

CSC 780 : Application Development for Mobile Devices

Application Design Document

Name of Application : Travel Logger (tentative)
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GitHub URL : <https://github.com/AbhijitParate/AndroidDevelopment>

Application Description :

Travel Logger is an personal travel diary. It shall allow to log travel details in the form of photos, videos, audio clips, and plain text in more organized way. The logs shall be grouped into different trips and inside each trips the logs will be ordered in chronological order. Along with the media, the app shall also store the metadata for every log in the form of GPS Coordinates, Date and time. The logs are stored in the device memory or SQLite DB and shall be further uploaded to cloud.

The media can be added to the logs on the go or from file system which will allow to use existing images/videos/audios on the device. The app provides basic media editing features like cropping and rotating for editing the images, videos and audios. If time permits the feature to convert videos into hyperlapse or slomos shall be included.

The app shall have registration process to support the cloud upload. If time permits I'm planning use google and facebook APIs for registration also to make the app support google glass to make log entries.

Motivation :

One of the motivation behind the development of travel logger is that I love to travel and I end up collecting lots of photos and videos. There are no good ways to store those files in more efficient way than to dump everything in hard drive with folder named with the visited destination. Also, there are few apps on playstore which provide these features but they very tedious to use and view later. Travel logger shall provide straightforward UI and simple to understand and use and better organization. Upload to cloud feature has potential to extend the project with addition web application and share the trips or view online.

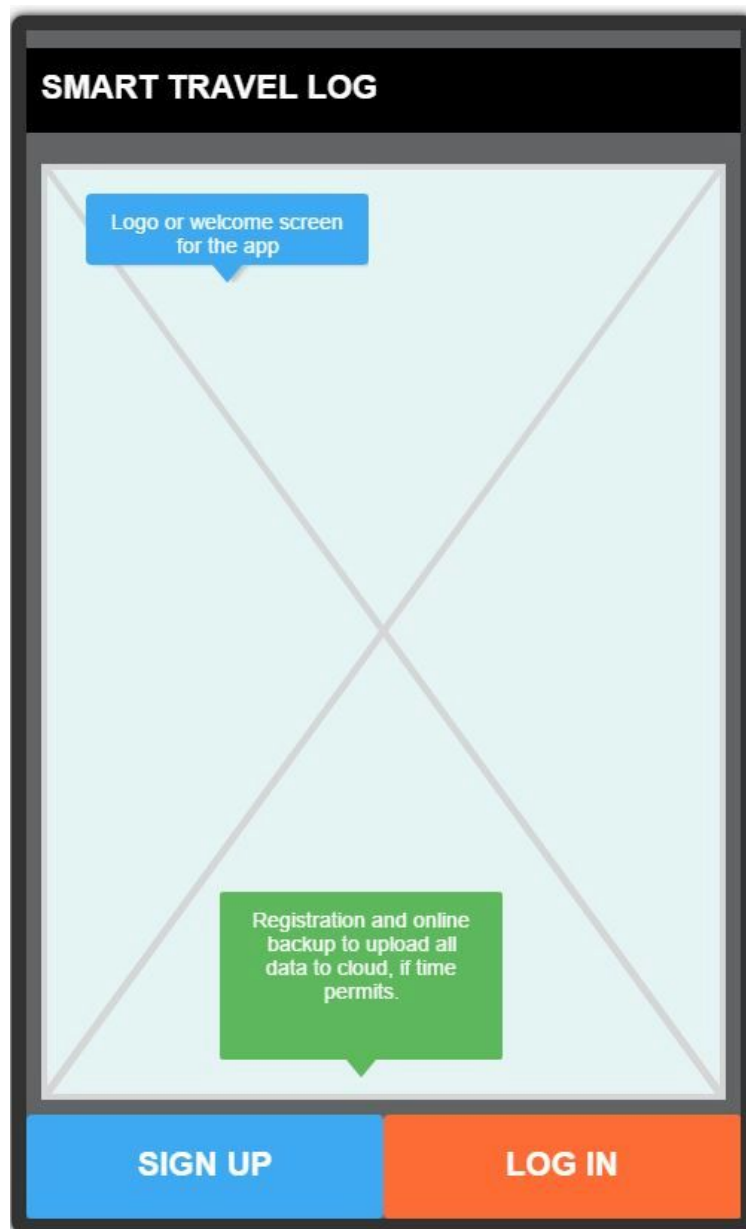
Design :

I used online tool provided by www.fluidui.com to develop the UI/Mock Ups.

