



LKS Provinsi DKI Jakarta 2025 – IT Software Solutions for Business (Mobile)

Introduction

EsemkaTourism is a travel application designed for explorers and culture enthusiasts. With a vast collection of tourist attractions, events, and unique destinations, this app takes users on an exciting journey to discover the beauty of various places. From breathtaking natural landscapes to vibrant cultural festivals, is the perfect guide for travelers seeking unforgettable experiences.

You as a developer are asked to develop an Android mobile application. then **EsemkaTourism** already has a web api. So, you just use your Android application connected to the web api.

Content

1. EsemkaTourism.pdf
2. EsemkaTourism.API
3. Assets

Instructions for Competitors

1. Run Web API

Run the API that has been given to you in the “Web API” folder. This is the data source that you will use in the application creation process. then double click on the **EsemkaTourism.exe** file. Then on the Mobile you can use <http://10.0.2.2:5000> for the url localhost and <http://10.0.2.2:5000/images/> for the image url.

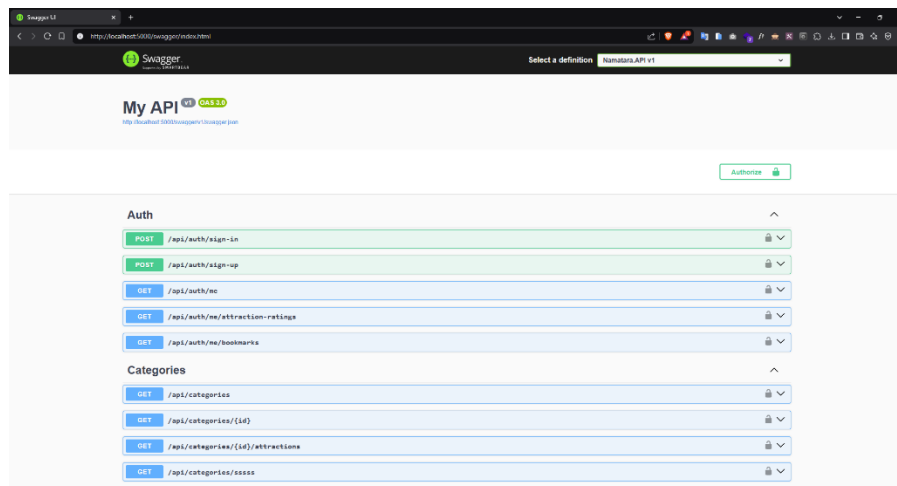


Figure 1. EsemkaTourism Web API Documentation

Responsibilities

Description	Tasks
Project criteria	<ul style="list-style-type: none"> ✓ The project name must be in format “Mobile_[XX]” where XX is your PC number. ✓ Time management is a crucial thing for this project. So, manage the given time wisely and submit all your works on time.
Application User Interface	<ul style="list-style-type: none"> ✓ You are allowed to change some components as long as it doesn’t interfere the business logic and flow. ✓ There are no bonus marks for design (features > design). ✓ Provides scrollbar to user when the contents shown doesn’t conveniently fit to the application ✓ You must follow all existing components as designed and without missing a single thing, whether it's Title, labels, buttons or images.
Validation and error messages	<ul style="list-style-type: none"> ✓ The application must runs well without any crashes. Display useful error message to the users when needed. ✓ Validation for every input process is a must. ✓ Analyze the required validation that is needed in the application. Especially the validations that are not explicitly stated in this project description. This is one of the marking criteria for your analysis result. ✓ Specific validation will be included in the project description.

