

Technical report

This is a technical report for the weather forecast platform, that provides users with access to accurate and up-to-date weather data and future weather forecast display, it also allows users to register personalized accounts, giving them a more relevant experience tailored to their individual preferences

Business Model

This is an application that provides users with access to accurate and up-to-date weather data and future weather forecasts. It also allows users to register personalized accounts, offering a more relevant experience tailored to their individual preferences.

The **user stories** for this project will be the following:

- As a user, I want to be able to register in the app, to further personalize my experience and access additional features.
- As an administrator, I want to be able to see the record of all the users of the application and their data, to see the users' information and have control in the application
- As a user, I want to be able to see the current weather of my location, including temperature, weather conditions (sunny, cloudy, rainy, etc.), and wind chill, to have the necessary information about the weather in my location
- As a user, I want to receive a future weather forecast for my location, showing the expected temperature, weather conditions and any significant changes, to know the weather changes during the day.
- As a user, I want to be able to check the weather at other specific locations, either by manually entering the location or selecting it on an interactive map.
- As a user, I want to have access to additional weather details, such as humidity, wind speed, etc., to have all the weather information in a single application
- As a user, I want the option to receive notifications about significant weather changes, such as storm alerts, drastic temperature changes, or adverse weather conditions.
- As a user, I want to customize the unit of measurement for temperature, wind speed and other relevant measurements, to personalize the user experience

CRC Cards

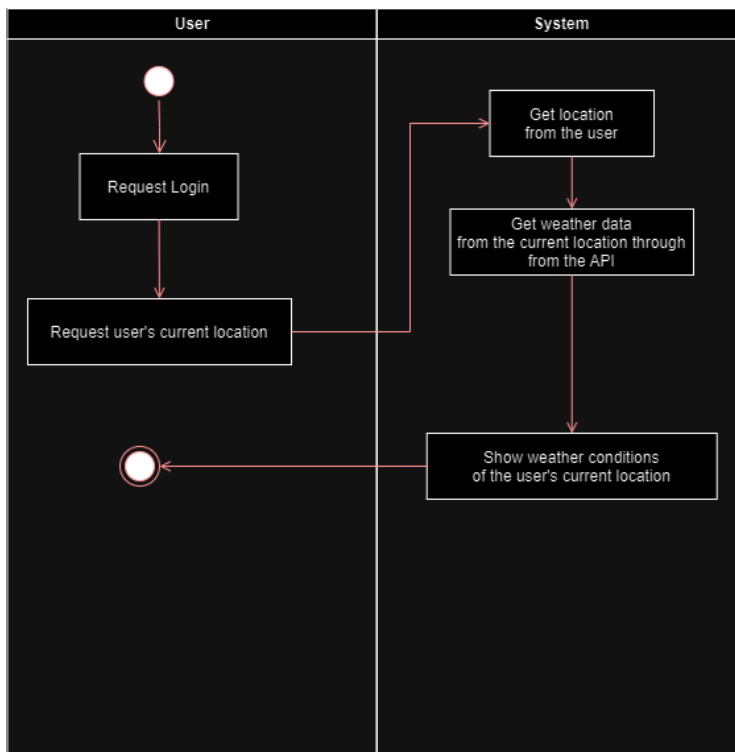
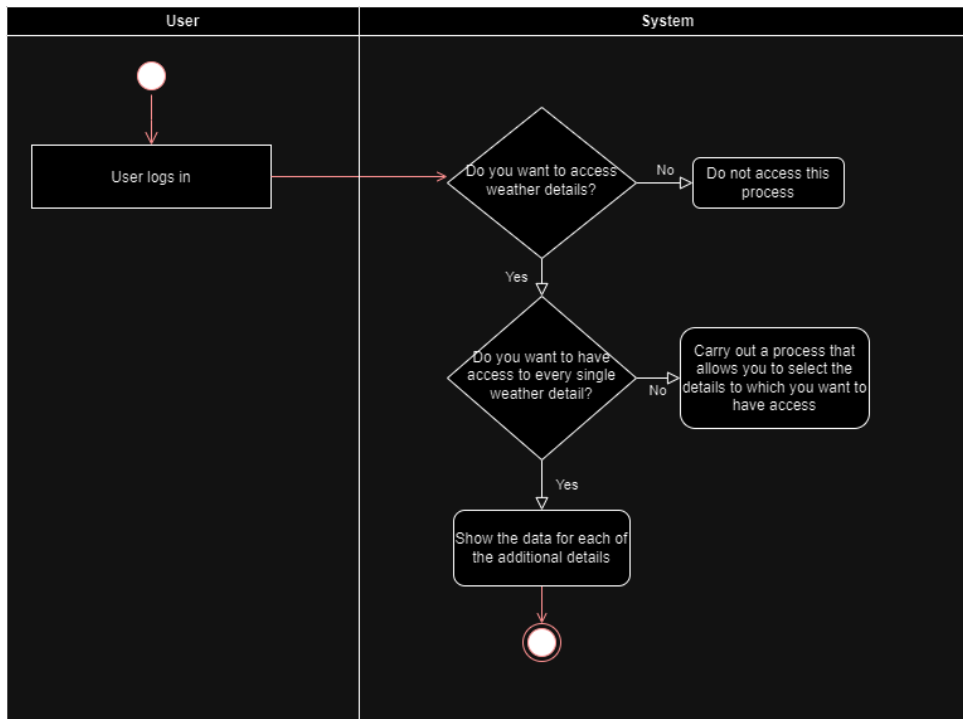
UserDB	
Responsibilities	Collaborators
-Store application user information in the database.	-User
-Request user information stored in the database.	-Administrator
-Update user information in the database	

