How to Use this Template

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Submission Instructions

1. After you've completed all the sections, download this document as a PDF [File → Download as PDF]
2. Create a new GitHub repo for the capstone. Name it "**Capstone Project**"
3. Add this document to your repo. Make sure it's named "**Capstone_Stage1.pdf**"

GitHub Username: shweta-techjini

TaggedIt

Description

Problem: Clicking photos and capturing moments is something everyone love to do. And it's nice to review these memories down the lane. However I always feel a need of easier way to search the particular moment from the pool of photo gallery.
Solution: So in order to address this issue, I believe a photo tagging is a good option indeed. Where a user can click a photo and then tag it with their dog or building or place, etc.

Intended User

This is for all smartphone users, who loves to click photos and would like to make search easier.

Features

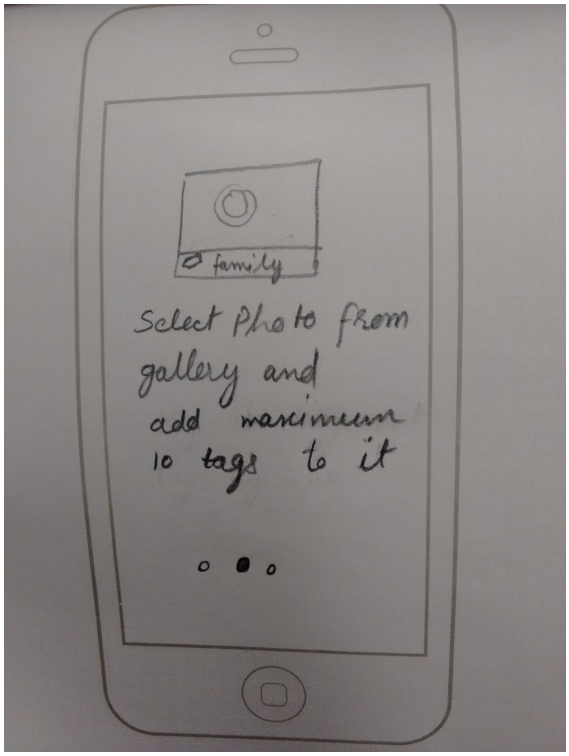
List the main features of your app. For example:

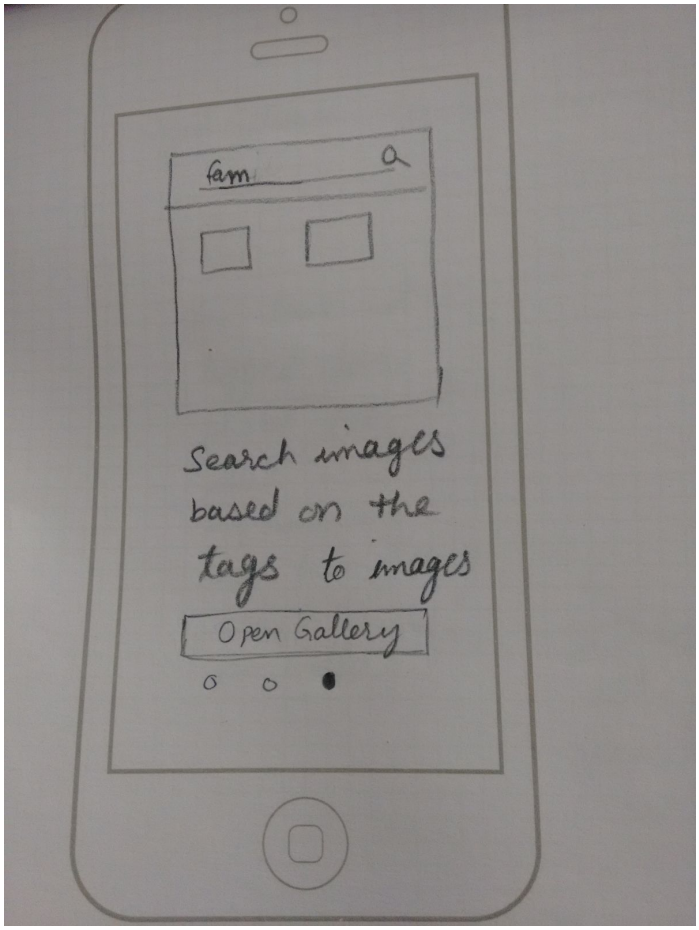
- Tag Set tag for any photot from your gallery
- Search by tags
- Reuse already created tags

User Interface Mocks

These can be created by hand (take a photo of your drawings and insert them in this flow), or using a program like Photoshop or Balsamiq.

