Sprint 01. Applications for mobile devices
Course: 105025-2425
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SPRINT-01. Travel Planner Scaffolding

Delivery: 02/03/2025 23.55

Abstract

The first milestone in Mobile Application Development is completing the first sprint (**Sprint I**) by building the initial structure of the **Travel Planner** app.

During these initial weeks, students will create the skeleton of their project with core elements and essential features. Additionally, they will incorporate good **DevOps practices** into their implementation.

Objectives

1. Set up an **Android Studio project** for the Travel Planner.
2. Create and initialize a **Git and GitHub repository**.
3. Design and implement the **core elements** of the travel management system.
4. Document the project using **Markdown**.
5. Implement an initial **customization** of the app.
6. Create the **first release** using GitHub Actions.

Tasks

T1. Project Setup (2 Points)

- **T1.1** Define the **Android version** to ensure compatibility with most devices.
- **T1.2** Select and configure the Kotlin version.
- **T1.3** Initialize the project using **Android Studio**.
- **T1.4** Create a **README.md** file including the project description and team information.
- **T1.5** Add a **documentation folder**.
- **T1.6** Include a **design.md** file explaining architectural choices.

T2. Version Control and DevOps (2 Points)

- **T2.1** Create a **GitHub organization** for the project.
- **T2.2** Initialize a **Git repository (local)**.

- **T2.3** Add a **LICENSE** file.
- **T2.4** Include a **CONTRIBUTING.md** file outlining the team's branching strategy.
- **T2.5** Set up required **remote and local branches**.
- **T2.6** Push the initial code to GitHub.
- **T2.7** Create the **first release** using GitHub Actions.

T3. Core Implementation (4 Points)

- **T3.1** Develop the **core screen layouts** (e.g., Home with Menu and Navigation, Trip, Itinerary, User Preference).
- **T3.2** Implement **core classes and its functions**, annotating pending logic with @TODO.
- **T3.3** Document the **data model** in design.md.
    - TIP: use Mermaid to generate data models or app.diagrams.net.

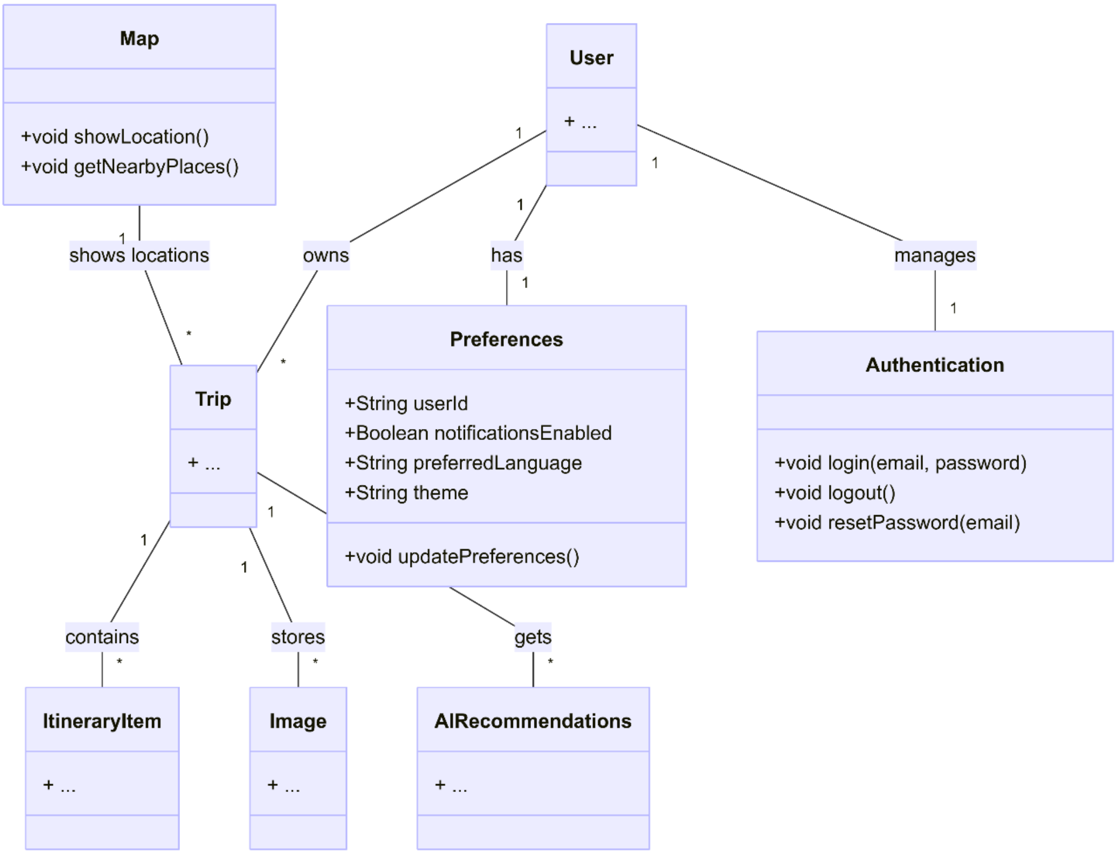

Figure 1 - Example of an Incomplete Travel Planner Data Model

T4. Customization (2 Points)

- **T4.1** Create a **Product Name**.
- **T4.2** Generate a logo for you app using AI.
- **T4.3** Create a **Splash Screen** with the app logo.
- **T4.4** Implement an **About Page** (team info, version, summary).
- **T4.5** Add a **Terms & Conditions** screen.
- **T4.6** Ensure the app **supports multiple languages**.

Delivery

Students must submit the **GitHub organization link** containing a repository with all tasks completed. The **Sprint.md** document must list task assignments for each team member, ensuring everyone contributes.

Evaluation Criteria

Metric	**Unsatisfactory (factor: 0.4)**	**Acceptable (0.6)**	**Very Good (1)**	**Excellent (1.1)**
Clarity	Code lacks documentation and is unreadable.	Some documentation, but style is poor.	Well-documented, but minor readability issues.	Fully documented, well-structured, and easy to read.
Modularity	Poorly structured functions with little logic.	Divided into appropriate units but lacks cohesion.	Mostly well-structured with minimal redundancy.	Highly modular, reusable, and efficient code.
Completeness	Major functionality missing or poorly handled.	Some case handling but lacks robustness.	Mostly complete, minor cases may be missing.	Fully functional with all cases handled properly.