

**NOVA**

**IMS**

Information  
Management  
School

Mobile Applications

# Project

## My Travel

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# Introduction

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Since tourism is one of the main sources of income for our country, and more and more tourists come to it, we decided to create an app in which you can make a tourist guide with some points of interest.

With My Travel this will be possible. Just log into the app and see the points of interest you would like to visit, you can create personalized trips to desired destinations and create new points of interest.

Just like in a social network you can optionally give feedback through likes and comments.

# Architecture

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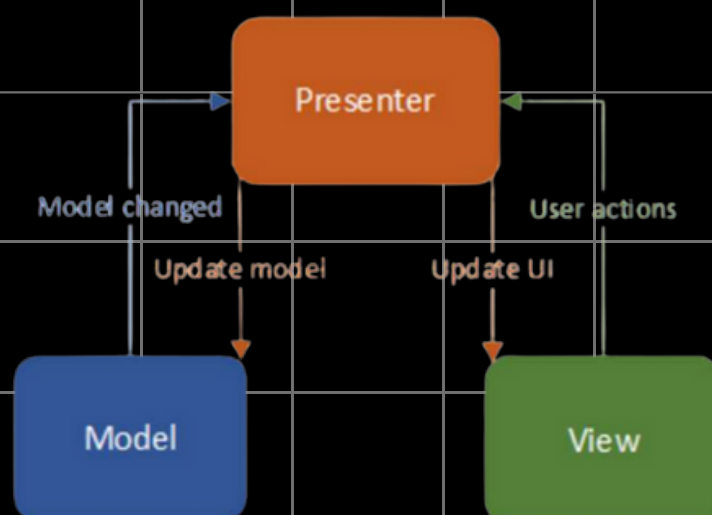
**This architecture allows to organize the code in a way that the different concerns are treated separately.**

**Model** - This layer oversees data storage, domain logic (real-world business rules), as well as communication with the database and network layers.

**View** - It allows to visualize data and keep track of the user's action in order to alert the Presenter.

**Presenter** - Obtain data from the model and use UI logic to determine what should be displayed. It keeps track of the View's status and reacts to the user's input notifications from the View.