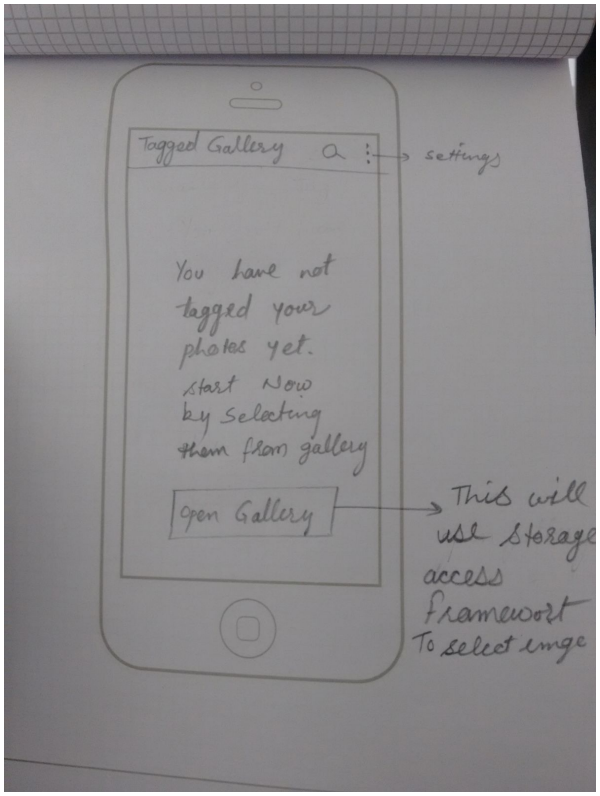
Screen 1 (Intro Screen)