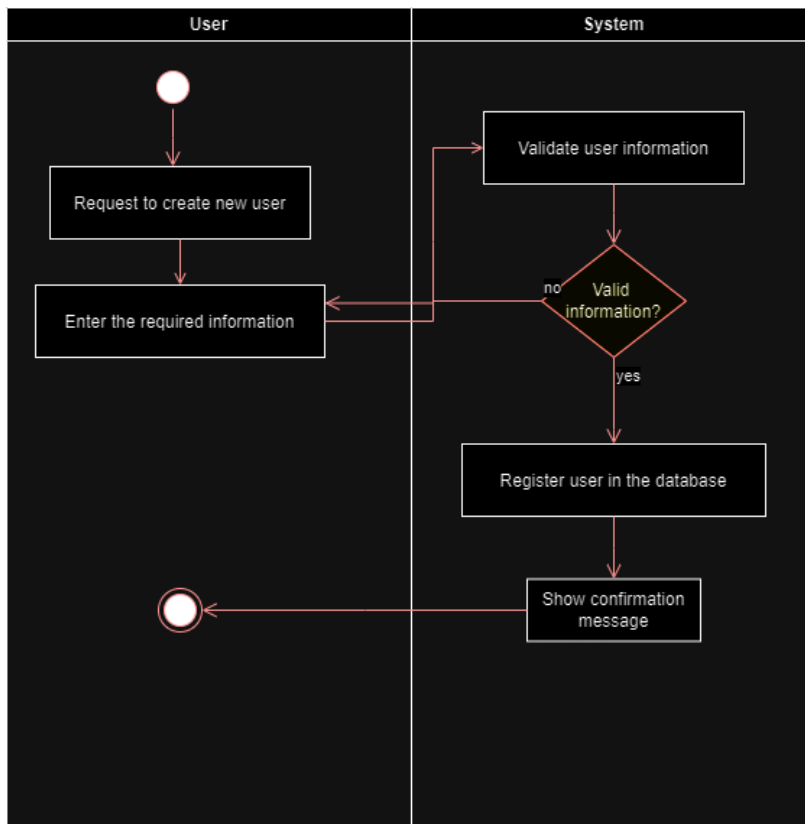
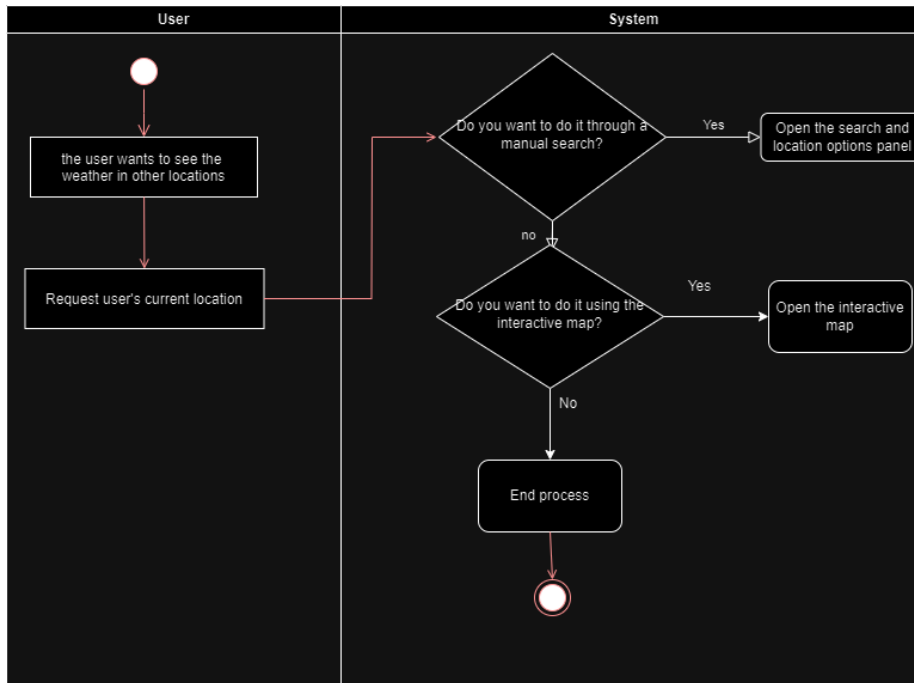
User	
Responsibilities	Collaborators
-Create new users	-UserDB
-Sign in to the app	-WeatherData
-Customize user measurement unit preferences	
-Receive notifications about climate changes	
-Log out of the application.	

