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# Adomile

## Description

Adomile manages and organizes all your trip records and makes all the calculations for you. All the details you need for reporting is just a glance away and always updated. Logging trips is no fun so we made it as simple as possible for you so you can do more fun stuff instead. Add a widget to your screen and you can get all the important information without even opening the app.

## Intended User

Drivers that need or want to keep a log of all trips for a vehicle for reporting or statistics.

## Features

- Logging of trips.
- Set trip as private or work.
- Precalculated values for reporting and statistics.
- Suggestions for destinations so you don't need to enter the same places again.

- Trip records can easily be edited if you made a mistake.
- Export trip records.
- Conforms to the Swedish guidelines by Skatteverket.

## User Interface Mocks

Icons in the mocks are not the final icons that will be used in the app.

### Register


Register trips as work or private.
A card is shown with the last trip.

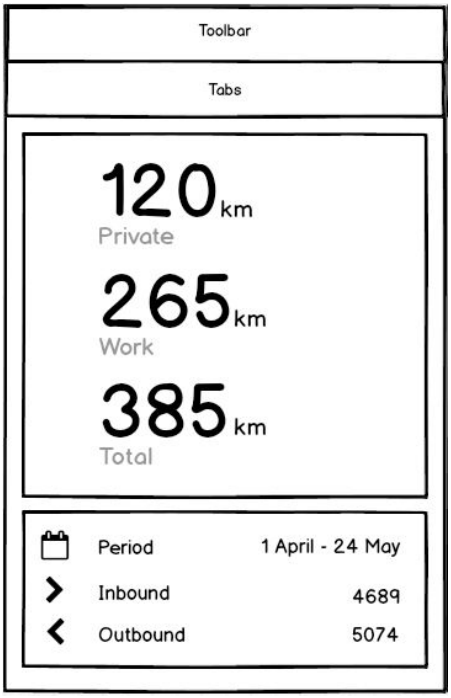
Valid inputs

- Date
- Destination
- Mileage
- Notes

## Logg

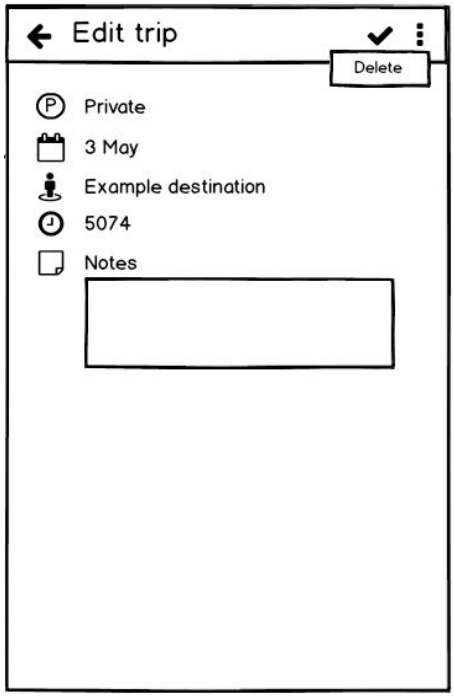

List of trips where each row is a single trip.

## Summary



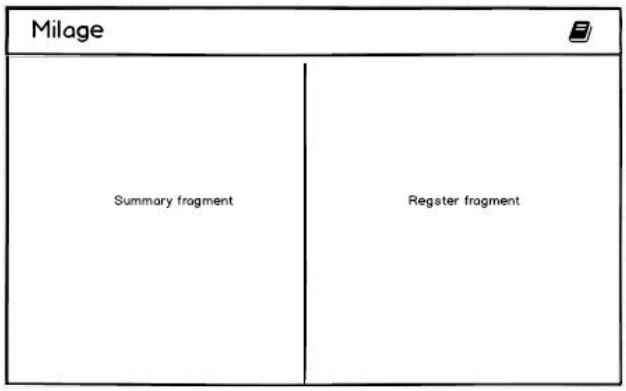

An overview of the trips made during the current month.

### Edit




A trip can be edited and deleted.

### Tablet Landscape




Summary and registration is placed next to each other on a tablet in landscape, the log is launched via the icon in the toolbar.

## Key Considerations

#### How will your app handle data persistence?

A content provider will be used to store data in a SQLite database.
AsyncTask will be used when calculating values for the summary view.

**Describe any corner cases in the UX.**

If a mileage value is entered that is lower than the previous trip a indication about this will be shown, a snackbar will give info if user still tries to submit with a faulty value.

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

Schematic for generating the content provider with a backed SQLite database. I have not used schematic before but heard a lot of  good about it so it's time to try it out.

## Task 1: Project Setup

- Create Android Studio project.
- Add colors, strings and text properties to res.

## Task 2: Implement UI for Each Activity and Fragment

- Main activity UI with tabs
- List item for log fragment with mock data
- Report fragment with mock data
- Summary fragment with mock data
- Log fragment with mock data
- Edit activity

## Task 3: Schematic

Replace mock data. Use schematic for handling the data.

- Add Schematic to the project.
- Use schematic for the report view.
- Use schematic for the summary view.
- Use schematic with an adapter for the log list view.
- Use schematic for the edit view.

## Task 4: Google location service

Implement location service to get the user's location for saving destinations and suggesting previous visited destinations when registering a trip.

- Add location service to the project.
- When a destination is entered save the name of the destination and coordinates if it doesn't exist.

- Show a destination as default value in registration if users coordinates is close to a saved destination.

## Task 4: Accessibility

- Add support for accessibility
- RTL

## Task 5: Google analytics

Add analytics to be able to information about how the app is used

- Add analytics service to the project.
- Add analytics to each view.

## Task 6: Widget

- Add widget that displays the summary values.
- Tapping on widget launches the app.

## Task 7: Build

- Sign app.
- Make sure app build with installRelease.