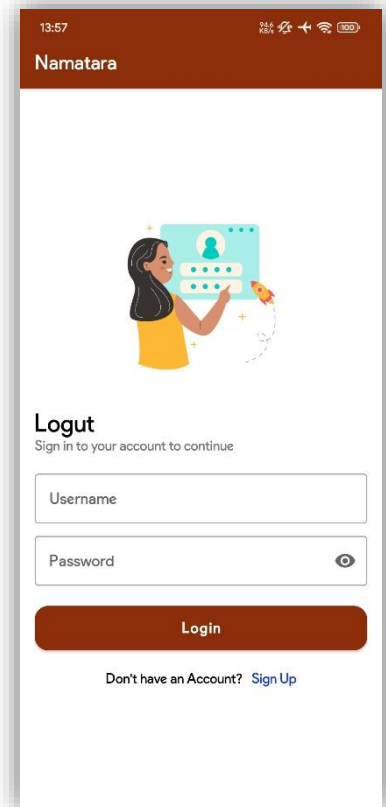
1. Login Screen

The screen will be shown at first when the user opens the app. The user must fill out the Username and Password to login the applications.

When the user taps the **Login Button**:

- Ensure the Username and Password are filled out.
- The application must be validated based on the Backend API.
- Give a proper message if the login process fails. If the Login is successful, it redirects the user to **3. Main Screen**.

When the user taps the Sign-Up label, the user will be redirected to the **2. Sign-Up Screen**.



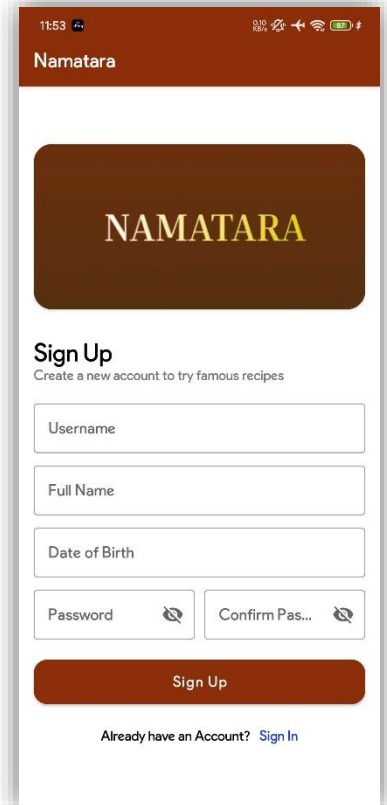
2. Sign Up Screen

This screen will be used by the user to create a new account.

When the user taps the **Sign-Up Button**:

- Ensure that all fields are filled out.
- Password and Confirm password must be the same.
- The application must validate based on Backend API.
- Give a proper message if the sign-up process fails. If the Sign-Up is successful, it redirects the user to **1. Login Screen**.

When the user taps the Sign-In label, the user will be redirected to the **Sign-In Screen**.

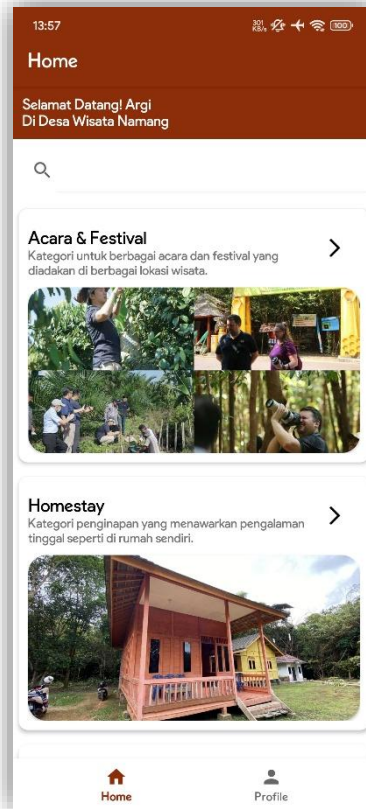


The image shows a mobile application interface for a sign-up screen. At the top, there is a dark brown header with the word "Namatara" in white. Below the header is a large dark brown rectangle with the word "NAMATARA" in yellow. The main section is titled "Sign Up" in bold, followed by the subtitle "Create a new account to try famous recipes". There are four input fields: "Username", "Full Name", "Date of Birth", and "Password". The "Password" field has a toggle icon for visibility. To the right of the "Password" field is a "Confirm Pas..." field, also with a toggle icon. Below these fields is a large dark brown button labeled "Sign Up". At the bottom, there is a link that says "Already have an Account? Sign In".

