

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

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, UV index, 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
- As a user, I want the app to maintain a history of previously viewed locations, to facilitate quick access to previous weather information.

CRC Cards

Administrador	
Responsabilidades	Colaboradores
-Ver el registro de todos los usuarios de la aplicación.	-BDusuarios
-Ver los datos de cada usuario registrado.	
-Iniciar sesión como administrador.	
-Cerrar sesión como administrador.	

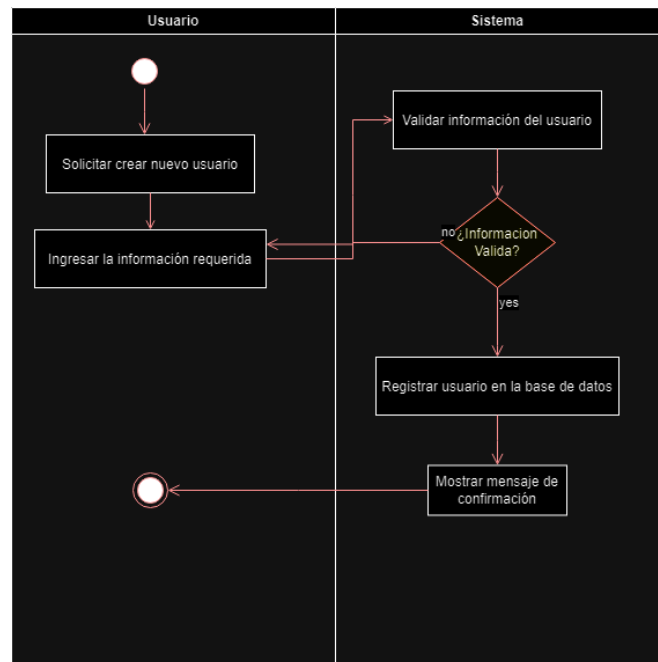
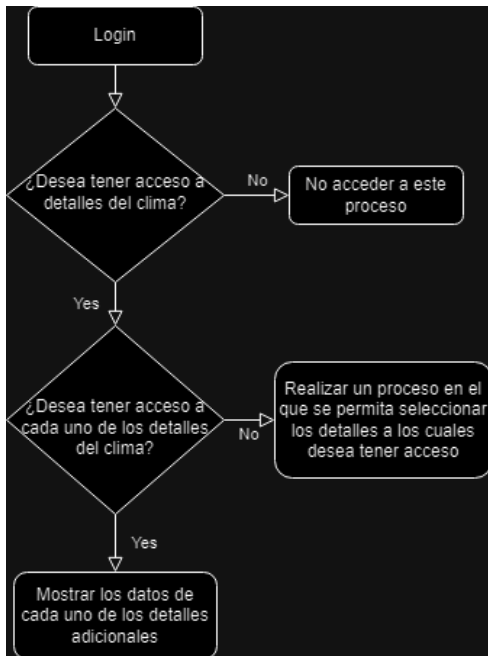
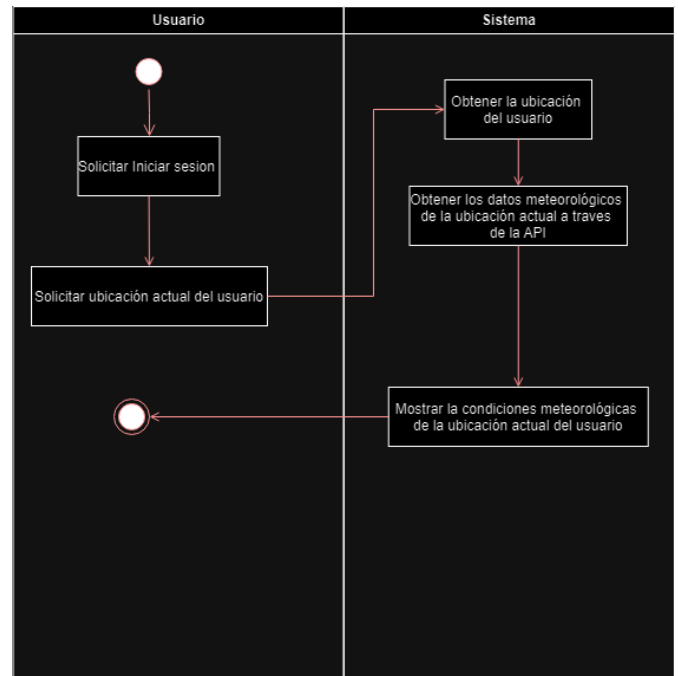
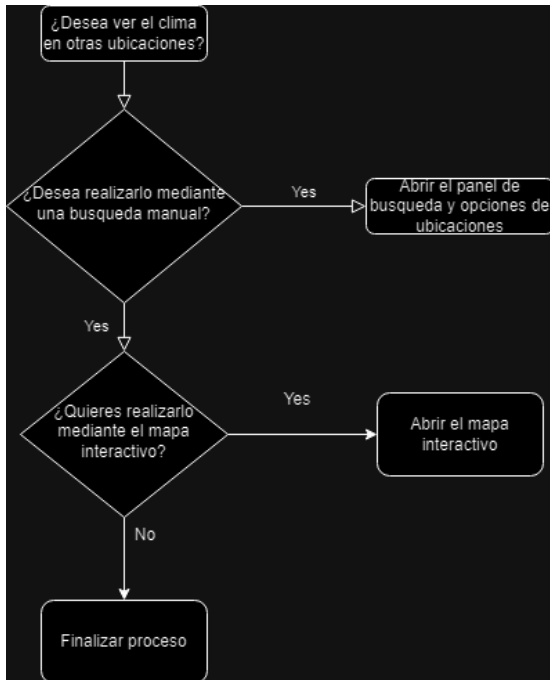
Api	
Responsabilidades	Colaboradores
-Obtener los datos meteorologicos de la API	-DatosClima
-Enviar los datos meteorologicos a la clase DatosClima	