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# Mockups

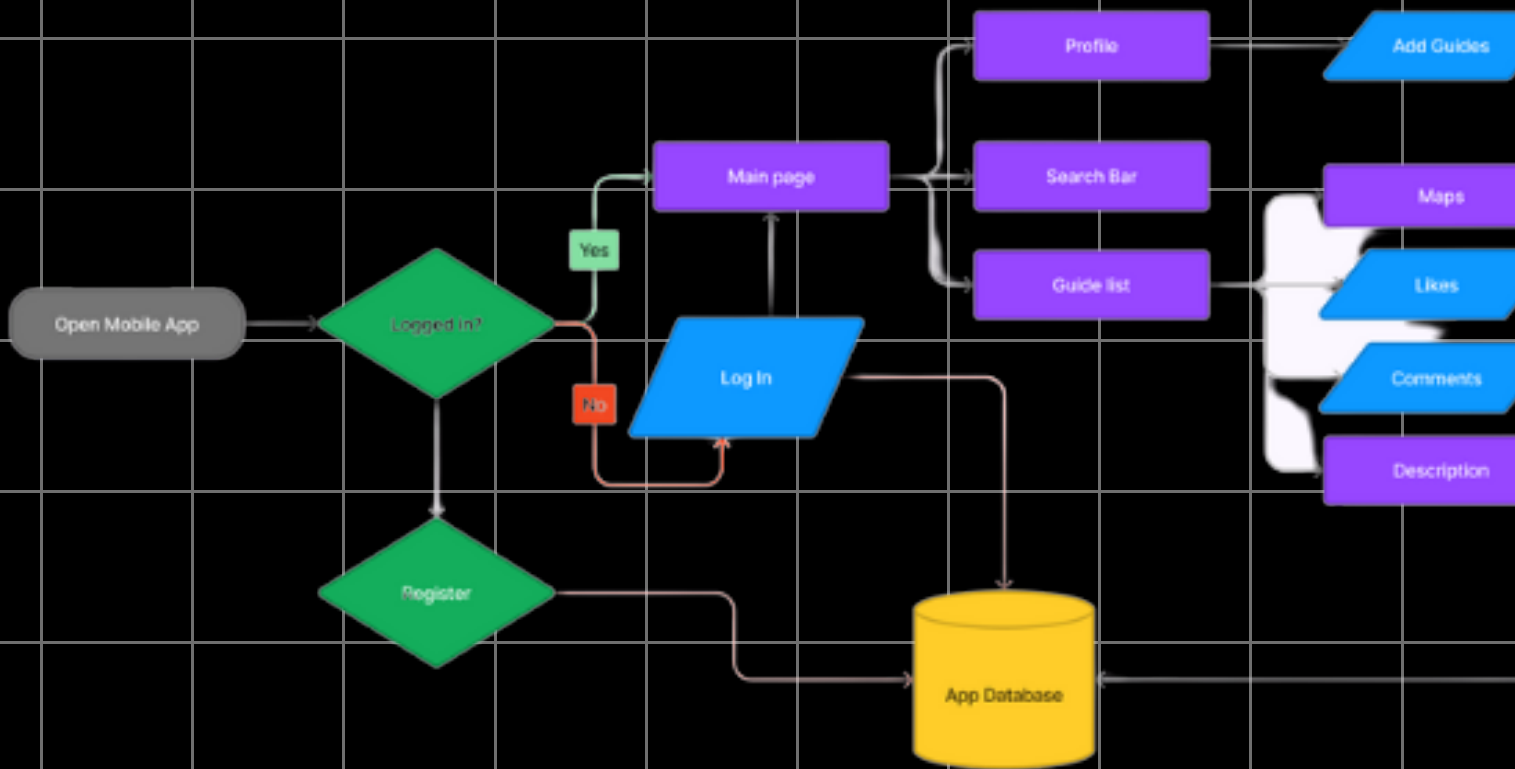
05

Below we can see a couple of screenshots of the application

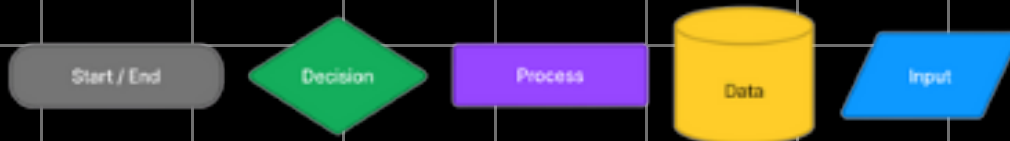


# Storyboard

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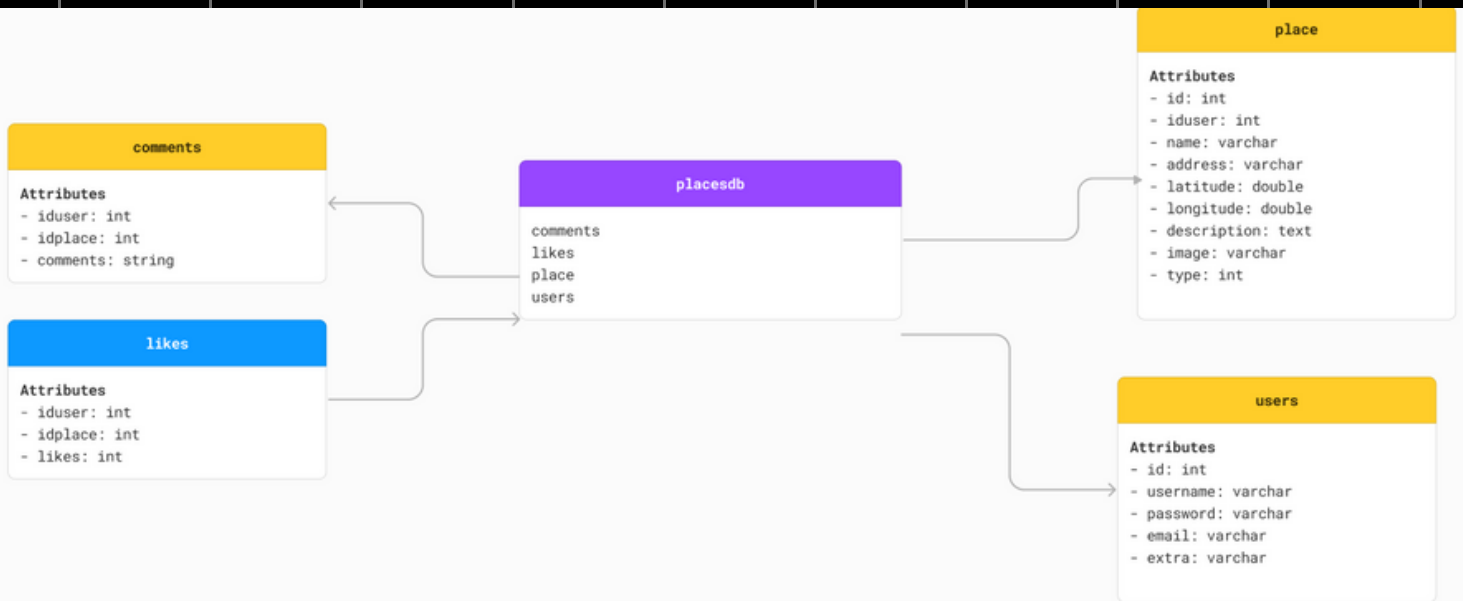