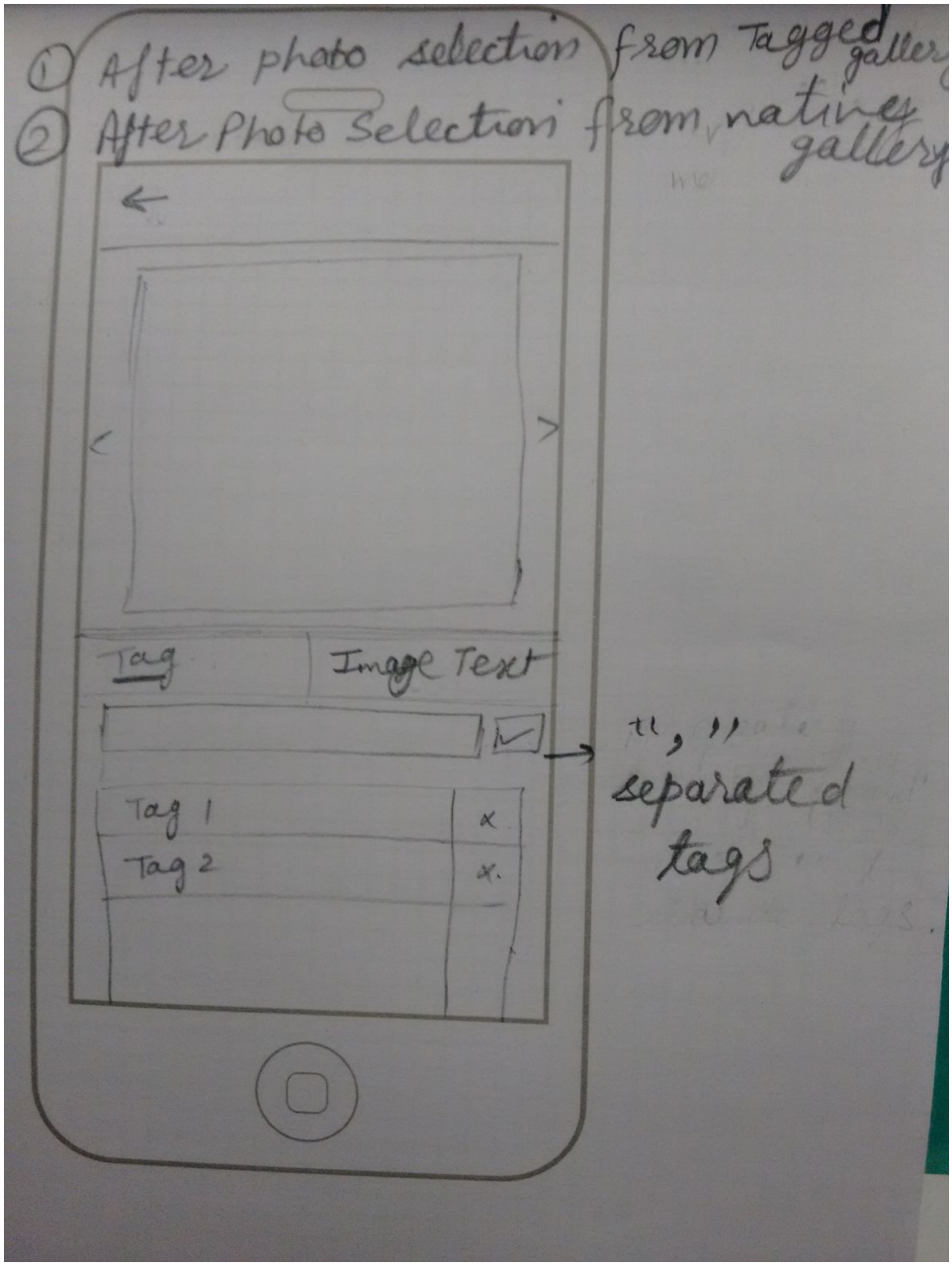
This is the guide for user to use the app. For the mobiles I will use viewpager and for tablets every thing will be on one screen.

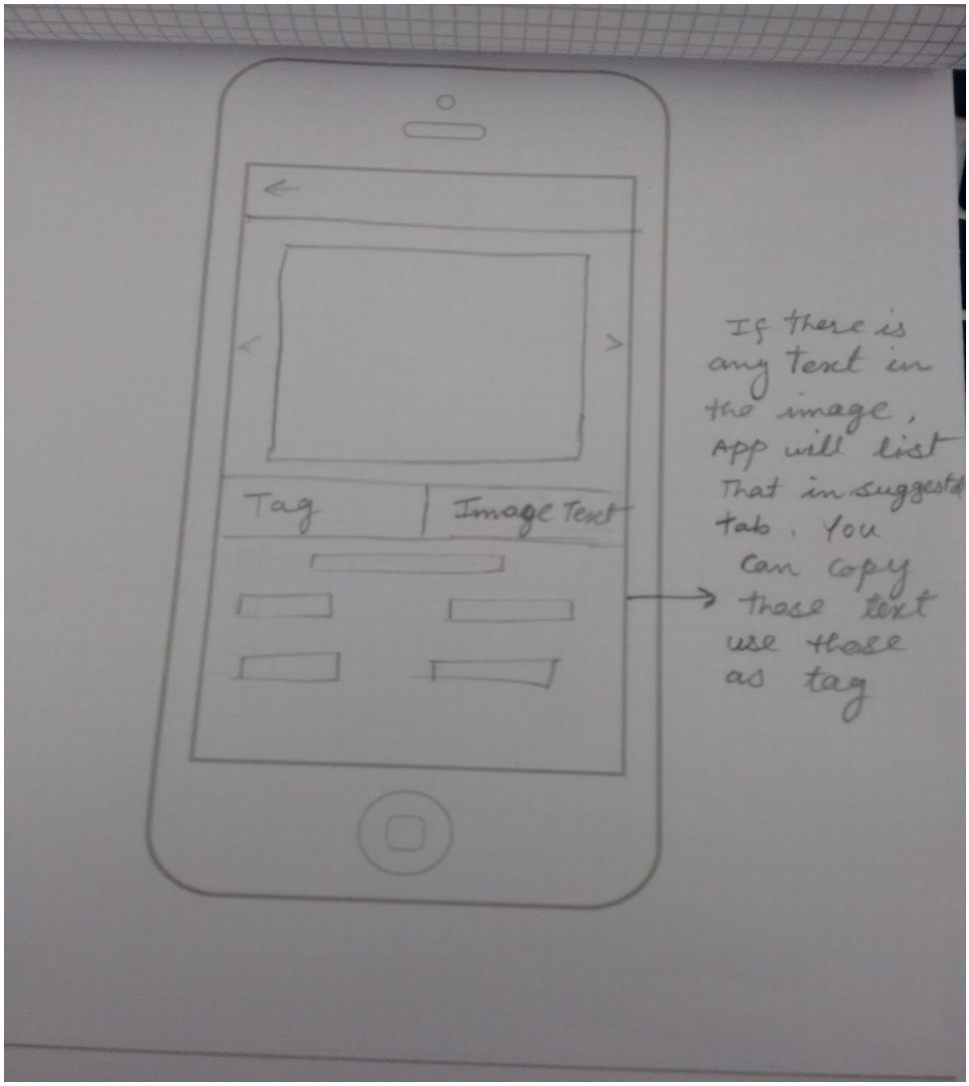
Screen 2 (Home Screen)



