

# Location Saver App Design Documentation

## User Story 1:

Jane drove her car to attend an art fair in Pleasantville on Sunday. She had been to Pleasantville only once in the past two years and was not familiar with the town. She arrived at the fair but found all the street-side parking spots filled. She circled around somewhat anxiously. After 10 minutes she finally found an empty spot in the middle of a street which she did not know the name. She happily parked her car, but before heading to the fair, she wanted to save the location of her parking spot on her smartphone so that she could later walk back easily. She started the LocationSaver app, which immediately showed her current location on Google Map in a small dot, along with a circle indicating the precision of GPS signal. She pushed a prominent "Save Location" floating button, which brought up a dialog to let her input information about the location, with default values for fields such as "name", "coordinate", "address" already filled in. Jane just wanted to quickly save the location, so she left all these default values unchanged and pressed the "save" button. Her parking location was saved with the name "2015\_09\_13\_105824", corresponding to the current date and time.

After enjoying herself at the fair, Jane opened the LocationSaver app again, and swiped to the "Saved Locations" tab. The screen displayed a list of her saved locations with the most recent one (named "2015\_09\_13\_105824") on top. She clicked the entry, which opened her favorite mapping app (Google Map) and showed her parking location in a red pin, and her current location in a blue dot. From Google Map she quickly navigated back to her parking spot without trouble.

## User Story 2:

John was hiking on a remote trail in Mount Ballard for the first time. There was no network access in that part of the State. After a switchback, he was suddenly presented with an incredibly gorgeous view, with alpine meadows teeming with wild-flowers and the snow-capped Mount Ballard in the distance. He was so struck by the beautiful view that he wanted to save the location so that he could come back later with his girlfriend. He opened the LocationSaver app and pushed the "Save Location" floating button, which brought up the save screen with precise GPS coordinates. He renamed the location "Best view in Mt. Ballard". He wanted to attach a photo of the incredible view to this location, so he pressed the "Take Photo" button, which brought up the phone's camera app. He took the picture, and saved the location with the photo attached.

Back at home when there was network access, John opened the LocationSaver app and clicked the "Best view in Mt. Ballard" entry. This opened the Google Map app with the location shown with a red pin. John saved the location in Google Map with the same name. Since he shared his Google Map with his girlfriend, she could immediately see the location as well as photo of the incredible view.

## Major functionalities:

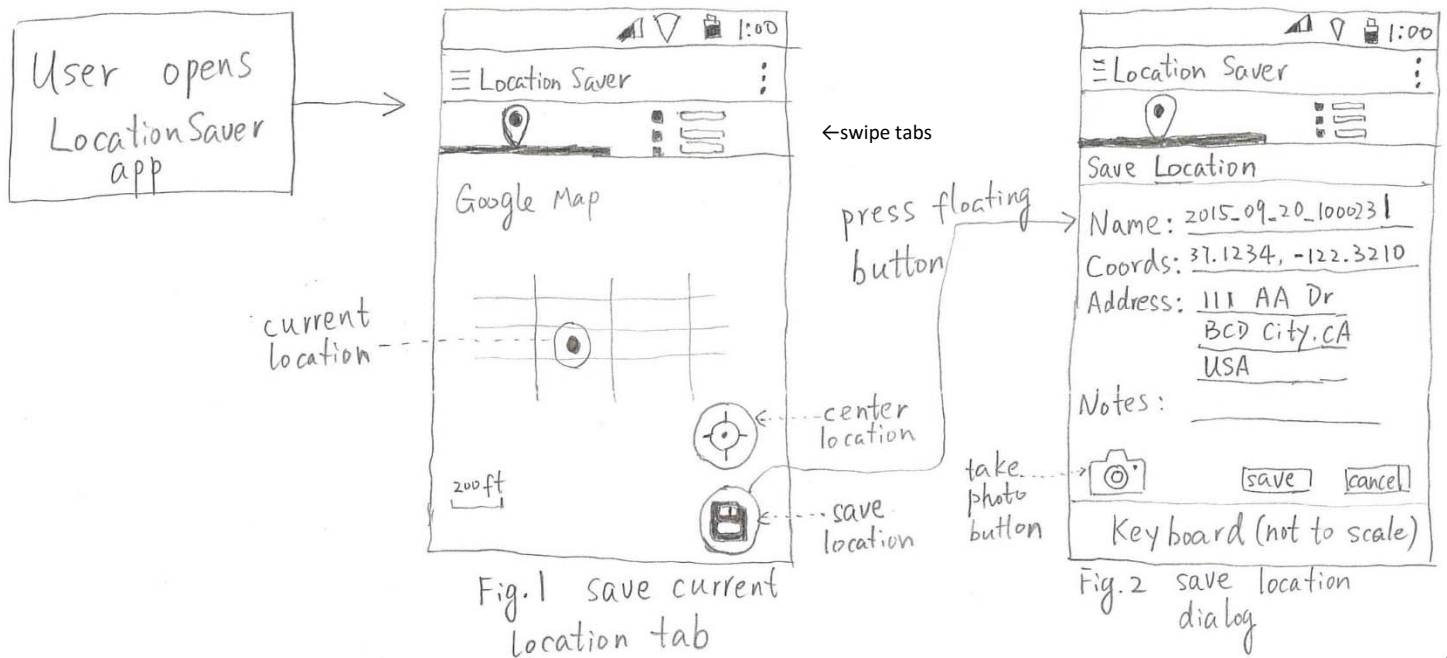
- Works with or without network access
- Two tabs on screen: Current location & Saved location list
- Current location tab shows current user location on Google Map with circle indicating precision
- Let user press one button to bring up save location dialog
- Let user enter fields about location name, coordinates, address and notes in save location dialog
- All fields pre-populated with default values so that users can press one button to save immediately
- Let user take picture to attach with location using phone's camera app
- Locations saved on phone's storage, can be viewed in mapping apps
- Saved location list shows saved locations in chronological order
- Each list item include location name, address, picture if available
- User can click on each item to show the location in mapping app of user's choice