## Legend



# Database Diagram

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# Functionalities

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## Implemented:

### **Upload tourist guides and view (with title, description, coordinates)**

It is possible to visualize and create tour guides with points of interest chosen by the user, and also see their respective coordinates and a short description of them, as well as edit existing ones and delete, but only by the user who made them.

**Display touristic guide in detail** – It is possible to organize some of your guide's points of interest

**Display touristic guide in a map** – It is possible to see on the map the respective points of interest that the user chooses

**Search** – It is possible to search for points of interest through a search bar implemented in our application

**Vote** – It is possible to like, vote, on the points of interest

**Comment the guides**– It is possible to comment on points of interest by writing what the user is thinking

**Multiuser** – It is possible for more than one user to log into our application

## Not Implemented:

Guides have to be approved by an administrator/superuser.

Optional: list other users and see their guides, and follow them

Optional: display coordinates in a map



# Technologies used

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**Android studio** - On this Google platform, we created the mobile application. Along with the IntelliJ code editor and its cutting-edge development tools, Android Studio offers additional features that will increase your productivity when creating Android applications. Additionally, we tested the application's I/O using the built-in emulator.

**Kotlin** - Is a modern and versatile programming language that was designed to be interoperable with Java and offer a more concise and expressive syntax. It is used in Android application development and allows you to write code more efficiently by supporting extension functions and a more concise syntax, resulting in cleaner and less error-prone code.

**Java** - The programming language Java was developed especially for the Internet's distributed environment. Although it is simpler to use and requires object-oriented programming, it was designed to have the "look and feel" of the C++ programming language.

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# Technologies used

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**Php** - PHP is a widely used programming language for web development. With its ability to create dynamic websites, database integration, ease of learning, and wide availability of frameworks and libraries, PHP is a popular choice for building interactive and functional web applications, thus enabling the generation of customized content with database and user interactions.

**Xml** - The XML standard is a flexible method for creating information formats and electronically transferring structured data over private and public networks.

**Visual studio** - Visual Studio is a powerful and comprehensive integrated development environment (IDE). It offers a variety of features and tools to facilitate application development in various programming languages, including C#, C++, Python, Java and many others. Provides an intuitive and user-friendly interface that helps developers write and test code efficiently

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# Problems Encountered

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## Code

The biggest difficulties we had in solving the project were the lack of theoretical knowledge to solve the project.

## Android Studio

Another difficulty was not being able to run the application across multiple devices, only one computer could be doing the project.

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# Conclusion

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With this project, we believe that our application will be useful to a variety of users.

The application will have the purpose of creating a tourist guide with several points of interest.

Finally, we think that this project has strengthened our ability to design software and that we now have a thorough understanding of the procedures and logic required in creating a mobile application.