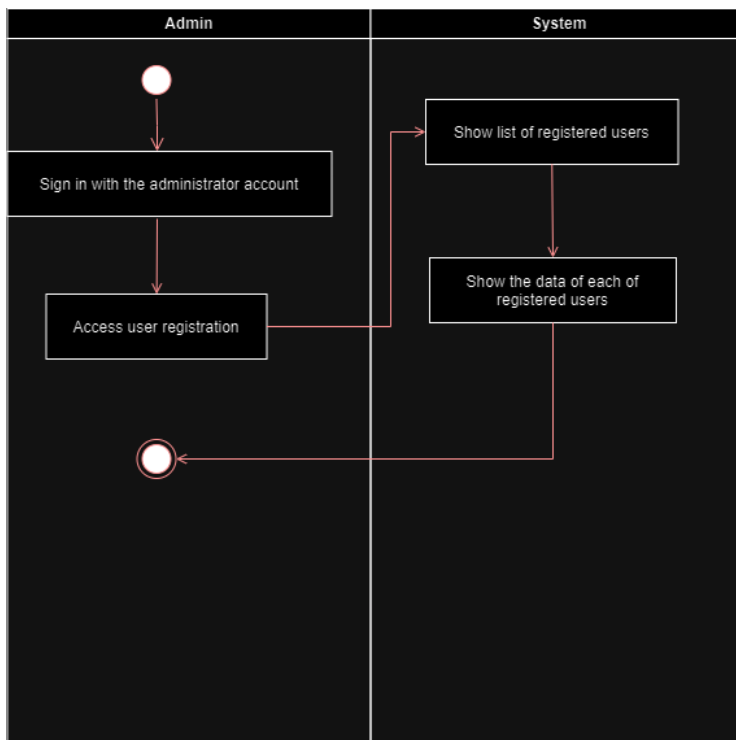
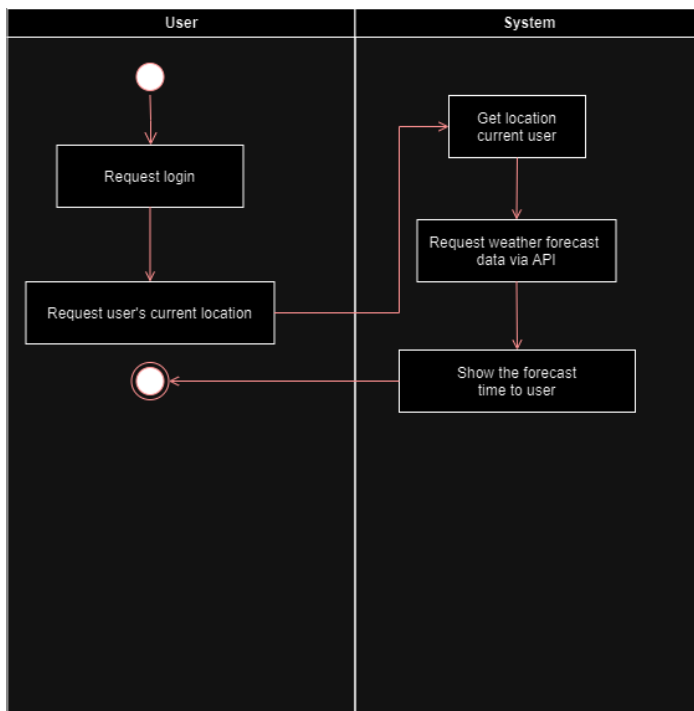
WeatherData	
Responsibilities	Collaborators
-Process the received meteorological data.	
-Show current temperature.	-User
-Show current weather conditions.	
-Show the thermal sensation.	
-Show additional weather details such as humidity, UV index, visibility, etc.	
-Get weather data from API	