- User can edit location list, change their order, and edit each saved location, including its name, address, notes, and attached photo

#### Optional functionalities if time permits:

- Locations automatically synced with Google Map's my location list

### Story Board



(next page)

Swipes to my locations list tab

click entry to open location in Mapping app



Fig. 3 My locations list

click

picture thumbnail, press to open full picture

click entry to edit

cancel

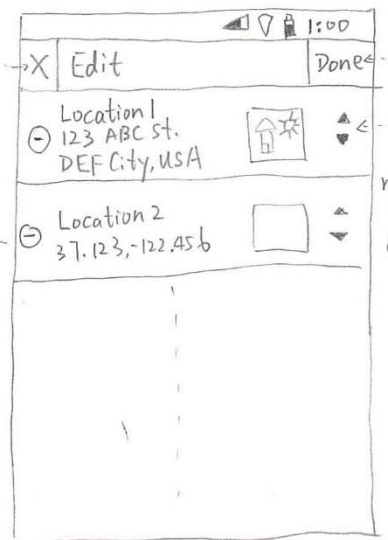


Fig. 4 Edit location screen

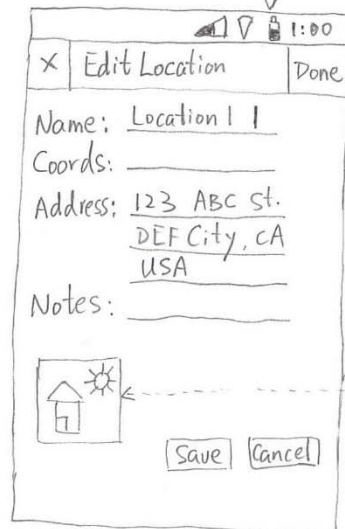


Fig. 5 Edit entry screen

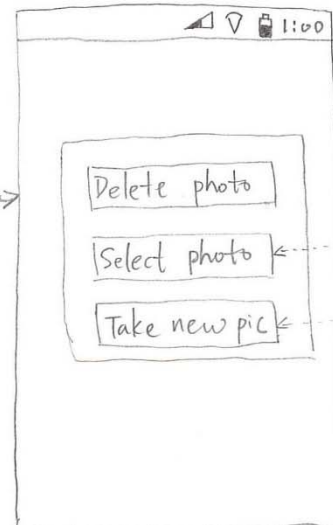


Fig. 6 Edit picture dialog