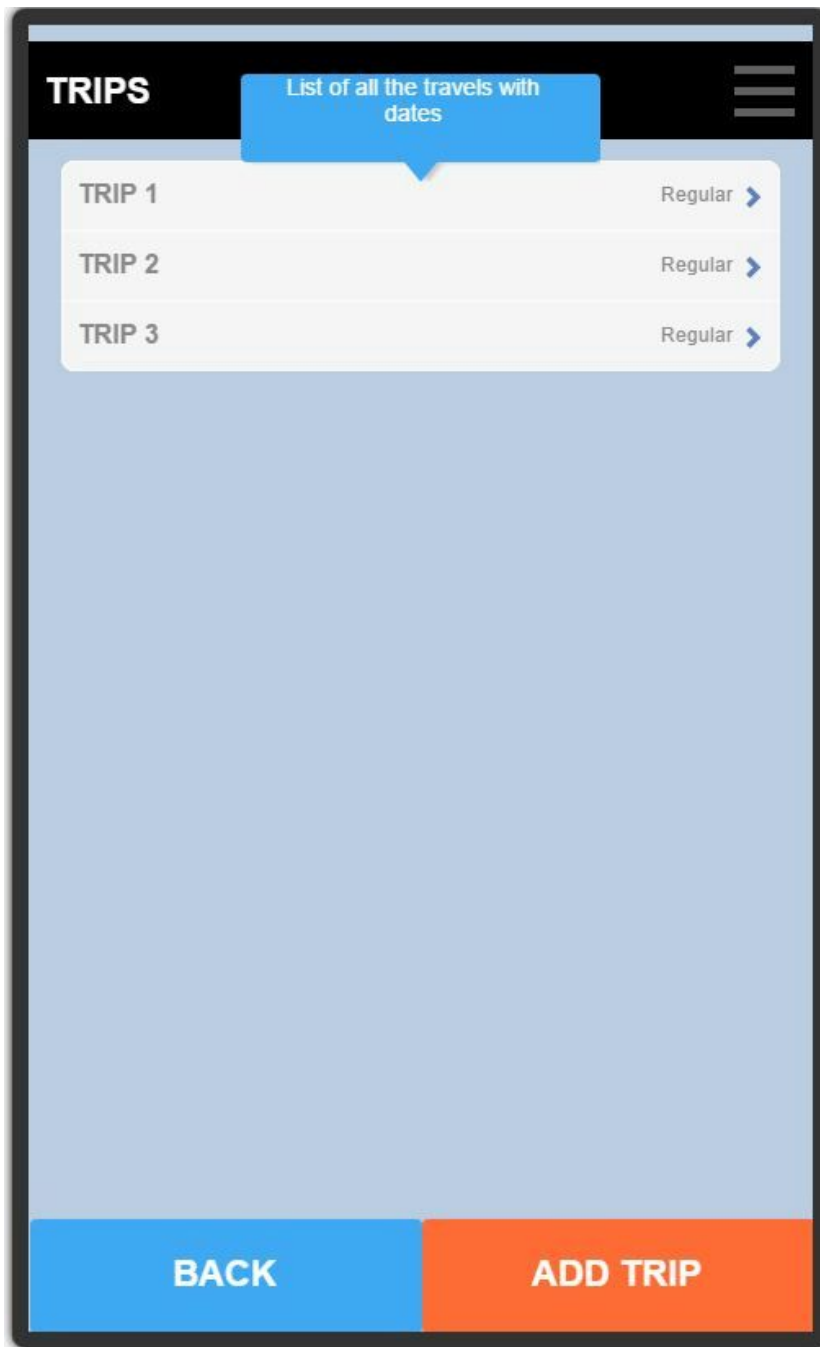
Here's the link to the demo : [click here](#)

1. **Start Application** : The first screen after starting the application, the first screen shows the welcome screen of the app. Providing options to log in or register (If the app is being launched for the first time). The app shall have guest mode if person chooses to opt not

