BSD

TripList – Kotlin App

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Computer Science department, 3rd year, Semester B

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Our Team

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Project Summary

Our project is an android application that allows its users to manage their trip list in an efficient and convenient way

Users can add, edit and delete trips and even use artificial intelligence to identify the objects in the photos they uploaded

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Project Goals

The application is designed to help users efficiently manage and track their trips. Users can easily save and organize trip details such as location, photos, and descriptions, and conveniently view and access all these details

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Target Audience

ADVENTURES

The target audience of our app is anyone who loves traveling and wants to organize their travel list in a convenient way

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Fragments

01

AllItemsFragment

Here the user can see a list of all his trips

02

AddItemFragment

Here the user can add new trip to the list

03

EditTripFragment

Here the user can edit a specific trip

04

DetailItemFragment

Here the user can see all the trips details (title, description, location, image)

05

ImageLabelingFragment

Here image labeling is performed on the image the user entered

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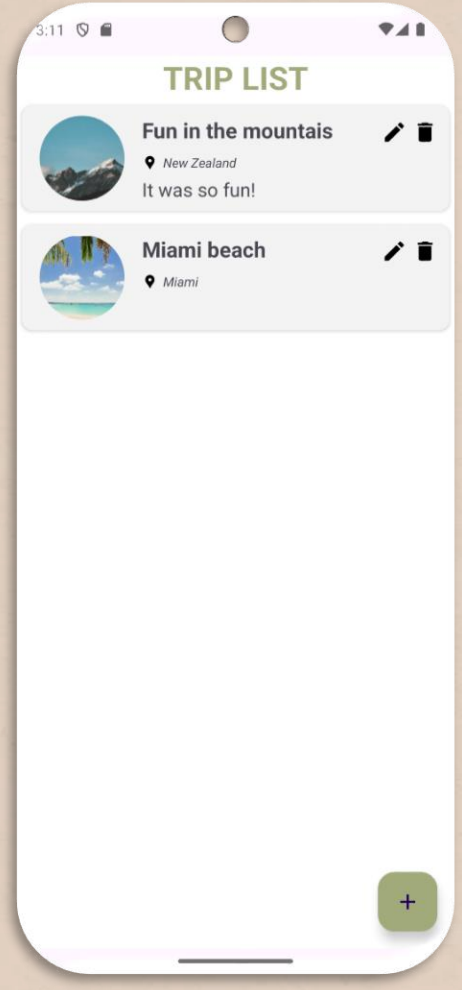
AllItemsFragment

01 The user can see all his trips

02 **Add** By clicking the plus button, the user will be taken to a screen where he can add a new trip to the list

03 **Edit** By clicking the edit button found on each trip, the user will be taken to a screen where he can edit all the details of the trip he has chosen

04 **Delete** By clicking the delete button found on each trip, a pop-up will be displayed to confirm deletion, if the user approves - the trip will be deleted from the list



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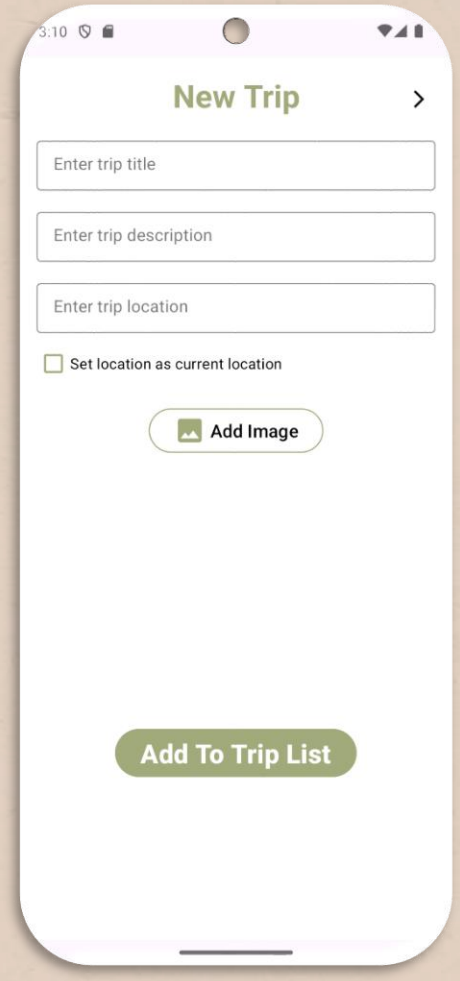
AddItemFragment

