

## ***My preference: sketch 1> sketch 2> sketch 3***

### **Sketch 1: Discover Movie Locations**

#### **Describe the project sketch:**

This app will collect extensive movie and TV show film locations, allowing users to discover and explore famous sites around the world. Every location will be detailed with information such as specific scenes, plots, and appearing time in the videos, even travel tips/tour guides. The users can input or filter a city name, movie title even an actor's name in the search bar, then a location list with images will be displayed on the interactive map, or they can use a map to explore filming spots.

For example, if I am planning to travel to Chicago, I can input 'Chicago' in the search bar, and then the app will show me a long list of memorable moving locations from 'Batman Begins' and 'The Dark Knight', appearing time, scene description even a video clip. Then I can visit the locations, take photos, and relive the iconic movie moments. Let's start a movie trip with this cool app!

- Who would be the users? Are there secondary stakeholders?

The primary users of this app will be movie enthusiasts and travel lovers, for example, myself! The secondary stakeholders would be photographers who are interested in taking wonderful photos of famous filming locations. In addition, I think those travel agencies and tour guides may want to integrate this app's functionality into their services to attract tourists.

- What is the task? What problem would it (help to) solve?

The potential app will help users easily find real-world movie locations of their favorite movies or TV series and they can explore cities by following the footsteps of beloved movie characters. Users can have a deeper connection to the stories and places they love.

- What is the primary interaction? Is there an interaction loop?

Selecting location via the map location text search or film name search. Users can then view all the movies shot in that location or explore the specific scenes filmed there.

- What data would be used (input), how would you get it and how is it processed/analyzed?

The data will come from online <https://movie-locations.com/index.php> and some other resources, including IMBD, and tourism websites. The data could be processed to extract relevant information, such as filming locations, scene details, and travel tips.

- What are the results and how are they presented?

This app will present results using markers on an interactive map or as a list with images of film scenes.

## **Sketch 2: Calorie Calculating and Personalized Diet Plan App**

### **Describe the project sketch:**

This app can help users easily calculate and track their daily calorie intake and provide personalized meal plan recommendations based on their health goals, basic metabolism, dietary preferences, and nutritional goals. They can input their meals and calories manually and then the app will analyze the user's eating habits and design diet plans to lose weight, muscle gain, or weight maintenance.

Take me as an example, I want to lose weight as well as nutrition gain after giving birth to a baby. But I do like eating desserts, so it's quite important for me to control calorie intake while ensuring balanced nutrition. The app can present a clean, simple user interface to satisfy user's requests.

- Who would be the users? Are there secondary stakeholders?

The primary users of this app would be individuals who want to lose weight, muscle gain, or other health goals by managing their diet. Secondary stakeholders are nutritionists and dietitians who have to track clients' calorie intake.

- What is the task? What problem would it (help to) solve?

This app would solve the problem of looking for food's calories and help people calculate, track, and control calorie intake to meet specific health goals.

- What is the primary interaction? Is there an interaction loop?

Logging meals, and receiving personalized calorie intake plan. The interaction loop would be an updated meal plan based on the user's feedback and progress.

- What data would be used (input), how would you get it and how is it processed/analyzed?

1. User's personal information such as age, gender, activity level, dietary preferences
2. Food items and nutritional information from USDA, or other websites like <https://www.calories.info/>
3. Recipes, recommended food

- What are the results and how are they presented?

The app will present results through daily calorie intake summaries, progress feedback, and customized meal plans. In addition, the app can send motivational sentences to help users stick to their plans.

### **Sketch 3: Crime Alert and Nearby Crime Information App**

#### **Describe the project sketch:**

This app aims to inform users in real-time about crime activities around them via push notifications, or a search feature for nearby crime reports. Users can enhance their personal safety by receiving the latest information such as thefts, assaults, and other criminal activities within their chosen radius.

For example, if someone travels in an unfamiliar area, of course, the user wants to know if he/she is in a potentially dangerous region. So the user can open the app and check recent crime reports in the community.

- Who would be the users? Are there secondary stakeholders?

Everyone who is concerned about his/her personal safety. Secondary stakeholders could be real estate agencies because they have to ensure their residents' safety, it's a good app for them to notify criminal events to residents.

- What is the task? What problem would it (help to) solve?

This app would solve the problem of unreal-time crime information. In this way, users are able to stay aware of potential threats and increase safety.

- What is the primary interaction? Is there an interaction loop?

Users search criminal activities on the map or input the location and the radius to read more detailed reports. Besides, they can adjust notification settings of specific locations or types of crime.

- What data would be used (input), how would you get it and how is it processed/analyzed?

The app would use crime data sourced from public safety databases, local police departments, and government agencies that provide real-time or regularly updated crime reports.

- What are the results and how are they presented?

The app will show results through push notifications, crime makers on the map, and detailed crime reports.