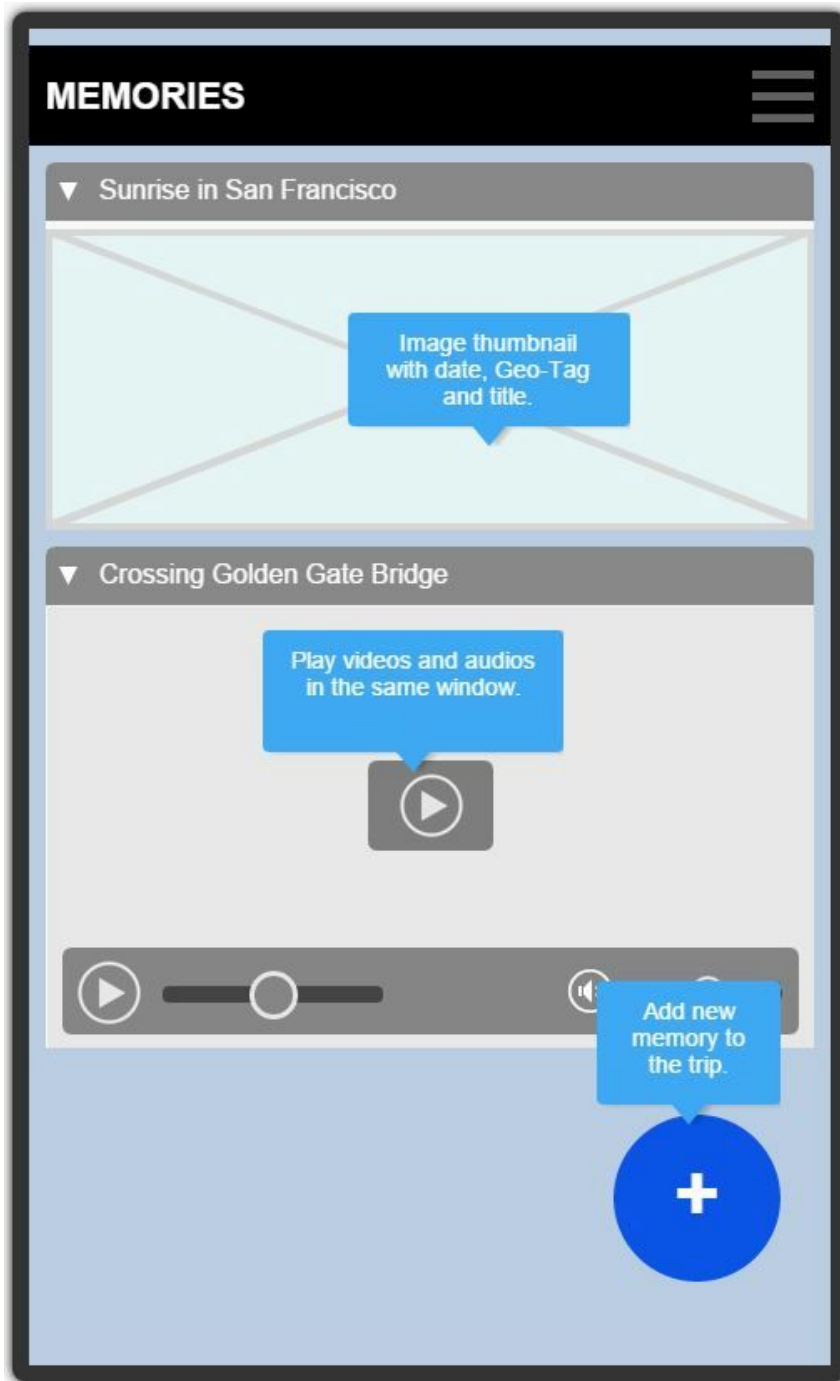
to share the mail information which will restrict the log entries to be stored locally on the device.