01 The user can set a title and description

02 The user can type the trip location or decide to set it to their current location

03 The user can add a photo from the gallery or from the camera

04 The user can save the trip or go back without saving
(a pop-up window will appear to confirm the exit without saving)



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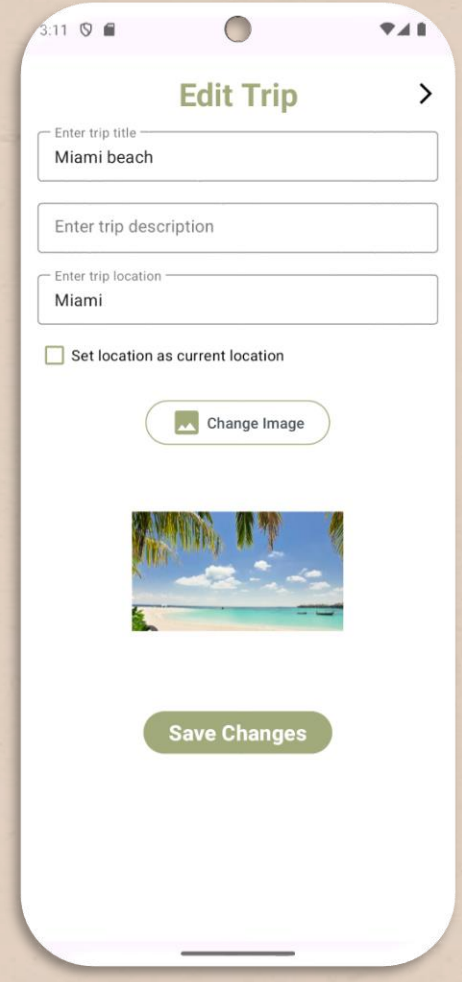
EditTripFragment

01 The user can see all the details he entered about the trip, with the ability to edit and change each of them

02 The user can set the location to his current location

03 The user can save the changes or go back without saving (a pop-up window will appear to confirm the exit without saving)



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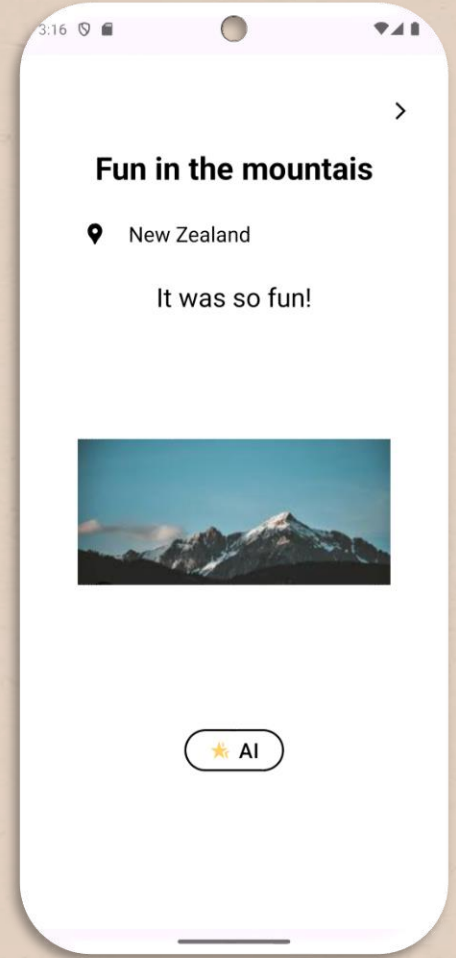
DetailItemFragment

01 The user can see all the details about the trip (By clicking on it)

02 AI button — Clicking this button takes the user to a screen where he sees the image he entered, and image labeling is performed on it



