

CS 5800.01 - Advanced Software Engineering

Homework-2

Answers

1) Navigation

Title: Get Directions

Primary Actor: User

Success Scenario:

1. Upon launching CPP Maps, the person using it chooses an initial location and a destination.
2. The application processes the input and calculates the best possible route based on the user's preferences (fastest, shortest, avoiding tolls).
3. CPP Maps displays the route on the map with detailed step-by-step directions.
4. The user follows the directions to reach the destination successfully.

2) Search

Title: Place Search

Primary Actor: User

Success Scenario:

1. In the CPP Maps search bar, users enter the name of a location, such as "Zoo, Nordstrom".
2. The application searches its database for matching locations and displays a results list.
3. The user selects the desired place from the list to view more information (location on the map, hours of operation, reviews).
4. The user can navigate to the place or save the location for future reference.

3) Explore

Title: Place Search by Category

Primary Actor: User

Success Scenario:

1. The user selects the "Explore" feature and chooses a category (like "Gym, Restaurants, University").
2. CPP Maps displays a list of places within the selected category, sorted by proximity, ratings, or user preferences.
3. The user selects a place to view detailed information and reviews.
4. The user then decides to visit the place and may use the navigation feature to get directions.

4) Share Location

Title: GeoLocation

Primary Actor: User

Success Scenario:

1. The user selects their current location on CPP Maps and chooses the "Share Location" option.
2. The application prompts users to select a messaging app installed on their phone.
3. The user selects a contact and sends the location through the chosen messaging app.
4. The recipient receives the location and can view it on their device, facilitating meet-ups or assistance.

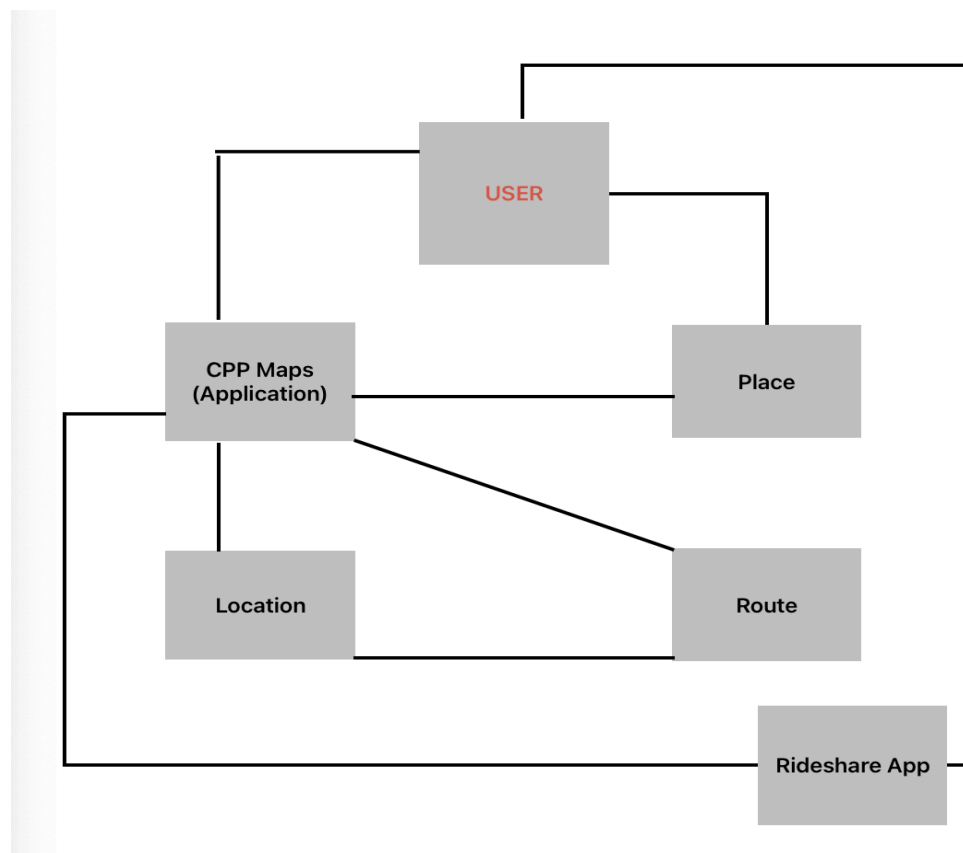
5) Share Rideshare

Title: Rideshare Location Sharing

Primary Actor: User

Success Scenario:

1. The user picks the "Share Rideshare" option after deciding on a destination on CPP Maps.
2. CPP Maps displays a list of available rideshare apps installed on the user's phone (e.g., Uber, Lyft).
3. The user selects their preferred rideshare app, and CPP Maps automatically inputs the destination in the app.
4. After completing their reservation using the ridesharing app, the user waits for their ride to the desired location.



Part C:

CRC CARDS

User	
Input starting and destination locations	CPP Maps
Search for places of interest	Place
Select navigation options	Rideshare Apps
Request ride-share services	CPP MAPS

CPP Maps	
Receive user inputs	User
Display map and navigation information	Location
Calculate routes	Route
Integrate with ride-share services	Rideshare apps
Provide search functionality for places	Place

Location	
Store location data(initial, destination, current)	CPP Maps
Provide location updates	Route

Route	
Calculate distance from start to end location	Location
Provide route updates and direction	CPP Maps

Place	
Store details of places of interest(name)	User
Provide information to users	CPP Maps

Rideshare App	
Interface with Lyft, Uber and manage ride details	CPP Maps