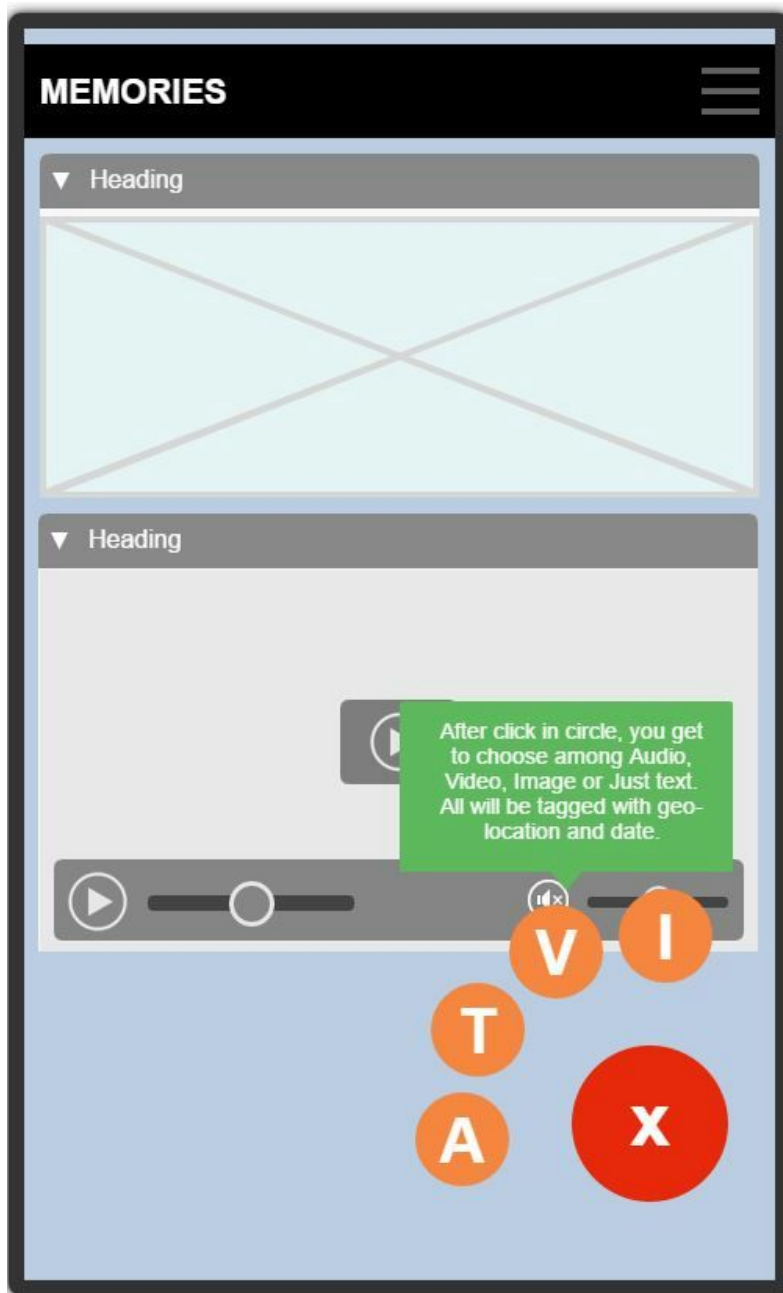
2. **Successful Login:** List of previous trips saved with option to add new one.



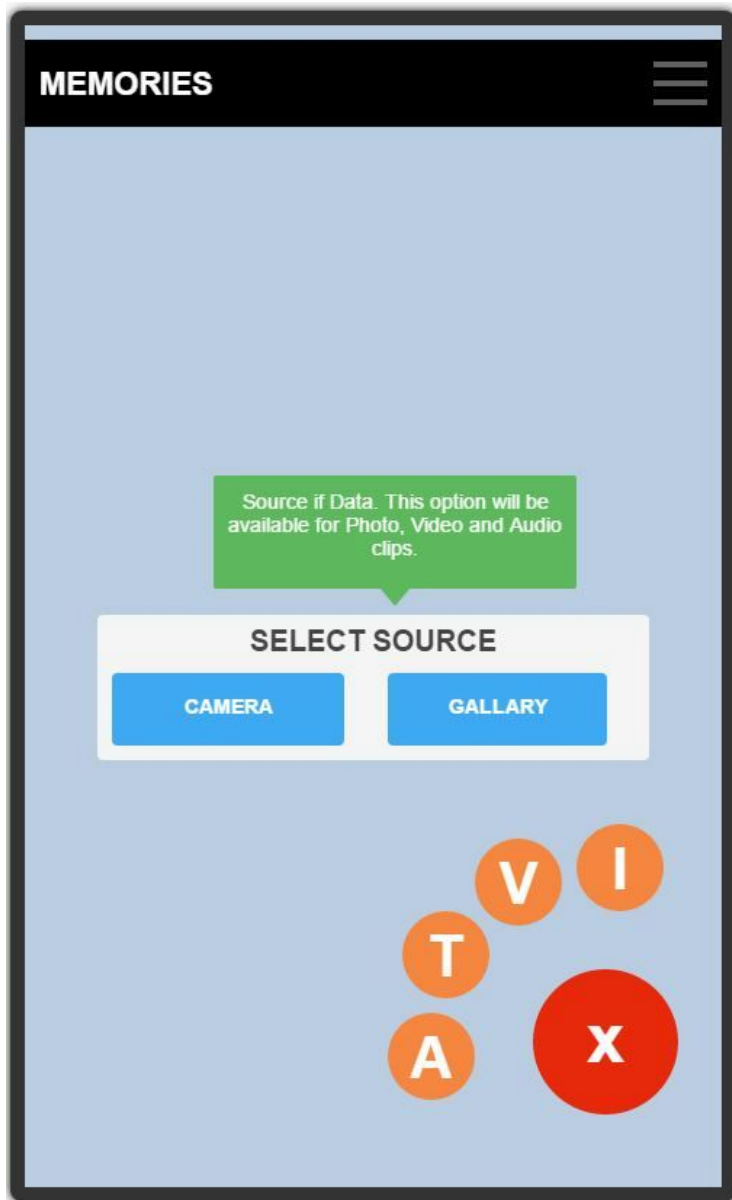
3. **Trip Management:** This screen will show the previous logs on chronological order with option for choose the sorting order. The log entries shall have the edit options like delete. The blue circle at the bottom of the screen shall give option to choose type of log entry (Image, Video, Audio, Text).