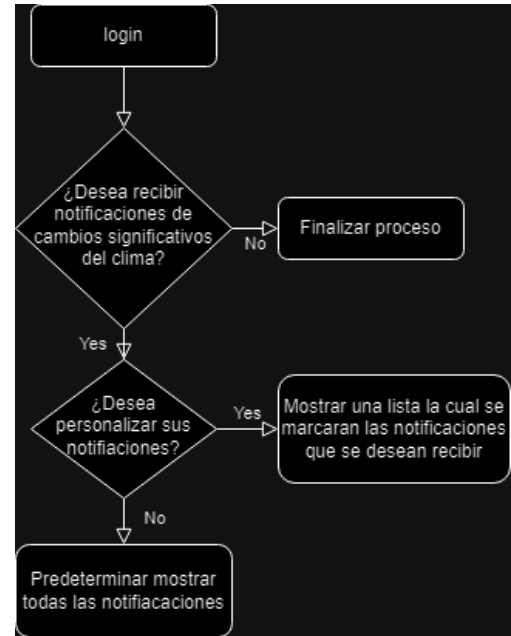
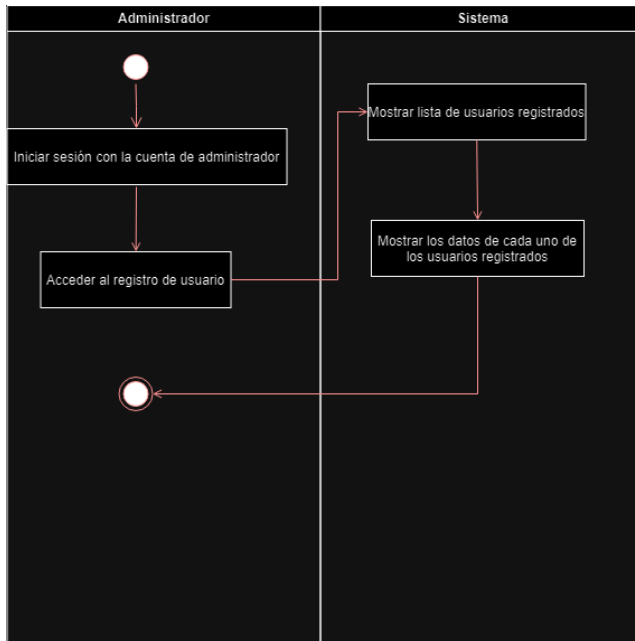
BDusuarios	
Responsabilidades	Colaboradores
-Almacenar la información de los usuarios de la aplicación en la base de datos.	-Usuario
-Solicitar la información de los usuarios almacenados en la base de datos.	-Administrador
-Actualizar la información de los usuarios en la base de datos.	

DatosClima	
Responsabilidades	Colaboradores
-Procesar los datos meteorológicos recibidos.	-Api
-Mostrar la temperatura actual.	-Usuario
-Mostrar las condiciones climáticas actuales.	
-Mostrar la sensación térmica.	
-Mostrar detalles adicionales del clima, como humedad, índice UV, visibilidad, etc.	

