

General description of the application:

Our application boasts a sleek and intuitive interface designed to captivate users from the moment they land on the front page. Upon arrival, users are presented with the option to input either a Finnish city or any location across the globe, be it a city, country, or state.

With a seamless user experience in mind, our interface offers two distinct pathways: weather and statistics. The weather feature provides users with real-time and forecasted weather updates, along with insightful climate information tailored to the specified location.

For those keen on delving into the statistical landscape of Finland, our platform offers a comprehensive statistical analysis, exclusively available when a Finnish city is selected. Users can access yearly population data and engage in an educational quiz segment, where they can put their newfound knowledge to the test. The quiz comprises thoughtfully crafted questions, providing users with immediate feedback on their accuracy and further enriching their understanding of Finnish demographics.

By seamlessly intertwining data-driven insights with an engaging user experience, our application empowers users to effortlessly explore the world around them while fostering a deeper understanding of local and global climates and demographics.

Division of labour:

Vatsal Rukhaiyar implemented the simple and easy to use user interface, Vatsal also implemented the quiz part in the statistics category. Anuj Rathee implemented the rest of the statistics category, and he also implemented the weather category in the application.

Features implemented:

Mandatory → 10 points

Recycle View → 3 points.

You are displaying images → 2 points.

There is more than one data source → 3 points.

People can see previous use → 2 points.

Card View → 3 points.

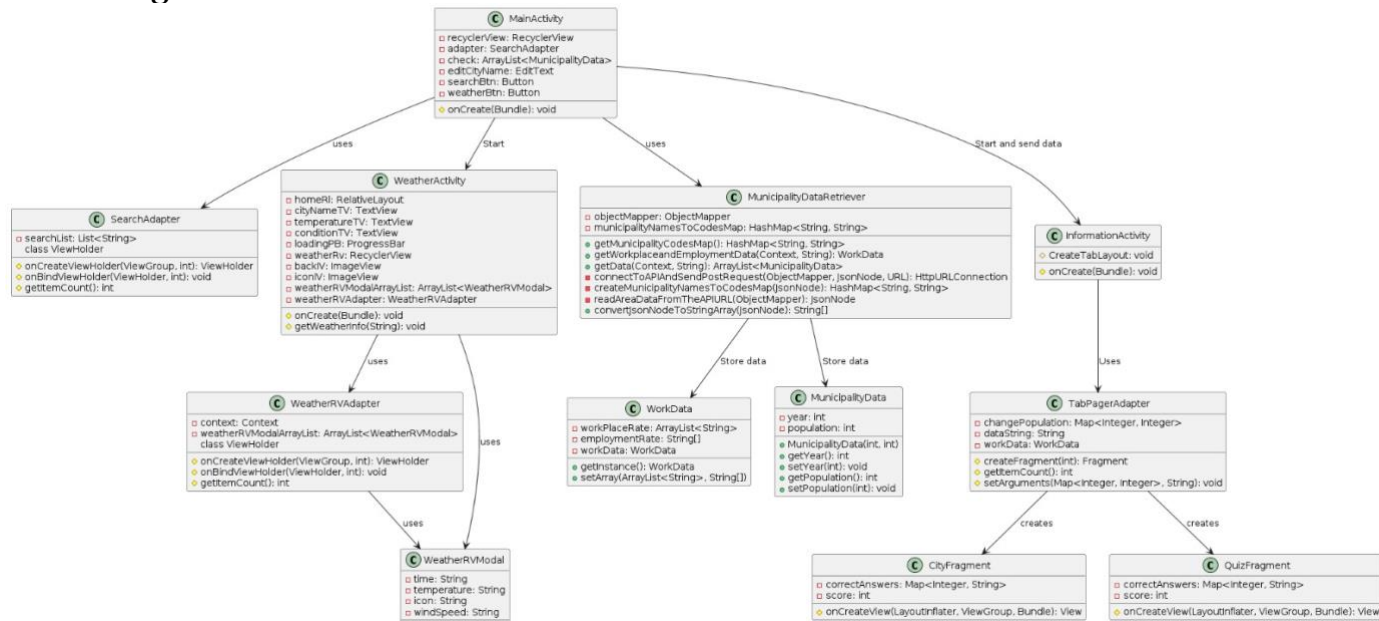
Fragment → 4 points.

Quiz → 4 points.

Data visualization → 5 points.

Weather for countries and cities all over the world and hourly weather forecast
 → 5 points.
 Progress bar → 2 points.

Class Diagram:



Installation instructions:

The application can run completely by itself, there are no need for any extra installation instructions. There are a few images that are used in the weather category of the application which will be provided in the zip file attached with the source code.