

Team Name:

STARR WAY

Project Plan
App Name:

GeoGallery



Team Members:

- Francis Starr
- Jordan Way

The Client:

No specific client. The app in this project is aimed at a general audience. The members of STARR WAY are in separate capstone groups anyway. We are targeting users that want to save the GPS coordinates of the photo they take on their smartphones.

Business Purpose:

Consider this scenario. You are a traveller going to interesting places taking photos of your travels using your smartphone. You want to tag every photo of your travels with the exact GPS coordinates of where the photo was taken. This is made easy to do using GeoGallery. With GeoGallery, you can add pins on a google map then also add additional information for each pin such as title, description, date and a photo of the location for that pin. For each pin: description, date and photo are all optional fields while title is required. If you decide that you don't want to keep any specific pin or you want to change information then you can do that too as each pin has the ability to edit and delete.

Project Roles/Responsibilities:

Francis Starr

- code development related to user forms
- code development related to SQLite
- writing of the project proposal
- use case visual mockups

Jordan Way

- code development related to maps
- code development related to shared preferences
- creating and managing the git repo

Features List

- Add a pin to map by typing in the address or manually choosing it on a map or using your current location
- After a pin is added, a user form pops up allowing the user to enter in the title, description, date (defaulted as current date) and photo. Title is required to complete the process. Everything else is optional.
- Edit or delete any pin.
- Data saved in SQLite once the user form is completed so pins still show up even after the user closes the app.
- If a user adds a pin but abandons the “Add” user form then the pin is not saved to SQLite
- The user can select the most recent pin that was either added or edited. This done using SharedPreferences

Event Table:

SPRINT 1

Lead Developer: Jordan Way

Use Case#	Use Case Name	Event	Trigger	Source	Response	Destination
UC0	Open App	Home page of App is the Map Activity.	Starting Point		Any pins (if any) that are saved will appear.	Map
UC11	Pin by Address	Initiate Adding a Pin by typing the address into the address bar.	UC0	Map	User Asked if they want to add pin	Map
UC12	Pin by current Location	Initiate Adding a Pin by using current location	UC0	Map	User Asked if they want to add pin	Map
UC13	Open “Add Pin” User Form	Click the YES button on the question.	UC12 or UC13	Map	Forwarded to the Add Pin User Form Activity	Add Pin

SPRINT 2

Lead Developer: Francis Starr

Use Case#	Use Case Name	Event	Trigger	Source	Response	Destination
UC21	Save Added Pin	The user can now fill in the Add Pin user form and click save when finished	UC13	Add Pin	If title provided then forwarded to Map Activity and new record saved to SQLite Else error message displayed in Toast	Map
UC22	Open Camera	Click on “Take Photo” button	UC13 or UC32	Add Pin or Edit Pin	Forwarded to Camera Activity	Camera
UC23	Take Photo	Photo taken and file path of photo is pasted into the Add Pin User Form (or Edit Pin User Form)	UC22	Camera	Forwarded to Add Pin Activity (or Edit Pin Activity)	Add Pin or Edit Pin

SPRINT 3

Lead Developers: Francis Starr (UC32, UC33, UC34) + Jordan Way (UC31)

Note: Lead developer is to be determined for UC35

Use Case#	Use Case Name	Event	Trigger	Source	Response	Destination
UC31	Click on Existing Pin	Map displays title of pin Pin button pops up	UC0	Map	Edit Pin Button Pops up	Map
UC32	Open "Edit Pin" User Form	Click Edit pin button	UC31	Map	Forwarded to Edit Pin User Form	Edit Pin
UC33	Save Edited Pin	The user can now modify the data of Pin in the "Edit Pin" use form which is defaulted with the current data of the Pin	UC32	Edit Pin	If title provided then forwarded to Map Activity and record updated to SQLite Else error message displayed in Toast	Map
UC34	Delete a Pin	The user can now modify delete the pin. Deleted pins can't be recovered	UC32	Edit Pin	Record deleted from SQLite. Forwarded to Map Activity	Map
UC35	Most recent pin	The User can view that most recent pin that was modified (added pin, deleted pin or edited pin). Click "Most Recent" pin button to start.	Starting Point	Map	Highlights the pin that last edited or added. If this pin was already deleted then displays message stating that most recent pin was deleted	Map

Technical features (select all that apply):

- ☐ Support of multiple screen sizes/densities.
- ☐ Use of non-static Fragments
- ☐ Multi-threading using the AsyncTask and/or Intent Service classes
- ☒ Using local storage capabilities including BOTH SharedPreferences and SQLite databases
- ☐ Using networking with a web service (i.e. Facebook, Twitter, Instagram, etc.)
- ☒ Using Multi-media (Camera, Video, Sound, etc.)
- ☒ Location Based Services and/or other phone sensors
- ☐ Advanced graphics/animations in Android (i.e. a game!)
- ☐ Using the Support Library
- ☐ Using Google Play service