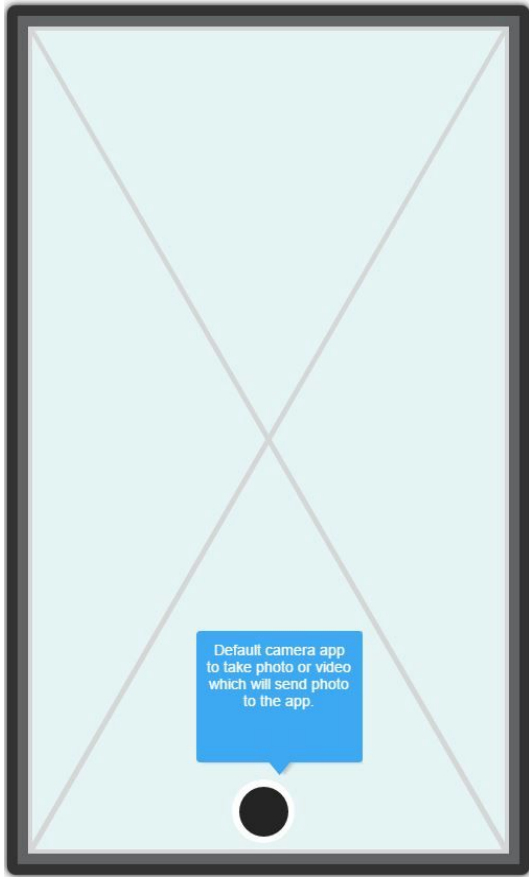
4. **Log Management:** On clicking the add button (blue circle) opens more option to choose among the available options.

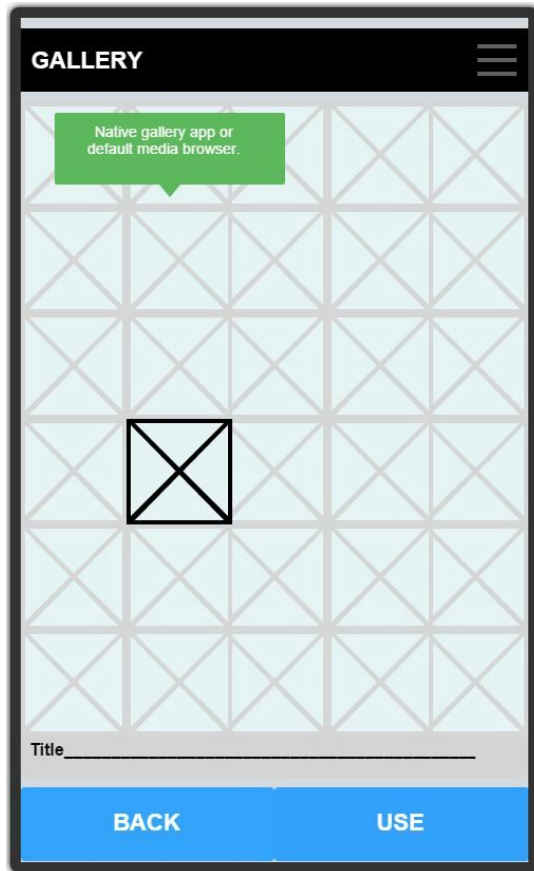


5. **Choosing the option:** Click on Image button (I). This means you wish to add a photo as a log entry. The photo can be from camera or from the file system. After clicking on the I the app shall provide that option.