Home Screen, It will list all tagged photos with a search option. User can tag photos from gallery.

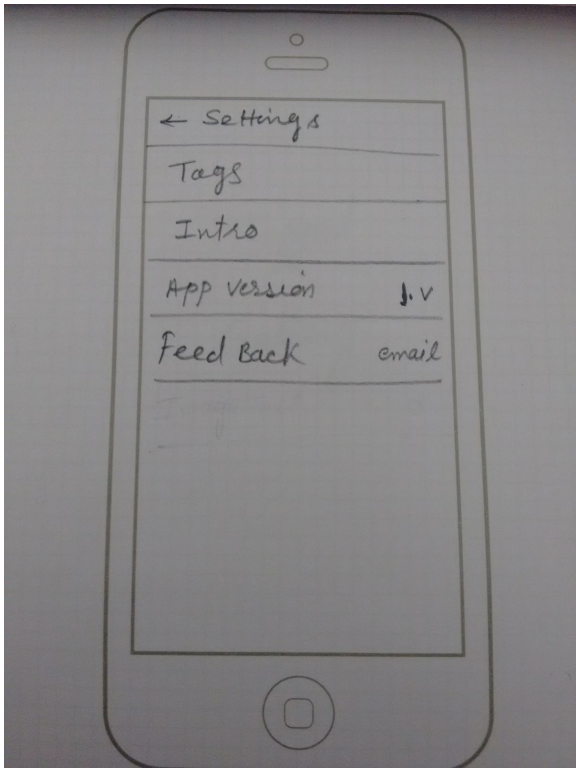
Screen 3 (Tag Photo Screen)





