick-Up (Start Point, On Route, and End Point)
- Provide an intuitive and user-friendly interface for entering these details.

2. Search and Matching:

- **Ride Search Interface:** Design a user-friendly search interface that allows users to specify their search criteria (e.g., start point, destination, price range).
- **Matching Algorithm:** Develop an algorithm to match user preferences with available rides and prioritize the most relevant matches.
- **Price Filter:** Implement a filter that displays rides within the user's price range and sorts them by relevance.

3. Ride Posting and Route Generation:

- **Ride Posting Form:** Create a form for users to enter ride details and generate a route.
- **Route Generation Algorithm:** Implement an algorithm that accurately generates a route based on the provided ride details.
- **Verification and Confirmation:** Ensure that users receive a confirmation or summary of their posted ride, including the generated route.

- **Route Display:** Display the ride route on a map, showing the starting point, destination, and key pick-up points.

4. **Accepting Riders:**

- **Request and Acceptance Mechanism:** Develop a system that allows users to send ride requests and ride owners to accept or decline those requests.
- **User Communication:** Provide a way for users to communicate and coordinate details, such as pick-up times and meeting points.
- **Booking Confirmation:** Implement a feature that confirms when a rider is successfully accepted onto a ride and updates ride details accordingly.

App Functionality Goals:

1. **Start Point, Destination, Time-frame, and Price Setting:**

- **Input Fields:** Incorporate user-friendly input fields or forms enabling users to specify ride details such as starting point, destination, time-frame, and pricing.
- **Date and Time Selection:** Utilize date and time pickers to assist users in accurately setting the starting time of their rides.
- **Pricing Structure:** Devise a pricing structure enabling users to set the cost per seat, with implemented validation for reasonable pricing.
- **Map Integration:** Integrate mapping or geolocation services to aid users in selecting their starting and ending points.

2. **Ride Matching and Price Filtering:**

- **Matching Algorithm:** Develop an algorithm considering user preferences and ride details to identify suitable matches.
- **Search Filters:** Allow users to apply filters, including price filters, refining their ride search results.
- **Sort and Display:** Display organized search results, prioritizing the best matches for user convenience.
- **Notification System:** Implement a notification system to alert users of new ride matches or any changes.

3. **Ride Posting and Route Generation:**

- **Posting Form:** Create an intuitive form for ride owners to input details, incorporating validation and error handling.
- **Route Generation Algorithm:** Develop a robust algorithm generating accurate routes based on entered ride details.
- **Confirmation and Review:** Provide a confirmation step for ride owners to review their posted ride and the generated route.
- **Mapping and Navigation:** Integrate mapping and navigation services to display ride routes, aiding riders and drivers in navigation.

4. **User Interaction and Ride Acceptance:**

- **Ride Request Mechanism:** Establish a system for users to send ride requests to ride owners.
- **Acceptance Workflow:** Create a workflow enabling ride owners to accept or decline ride requests.
- **In-App Messaging:** Implement in-app messaging to facilitate communication between riders and drivers for effective coordination.

- **Booking Status:** Offer real-time status updates for ride bookings, including accepted requests and confirmed bookings.

User Stories:

- User Story: As a user, I want a UI in which I can create an account.
- User Story: As a user, I want to be able to logout of my account.
- User Story: As a driver, I want to be able to post a ride I am interested in offering.
- User Story: As a user, I want a UI displaying my Geo-location, so I can plan or view my active/pending rides.
- User Story: As a rider, I want to be able to search through available rides near me and filter by price.
- User Story: As a rider, I want to be able to request to join an available ride.
- User Story: As a driver, I want to be able to accept or decline incoming requests to my ride.
- User Story: As a rider, I want to be able to leave a ride that I joined.
- User Story: As a driver, I want to be able to cancel my ride.
- User Story: As a rider, I wish to view all rides that I have completed.
- User Story: As a driver, I wish to view all rides that I have driven and completed.