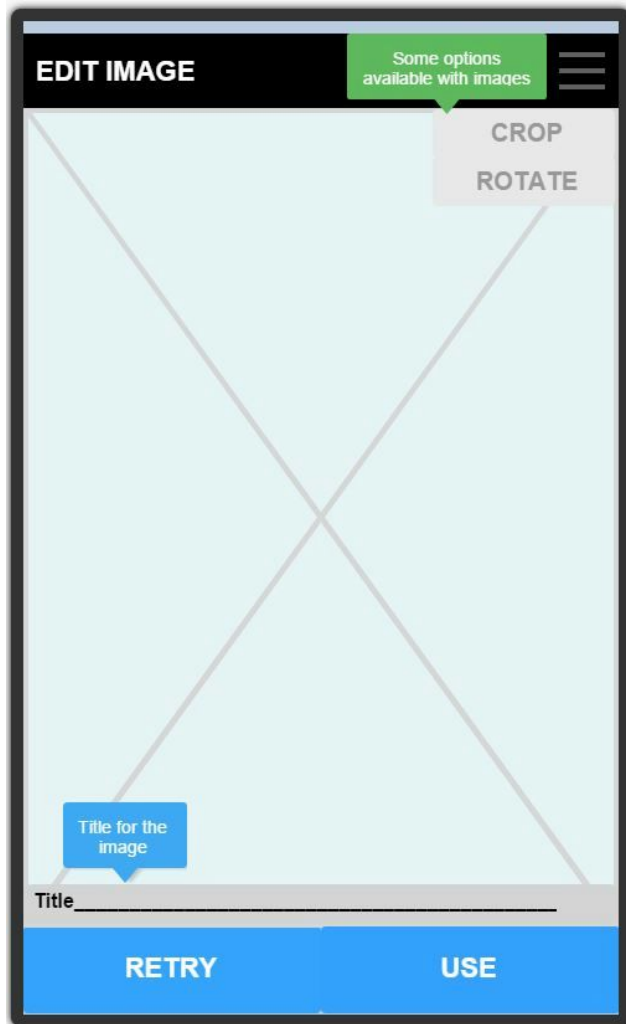


6. **Source Selection** : Based on the user choice, corresponding app will be launched ie, Gallery or Native camera app.