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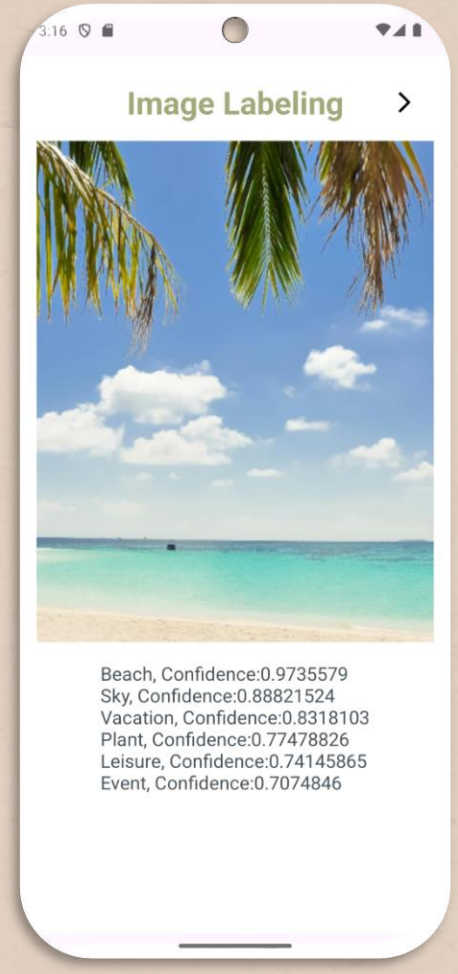
ImageLabelingFragment

01 Image labeling is performed on the image that the user entered

* **Image labeling** - is the process of identifying and marking various details in an image.

* The **confidence** is the probability that indeed this label is found in the image



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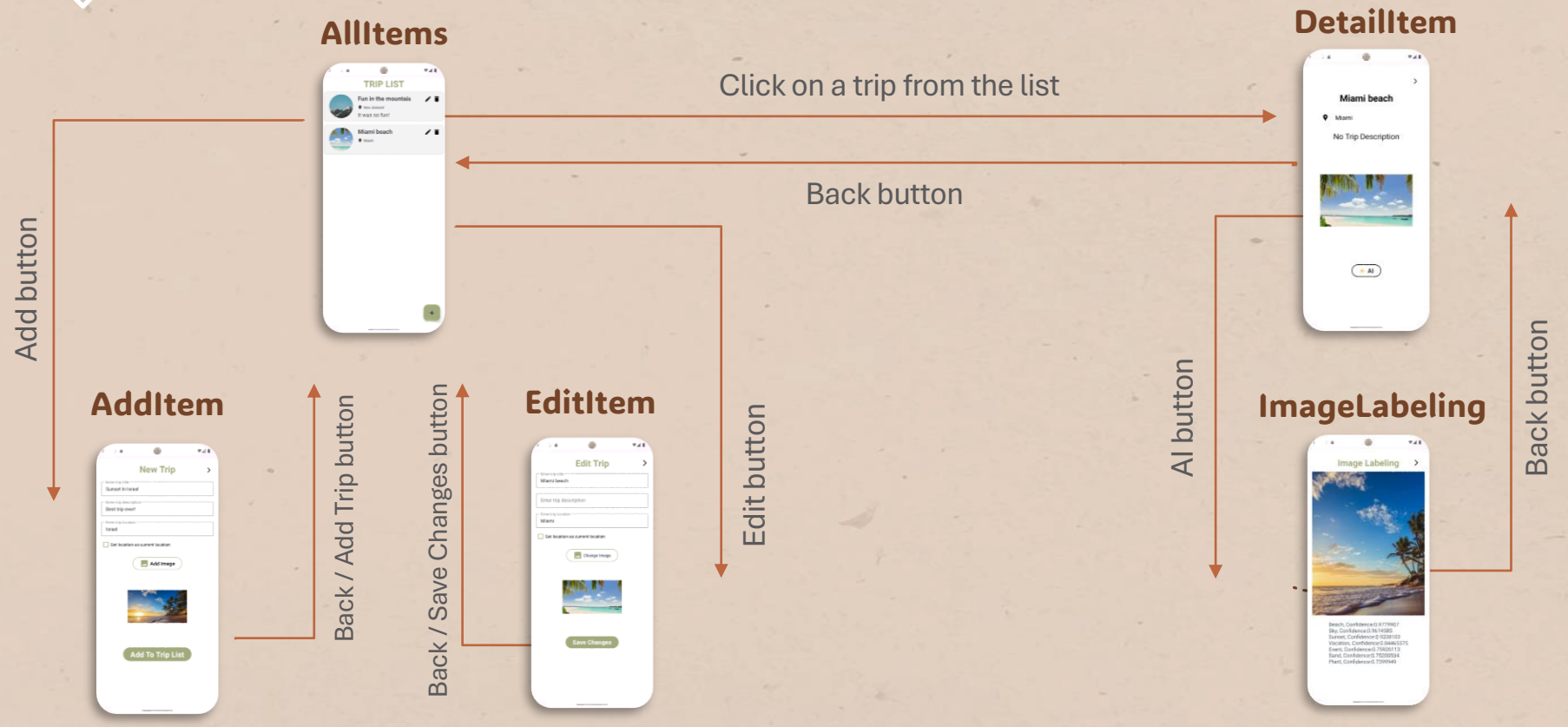
Flow Chart