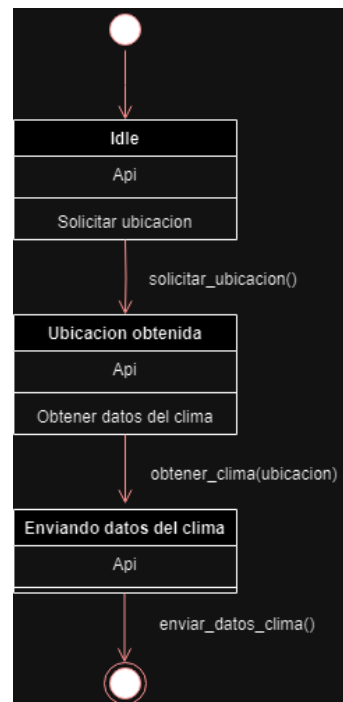
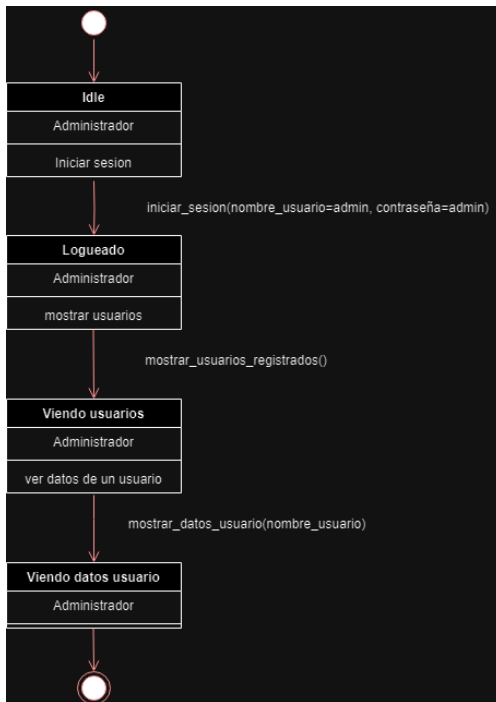
Usuario	
Responsabilidades	Colaboradores
-Crear nuevos usuarios	-BDusuarios
-Iniciar sesión en la aplicación	-DatosClima
-Personalizar preferencias de unidad de medida del usuario	
-Recibir notificaciones sobre cambios climáticos	
-Cerrar sesión en la aplicación.	

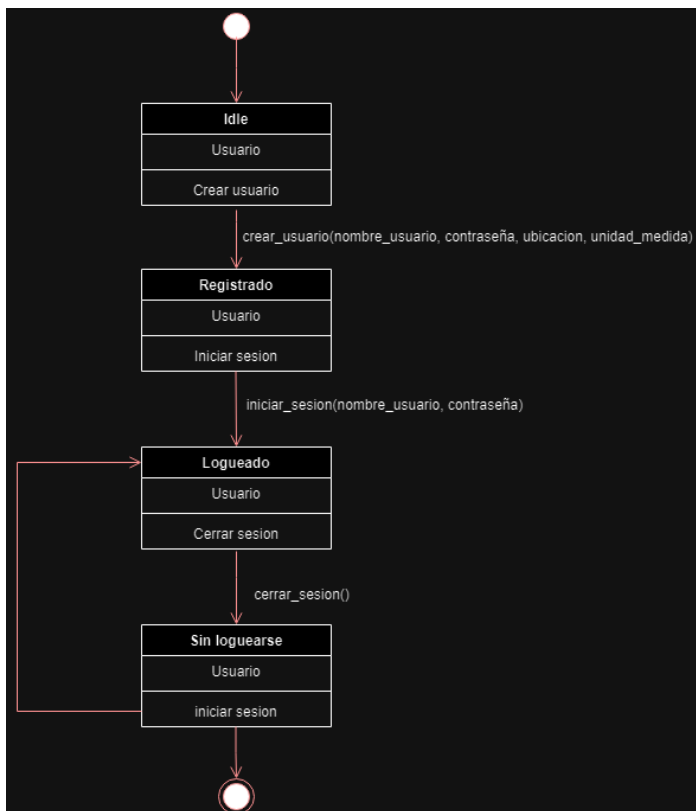
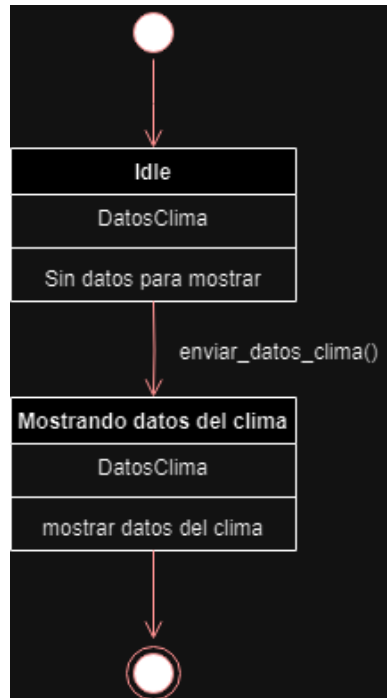
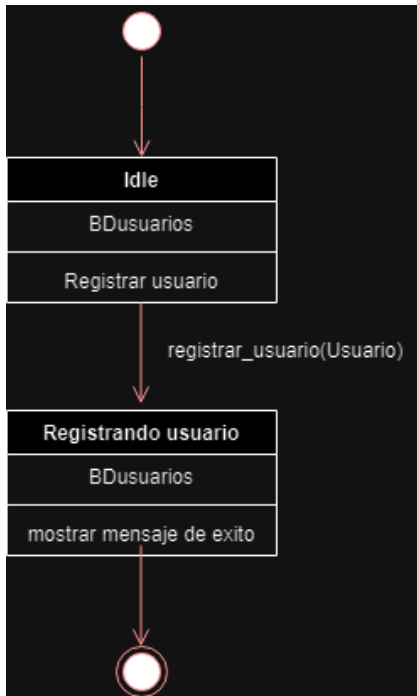
Activity Diagrams





Sequence Diagrams





Class Diagram



State Diagrams