Sprint 1: User Registration and User Logout

1. User Story: As a user, I want a UI in which I can create an account.
 - Story Points: 4
2. User Story: As a user, I want to be able to logout of my account.
 - Story Points: 2

Sprint 2: Ride Posting and Searching

1. As a user, I want to be able to post a ride I am interested in offering.
 - Story Points: 5
2. User Story: As a rider, I want to be able to search through available rides near me and filter by price.
 - Story Points: 7

Sprint 3: Request Management and Geo-location

1. As a user, I want a UI displaying my Geo-location, so I can plan or view my active/pending rides.
 - Story Points: 8
2. User Story: As a rider, I want to be able to request to join an available ride.
 - Story Points: 7
3. User Story: As a driver, I want to be able to accept or decline incoming requests to my ride.
 - Story Points: 8

Sprint 4: Ride Option Availability and Ride Completion

1. User Story: As a rider, I want to be able to leave a ride that I joined.

- Story Points: 6
2. User Story: As a driver, I want to be able to cancel my ride.
- Story Points: 7
3. User Story: As a rider, I wish to view all rides that I have completed.
- Story Points: 5
4. User Story: As a driver, I wish to view all rides that I have driven and completed.
- Story Points: 5

Sprint 1

Sprint Plan:

User Story: As a user, I want a UI in which I can create an account.

User Story: As a user, I want to be able to logout of my account.

User Story	Tasks	Estimated Time (hrs)
<u>User Story:</u> As a user, I want a UI in which I can create an account.	Design account creation page	6 hours
	Implement fields for personal information	4 hours
	Add error handling for duplicate emails, phone numbers, and usernames	4 hours
	Implement account creation success/error messages	2 hours
<u>User Story:</u> As a user, I want to be able to logout of my account.	Implement logout button	2 hours
	Develop functionality to delete authentication token and session data	4 hours

Sprint 2

Sprint Plan:

User Story: As a driver, I want to be able to post a ride I am interested in offering.

User Story: As a user, I want a UI displaying my Geo-location, so I can plan or view my active/pending rides.

User Story	Tasks	Estimated Time (hrs)
<u>User Story:</u> As a driver, I want to be able to post a ride I am interested in offering.	Add "Post a Ride" option in dashboard	2 hours
	Create UI for entering ride details	4 hours
	Implement database storage for posted rides	7 hours
<u>User Story:</u> As a user, I want a UI displaying my Geo-location, so I can plan or view my active/pending rides.	Integrate map to display Geo-location	12 hours
	Show active/pending rides on map or list	10 hours

Sprint 3

Sprint Plan:

User Story: As a rider, I want to be able to search through available rides near me and filter by price.

User Story: As a rider, I want to be able to request to join an available ride.

User Story: As a driver, I want to be able to accept or decline incoming requests to my ride.

User Story	Tasks	Estimated Time (hrs)
<u>User Story:</u> As a rider, I want to be able to search through available rides near me and filter by price.	Develop ride search feature based on proximity	6 hours
	Implement price filtering	5 hours
	Display detailed ride information in search results	6 hours

<u>User Story:</u> As a rider, I want to be able to request to join an available ride.	Add "Request to Join" button	2 hours
	Implement request sending functionality	10 hours
	Develop feedback mechanism for request status	6 hours
<u>User Story:</u> As a driver, I want to be able to accept or decline incoming requests to my ride.	Notify driver of incoming requests	3 hours
	Create UI options to accept/decline requests	3 hours
	Implement notification for riders on request status	6 hours

Sprint 4

Sprint Plan:

User Story: As a rider, I want to be able to leave a ride that I joined.

User Story: As a driver, I want to be able to cancel my ride.

User Story: As a rider, I wish to view all rides that I have completed.

User Story: As a driver, I wish to view all rides that I have driven and completed.

User Story	Tasks	Estimated Time (hrs)
<u>User Story:</u> As a rider, I want to be able to leave a ride that I joined.	Implement feature on front-end to leave a ride	3 hours
	Update ride association for the rider	5 hours
<u>User Story:</u> As a driver, I want to be able to cancel my ride.	Add cancel ride option for drivers	3 hours

	Remove ride from system upon cancellation	7 hours
<u>User Story:</u> As a rider, I wish to view all rides that I have completed.	Develop UI section for rider history	9 hours
	Display completed rides with details	4 hours
<u>User Story:</u> As a driver, I wish to view all rides that I have driven and completed.	Create UI section for driver's ride history	9 hours
	List completed rides with details	4 hours