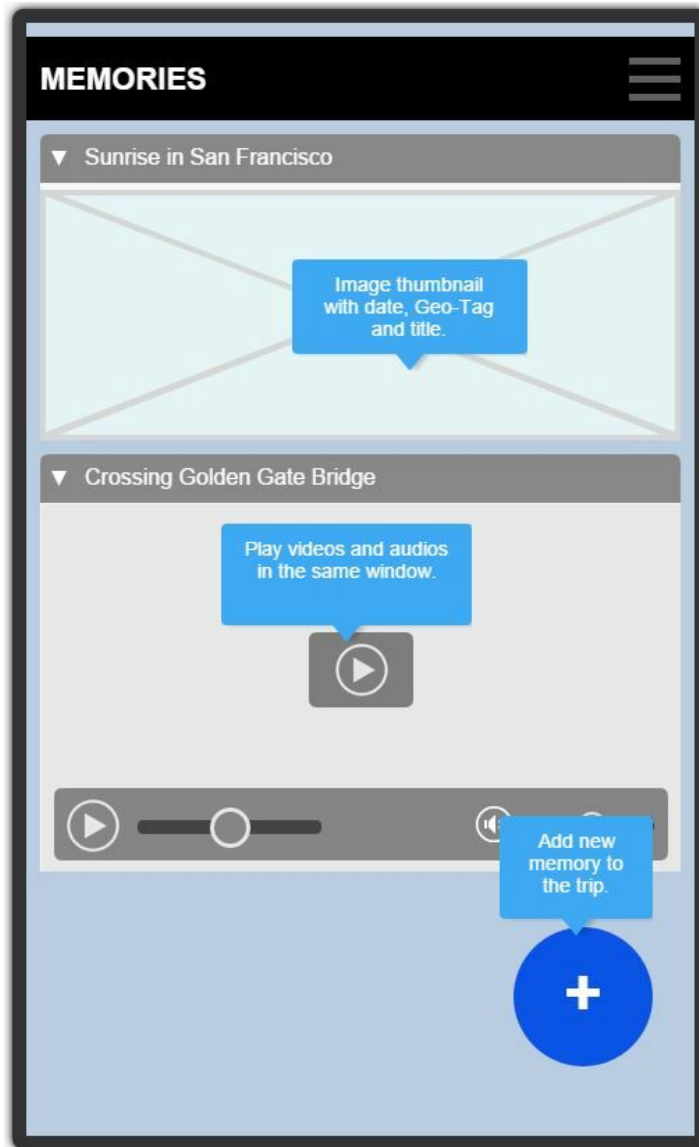




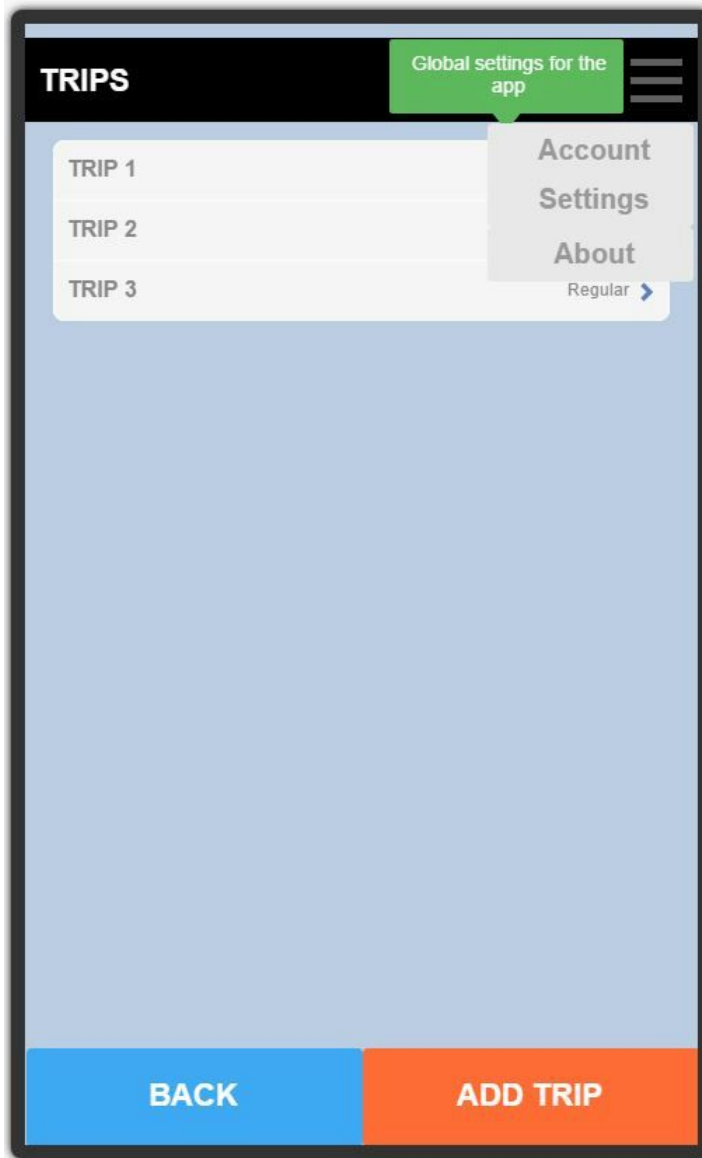
7. **After receiving image from source** : Once you get the image either from camera or gallery, the app shall allow user to crop or rotate the image. For video, the edit option shall allow user to choose the segment of the video from the source. The app also allows to add tag to the image or video some title and geo-tag of the image. If image was added from gallery, the geo-tag shall be added manually.



8. **Selection of final log entry:** If you are satisfied with the image/video you shall press the use button and new log entry shall be added to the app.



9. **Global and Account setting:** The app shall also provide the global setting for app and if the user is registered then Account setting too.



Flow :

The basic flow of the application UI should look somewhat like the image below.
Here's the [Link](#) for the flow diagram also available below.