3. Main Screen

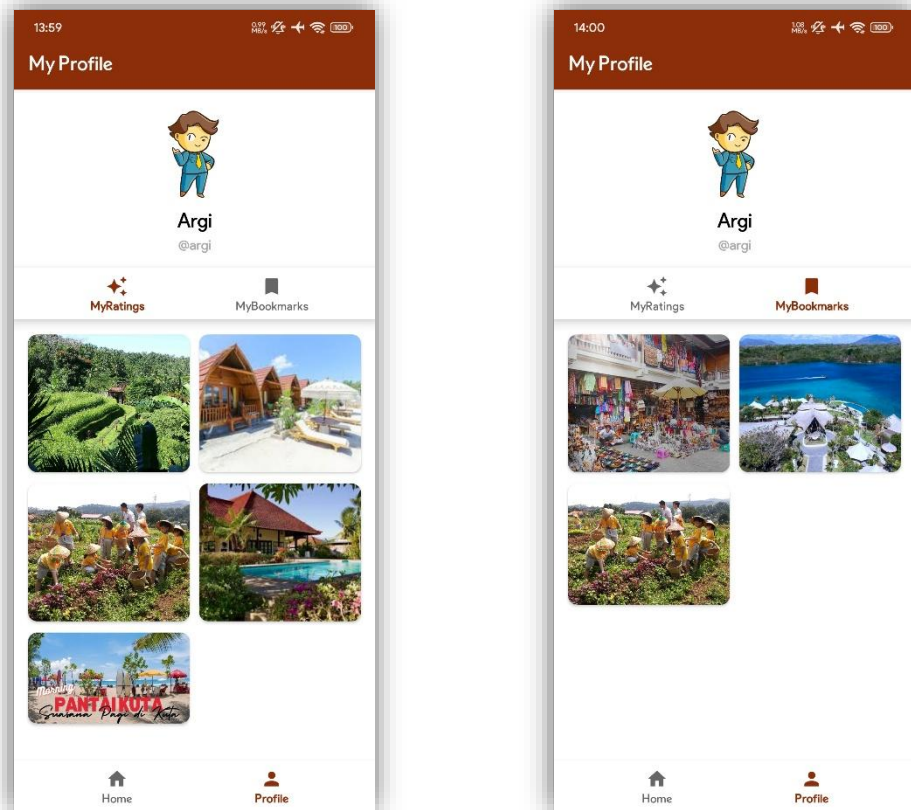
On the Main Screen, there is a BottomNavigationView. When the user presses the Navigation Button, the screen will change according to the Navigation that is selected.

1. Navigation Home Screen



On the Home Screen, there is a bottom navigation view and a list of tourism categories. The category layout must be two columns and can be scrolled. When the user taps the category, the application will be redirected to the **4. Tourism Screen**.

2. Navigation My Profile Screen



On the navigation My Profile screen, it will show the user profile, full name, and list of ratings and bookmarks. The image on the left shows that the user is already rated the places and the right image shows that the user is already bookmarked. The layout must be two columns and can be scrolled. When the user taps the images, the application will be redirected to the **5. Tourism Detail Screen**.

4. Tourism Screen



On the Tourism Screen, it will show a search box and a list of recipes based on the selected category. On the list, there is a image, title, icon and description. The user can search for recipes by using the title name as a keyword. When the user taps the data, the application will be redirected to the **Recipe Detail Screen**.

5. Tourism Detail Screen



On this screen, there are image, title, and other general information. There are several conditions to which you need to pay attention:

- The rating bar and bookmark icon is load and changed by conditions.

~ Good Luck ~