

How to Use this Template

1. Create a new document, and copy and paste the text from this template into your new document [Select All → Copy → Paste into new document]
2. Name your document file: “**Capstone_Stage1**”
3. Replace the text in green

[Description](#)

[Intended User](#)

[Features](#)

[User Interface Mocks](#)

[Screen 1](#)

[Screen 2](#)

[Key Considerations](#)

[How will your app handle data persistence?](#)

[Describe any corner cases in the UX.](#)

[Describe any libraries you'll be using and share your reasoning for including them.](#)

[Describe how you will implement Google Play Services.](#)

[Next Steps: Required Tasks](#)

[Task 1: Project Setup](#)

[Task 2: Implement UI for Each Activity and Fragment](#)

[Task 3: Your Next Task](#)

[Task 4: Your Next Task](#)

[Task 5: Your Next Task](#)

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Detect Microdot

Description

We can offer information of microdot to users.

These days, smog is very serious invironment's problems in korea.

So I want to let our users know about smog's status each area.

You can easily recognize status of smog by color in our application.

Intended User

All people who interest of health, especially people who live in Korea, China where defect from microdot.

And users who are pregnant or are having kids, they are interest of their kids health.

Features

List the main features of your app. For example:

- Select city where checking smogs
- Save previous selected city.
- Select city in google map api.
- Widget of current city

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 Google Drawings, www.ninjamock.com, Paper by 53, Photoshop or Balsamiq.

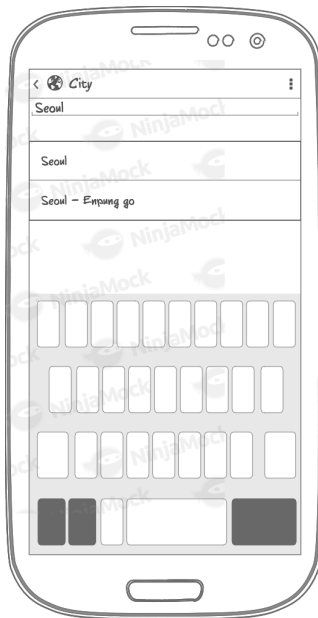
Screen 1



This screen offer information of microdot about current city.

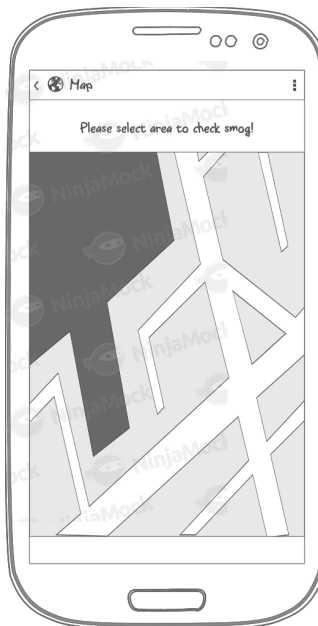
Next page “Seoul”, “New York” are we can set clicked actionBar button.

Screen 2



This screen can search city to set main pages.
We already have many city that we can offer microdot's status.

Screen 3



This screen can select location to set main pages.
Using Google Map API we can get location.

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

Key Considerations

How will your app handle data persistence?

We can handle data persistence like city list and already setting city.

For city list, I'm going to use Room library in jetpack.

And for city where already set by users, I'm going to use sharedpreference.

Describe any edge or corner cases in the UX.

Current area have to set automatically, and users can add areas what they want in city search page or map page.

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

I plan to use Room library in Android jetpack to store about information of cities.

Describe how you will implement Google Play Services or other external services.

I'm going to use Google Map library to know about city's location.

Next Steps: Required Tasks

This is the section where you can take the main features of your app (declared above) and break them down into tangible technical tasks that you can complete one at a time 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.

- Google Map library
- Android Room library

Task 2: Implement UI for Each Activity and Fragment

List the subtasks. For example:

- Build UI for MainActivity
- Build UI for ViewPager in MainActivity
- Build UI for MicrodotFragment that can offer microdot's status
- Build UI for CitySearchActivity.
- Build UI for MapSearchActivity.

Task 3: Create Layout and Using GoggleMap API

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 for MainActivity, MicrodotFragment, CitySearchActivity, MapSearchActivity.
- Implement Google Play Services for using GoggleMap API.

Task 4: Handle user's persistence

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

- Implement Room library and create city table.
- When user select city, put city data to room (database).

Task 5: Create Test

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

- Implement Espresso library.
- Implement UITest about user scenario.

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

Submission Instructions

- After you've completed all the sections, download this document as a PDF [File → Download as PDF]
 - Make sure the PDF is named "**Capstone_Stage1.pdf**"
- Submit the PDF as a zip or in a GitHub project repo using the project submission portal

If using GitHub:

- Create a new GitHub repo for the capstone. Name it "**Capstone Project**"
- Add this document to your repo. Make sure it's named "**Capstone_Stage1.pdf**"