

How to Use this Template

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2. Rename this file: “**Capstone_Stage1**”
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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**”
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GitHub Username: **Your GitHub username here** - <https://github.com/bwong199>

Rabt

It means connect in Arabic per Google Translate

Description

Write a brief summary of what your app does. What problem does your app solve?

Canada is receiving 25,000 Syrian refugees and they get sent all over Canada. Aside from the Syrian refugees who made it to Canada, there are diaspora who are displaced from their country of origin for whatever reason. In their new place, I am sure they want to find people from their home country, similar to their background, who can get them started and assimilated in the new land, be it Canada or somewhere else. This applies to expats, and new immigrants too, who want to meet new people from their home countries.

My app is to use geolocation and chat to connect people of the same background.

Not sure how to write a good description? Search 5-star apps on the Play Store for inspiration.

Intended User

Who is your intended user? (For example, is this an app for dog owners? Families? Students? Travelers?)

Refugees, expats, people who want to find friends from their country.

Features

List the main features of your app. For example:

- Saves information
- Takes pictures
- Other features like that

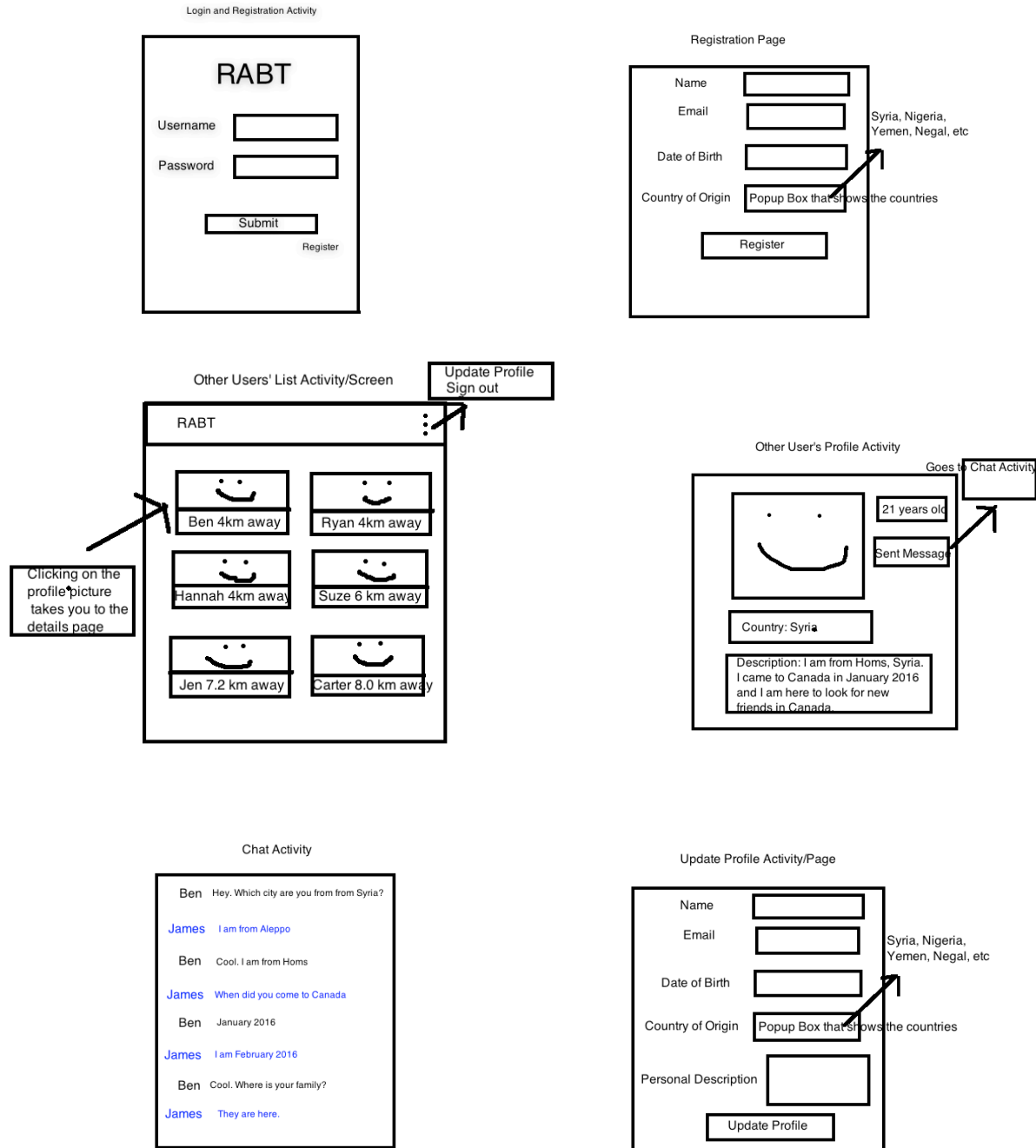
The main features of my app include:

- 1) Login/Registration
- 2) Update Profile Activity
- 3) Lists all the people who are of your origin country in the master view who are within your geolocation.
- 4) Detail view shows the profile/description of that person and a chat button takes you to the chat feature to chat with that person

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



Add as many screens as you need to portray your app's UI flow.

Key Considerations

How will your app handle data persistence?

Describe how your app will handle data. (For example, will you build a Content Provider or connect to an existing one?)

I will use Firebase as my backend database. I took Rob Percival's Udemy Android course and he went over how to build apps using Parse, which unfortunately shut down. But I have a good idea as to how a backend service works. I will use Firebase API for login/registration and their real-time service for the chat function and database storage.

Describe any corner cases in the UX.

For example, how does the user return to a Now Playing screen in a media player if they hit the back button?

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

For example, Picasso or Glide to handle the loading and caching of images.

I will use Picasso for loading profile pictures.

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

Write out the steps you will take to setup and/or configure this project. See previous implementation guides for an example.

You may want to list the subtasks. For example:

- Configure libraries
- Something else

If it helps, imagine you are describing these tasks to a friend who wants to follow along and build this app with you.

- 1) I will sign up for Firebase and learn the features I want for my app – login/registration/authentication; chat; database.

- 2) I will make the login/registration UI page and code the logic. Only successful login will be taken to the “People List” page. Upon successful login, a geolocation listener will listen for the user’s location and save it to firebase so the “People List” will only populate users within the signed-in user’s location.
- 3) I will prepopulate the Firebase DB with users and their location and make a HTTP request to fetch for the list of users filtered by a certain geolocation and populate the “People List” page with user data
- 4) I will make the “Detail User” UI and logic. I will pass the User’s id in a bundle from the “List” page to the “Detail” page so a HTTP request can be made to fetch the user’s info based on the user id.
- 5) I will work on the chat feature UI and logic where the signed-in user can chat with another user on the “People List”
- 6) I will work on the “Update User” UI and codes so users can update their information.
- 7) I will work on the signout feature.
- 8) I will work on error handling

Task 2: Implement UI for Each Activity and Fragment

List the subtasks. For example:

- Build UI for MainActivity
- Build UI for something else

Task 3: Your Next Task

Describe the next task. For example, “Implement Google Play Services,” or “Handle Error Cases,” or “Create Build Variant.”

Describe the next task. List the subtasks. For example:

- Create layout
- Something else

Task 4: Your Next Task

Describe the next task. List the subtasks. For example:

- Create layout
- Something else

Task 5: Your Next Task

Describe the next task. List the subtasks. For example:

- Create layout
- Something else

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

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