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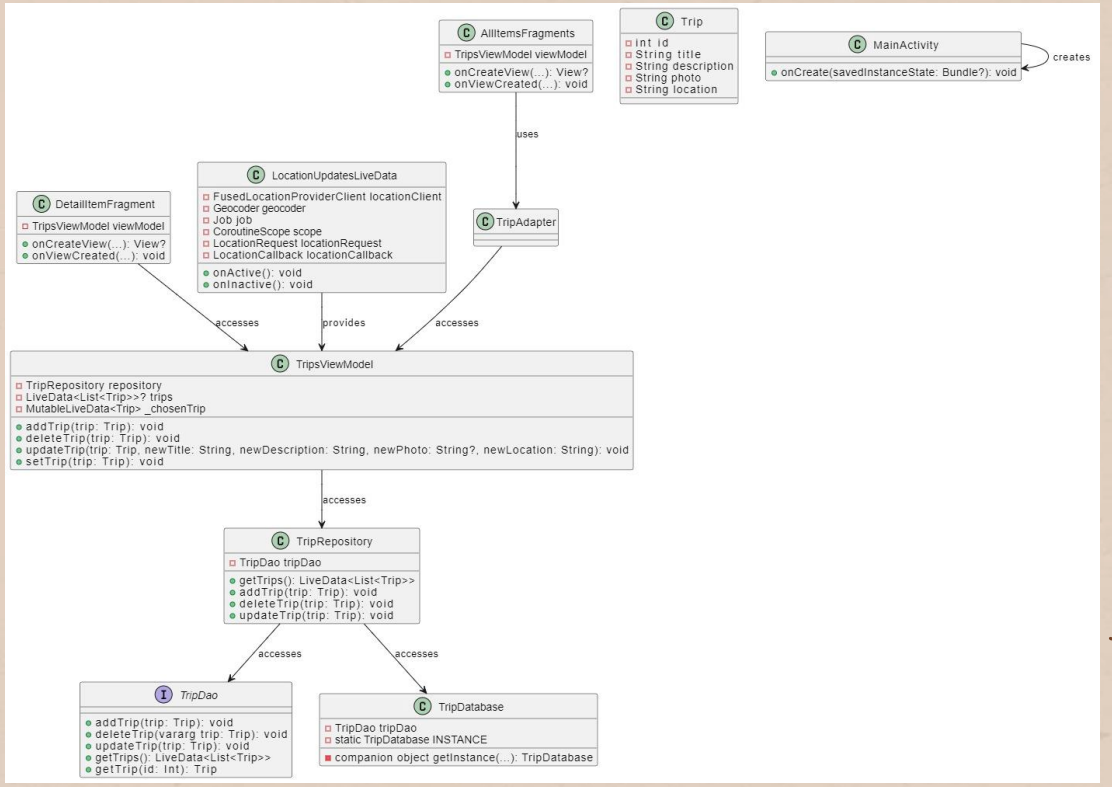
UML



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Libraries

01 **Room** - A directory saving data in a local database allows saving and retrieval of data in a convenient and efficient manner

02 **LiveData -** Is an observable data holder class that is lifecycle-aware, updating only active lifecycle observers. This helps prevent memory leaks and ensures efficient UI updates

03 **Coroutines** - Help manage I/O tasks that might block the main thread and cause the application to become unresponsive

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External Libraries

01 **ML-Kit** - Is used to identify data from images using machine learning technologies. It allows performing actions such as image labeling, text recognition etc.

02 **Google Play Service** - Provides thousands of APIs that make it possible to provide high-quality experiences in applications such as using location and Google Maps

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Video Link

ROME

https://youtu.be/9ctYFaT5_1c

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Thank You!