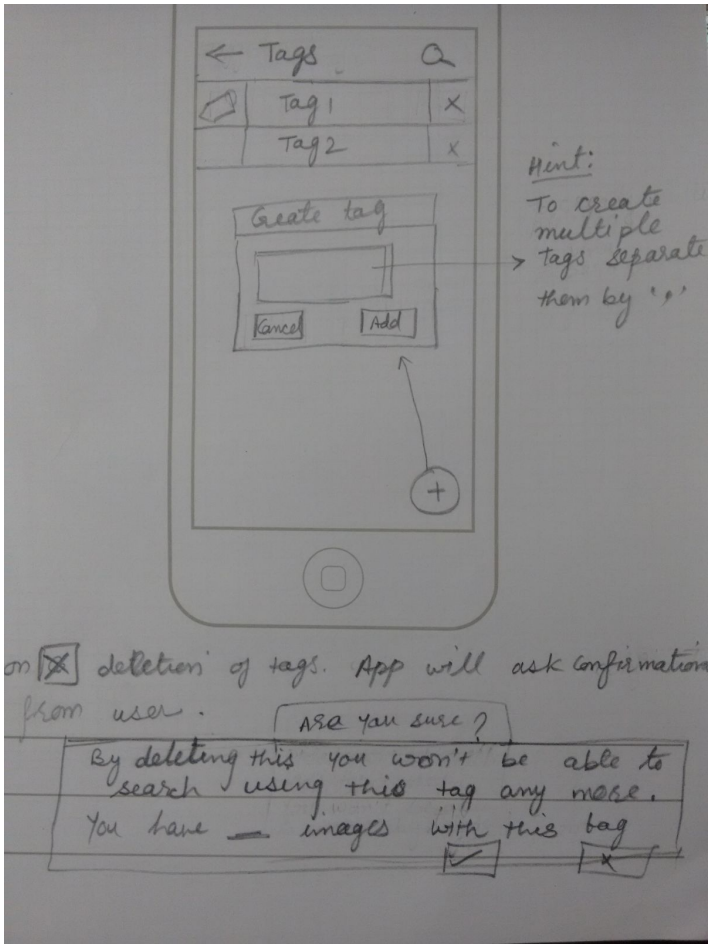
TagPhotoScreen - After selecting a photo from the gallery or from the home activity, this screen will display all tags (if already tagged) and text related to the photo. Here user can update tags.

Screen 4 (Settings Screen)



Settings Screen - User can check intro any time, can see all tags and send feedback via email to developer.

Screen 5 (Tags Screen)



TagsActivity - User can create and delete tags. Search for tags is also available here.

Key Considerations

How will your app handle data persistence?

The app will use database to persist data and will use content provider for this.

Describe any corner cases in the UX.

- HomeActivity - If there is no photo tagged so far then app will display proper message and will have option to tag photos from gallery.

- TagActivity - If there is no tag created by user then app will display proper message and will have option to create tags.
- TagActivity - If user is deleting any tag then app will display message that this tag will not be available for search any more.
- TagPhotoScreen (Image Text) - If there is no text found in the photo, app will display proper message while tagging photos.

Describe any libraries you'll be using and share your reasoning for including them.

- Mobile Vision Library to identify text in photos
- Design support library

Describe how you will implement Google Play Services.

- Google play service for TextRecognizer

Next Steps: Required Tasks

This is the section where you can take the main features of your app (declared above) and decompose them into tangible technical tasks that you can complete incrementally until you have a finished app.

Task 1: Project Setup

- Prepare requirement doc
- Design flow of app
- Setup Library for development
- Design database schema

Task 2: Implement content provider

Task 3: Implement UI Splash and IntroActivity

- Splash Activity - display for 3 sec
- Intro activity UI - It is a static screen with option to open gallery

Task 4: Implement functionality for HomeActivity

- Create Layout search and settings option in toolbar, gridview of photos (if empty then message in center), open gallery FAB
- Open Gallery for photos selection on tap on FAB
- Search tagged photos from database and provide available tags as suggestions while searching, need at least 3 chars
- Open settings activity on tap on settings option

Task 5: Implement functionality for TagPhotoActivity

- Create Layout - image view, tags and Image Text tab
- Add and delete tags to selected photo
- Restriction of 10 tags per photo
- Pre populate the previously created tags while typing
- Identify text in photo and display those under Image text tab
- Copy option for text in photo
- Save tags to database for later usage

Task 6: Implement functionality for SettingsActivity

- Create layout - static list which have 4 items (tags, intro, feedback, app version)
- Give option to check the intro for later usage
- Navigate to all tags
- Feedback via email
- App version

Task 7: Implement functionality for TagsActivity

- Create layout - list of all tags with create and delete option
- Add tag functionality
- Delete tag with proper message to user
- Search tag within list
- Add Tag Dialog - update database
- Delete Tag Dialog - update database

Task 8: Optimize app experience for Tablet

Add as many tasks as you need to complete your app.

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