Administrador	
Responsibilities	Collaborators
-View the log of all users of the application.	-UserDB
-View the data of each registered user.	
-Log in as administrator.	
-Sign out as administrator.	

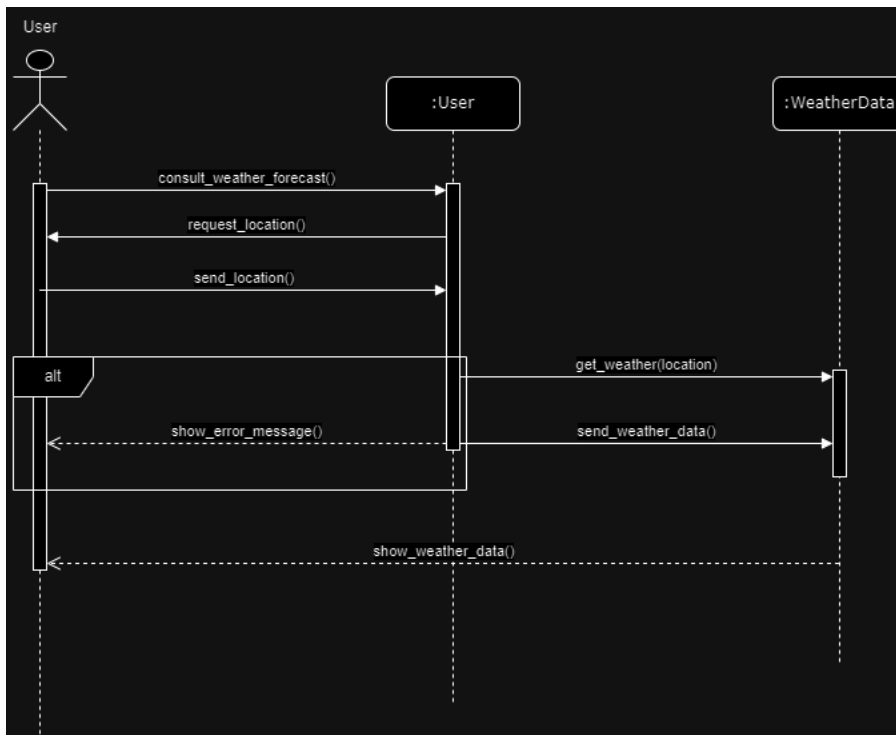
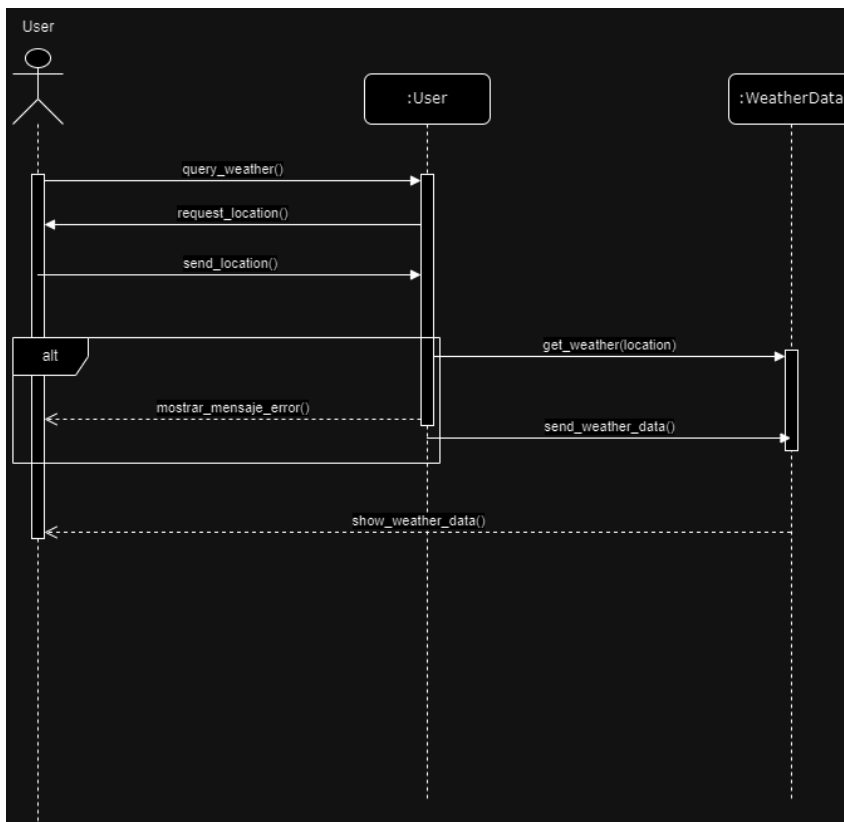
Activity Diagrams

