Caravan

Software Elicitation Assignment #1

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Project Description

For travelers who drive together in separate vehicles, Caravan is a mobile app that allows you to start trips with other people and keep track of their locations. But unlike Life360, our product is based on trips: when a trip ends, the trip members' locations will no longer be tracked.

Target runtime platform: iOS, Android

Similar products: Roadtrippers, Google Maps, Life360

Personas

Robert Smith, age 45

He loves to explore the world, so he decided to be a truck driver because he wanted a simple life.

He is a high school dropout and with his job, he uses older versions of smartphones as they are cheaper to buy or replace.

His job requires him to be on the job all the time, so he occasionally goes to similar locations with other drivers in his company.

Joe Jay, age 26

He is a workaholic, so he works as a business manager and is also working toward a master's degree.

He has a high level of understanding in all sorts of technology as his job forces him to know specific areas.

Because he has employees moving all the time, he has to be able to track them to ensure they are working on the clock and not fooling around.

Scenarios

Robert is a truck driver working for a construction company. Since his job requires to be on the road all the time, he frequently encounters people he is familiar with at truck stops.

As a result of this, he intends to use the Caravan app to form a trip together with a group of his friends and newcomers to the industry to see who is at a truck stop. He also uses it as an easier way to help each other out, by looking at each other's location and recommending a better route to take.

He also knows of other groups doing this same method and would like to talk with different trip initiators from time-to-time; however, he is unable to do so on the app itself and so he texts them or uses an alternative texting app.

Joe works as a business manager, so his employees have the luxury to move all over the state he resides in.

Joe downloads the Caravan app on all company-issued smartphones, designates a specific serial number with them, and initiates a trip with whoever is going on a company-related trip at the time. He ensures that everyone is heading to their correct location and once they reach said place, Joe removes them from the trip.

On specific days, however, Joe himself needs to go out and conduct business on location that only he can verify. While he wants to transfer "ownership of the trip" to another manager or secretary without giving his phone, he gives them his phone and tells them to ensure people are going to where they need to be, while he grabs a temporary phone.

User Roles

Trip Initiator

They are essentially the leaders/admins of the group, while at the same time they also have the abilities of a trip member. They have the ability to kick people and invite people to the group, if the trip hasn't ended yet. They can also end the trip.

Trip Member

When in a trip, they can see everyone's location on a map from another source. And if they get kicked from a trip, they get a message that says they were kicked. They also get a message saying that the trip is over once the trip initiator ends the trip.

Product Backlog

1 As a trip initiator, I want to be able to transfer leadership to another member.

2 As a trip member, I want to take a vote with other members to forcibly transfer leadership from the initiator over to someone else.

3 As a trip initiator, I want to know how long a member is stationary for.

4 As a trip member, I want to be able to talk/text with other members without exiting the app.

5 As a trip initiator, I want to use a QR code to simplify the invitation process if I am meeting with people in person.

6 As a trip member, I want to be able to report other members or the initiator for doing inappropriate actions.

7 As a trip member, I want to place markers with names on the map for other members to see so that they know why I am marking it.

8 As a trip member, I want to be able to end the trip on a vote.

9 As a trip member, I want to place markers of interest for other trips to see.

10 As a trip initiator, I want to set a location on the map so that trip members can travel in the relatively same direction.

11 As a trip member, I want to see pictures of locations of interest.

12 As a trip member, I want to be able to join a trip without entering a code and instead with a push notification.

13 As a trip member, I want to see different locations such as gas stations so that I am better prepared for the trip.

14 As a trip initiator, I want to modify the messages that members get when they are kicked out of the trip.

15 As a trip initiator, I want to be able to combine trips together.

16 As a trip initiator, I want to have multiple initiators/admins so that sole responsibility is not on me.

17 As a trip initiator, I want to be given the option to have the members also add others as they wish, while maintaining my ability to kick people.

18 As a trip initiator, I want to have my trip protected by a secret code so that other people who find the invitation don't accidentally join the trip.

19 As a trip member, I want to be able to leave a trip so that I am not stuck if my initiator forgets to end it.

20 As a trip member, I want to have my own account instead of filling in my name every time.

21 Integrate Google Maps or another aggregate map.

22 Add location tracking to each member of the trip.

23 Test the maps to ensure it can scroll anywhere, zoom in and out, and lastly center back on the trip members.

24 Ensure the app is fully functional for iOS and Android.

25 Replace the invitation process with a simpler method, such as QR codes.

Features

<u>Easier Invitation</u>

The invitation process may be a little troublesome so changing it to QR codes should simplify the process.

QR codes may be difficult to use if you are not there in person, so alternative options should be explored.

<u>Leadership Transfer</u>

Leadership should be easily transferred to a selected member of the trip or another person outside of the trip.

It may be difficult to perform if someone is not in the trip.

Based on Joe's scenario.

<u>Text in the App</u>

Texting without leaving the app

As a trip member, I want to be able to talk/text with other members without exiting the app.

May cause issues with the UI

Based on Robert's scenario

Responsibilities

Give the initiator the option to add responsibilities to different or all members of the trip

May cause issues within the group

Idle Initiator

If the initiator is idle for too long, i.e. not moving for a while, then leadership should be transferred.

May conflict with the Leadership Transfer feature.