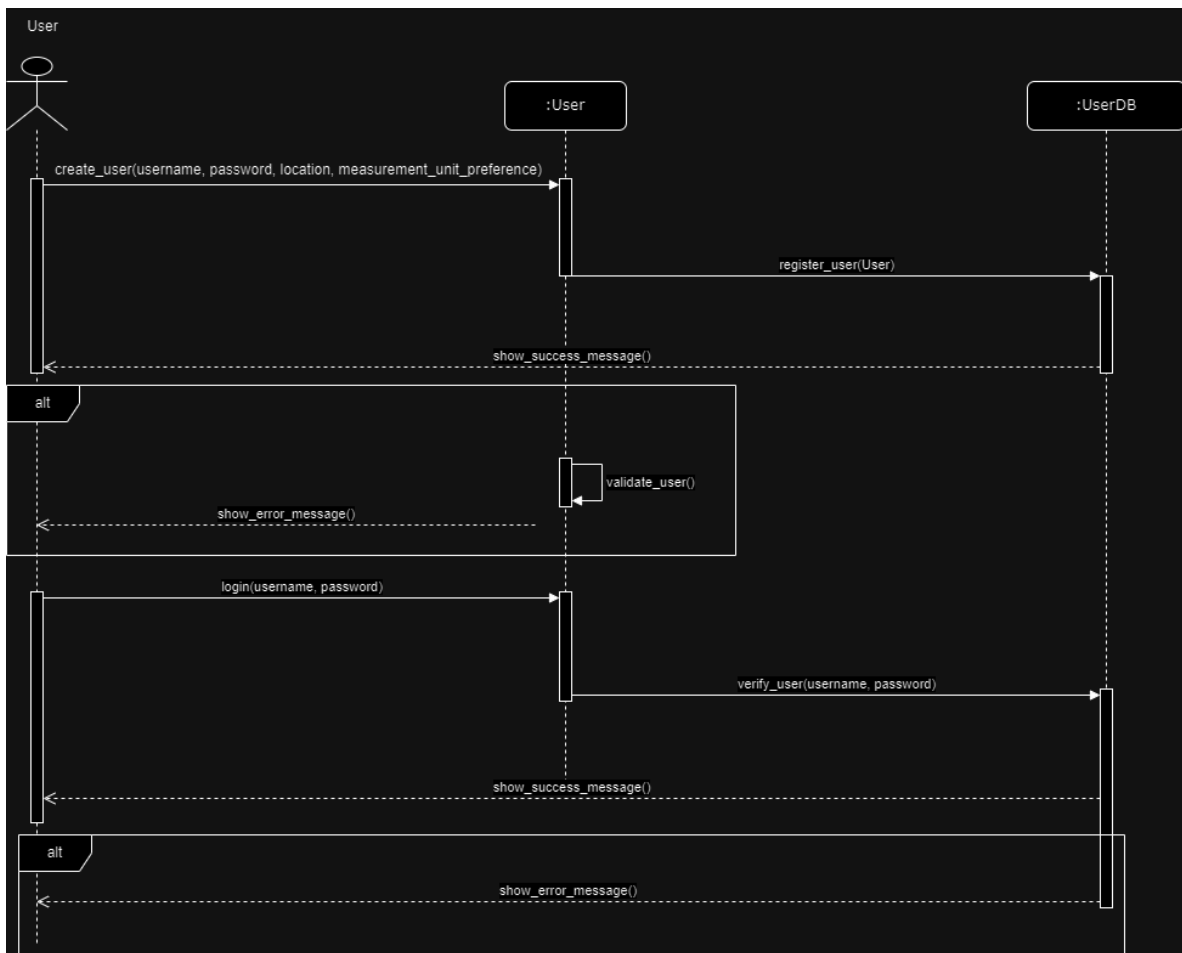


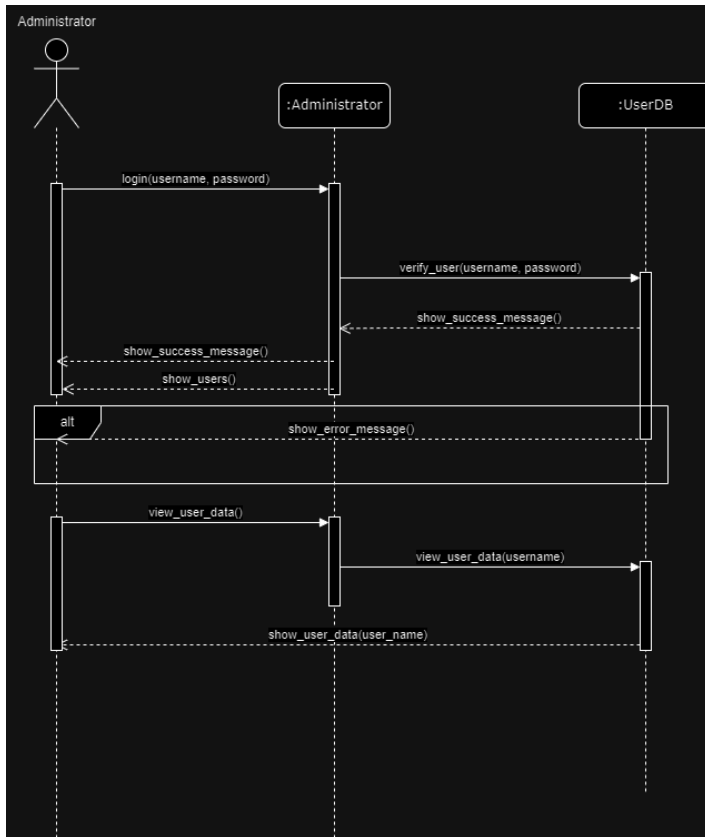




Sequence Diagrams







Class Diagram



State Diagrams

