



National University of Computer & Emerging Sciences

Software Design & Architecture

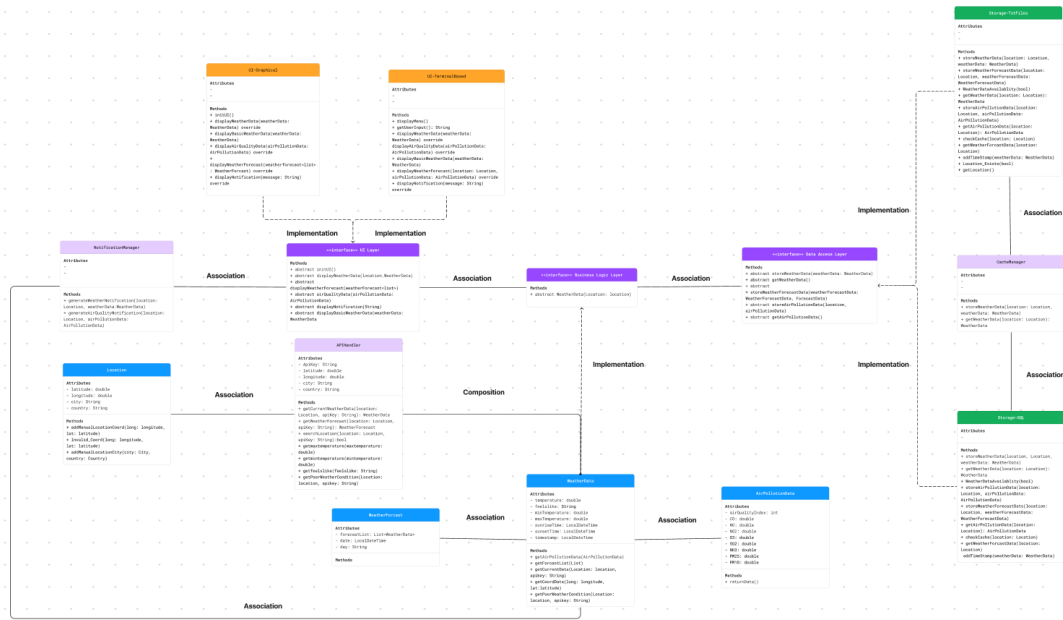
Deliverable-1

Team Members:

1. Syed Huzaifa Mustansar (22L-7941)
2. Faizan Saleh (22L-7925)
3. Ahmad Shamail Butt (22L-7901)
4. Asfandyar Ali (22L-7945)
5. Moin Ud Din (22L-7920)
6. Abdur Rafay (22L-7832)

1- Class Diagram

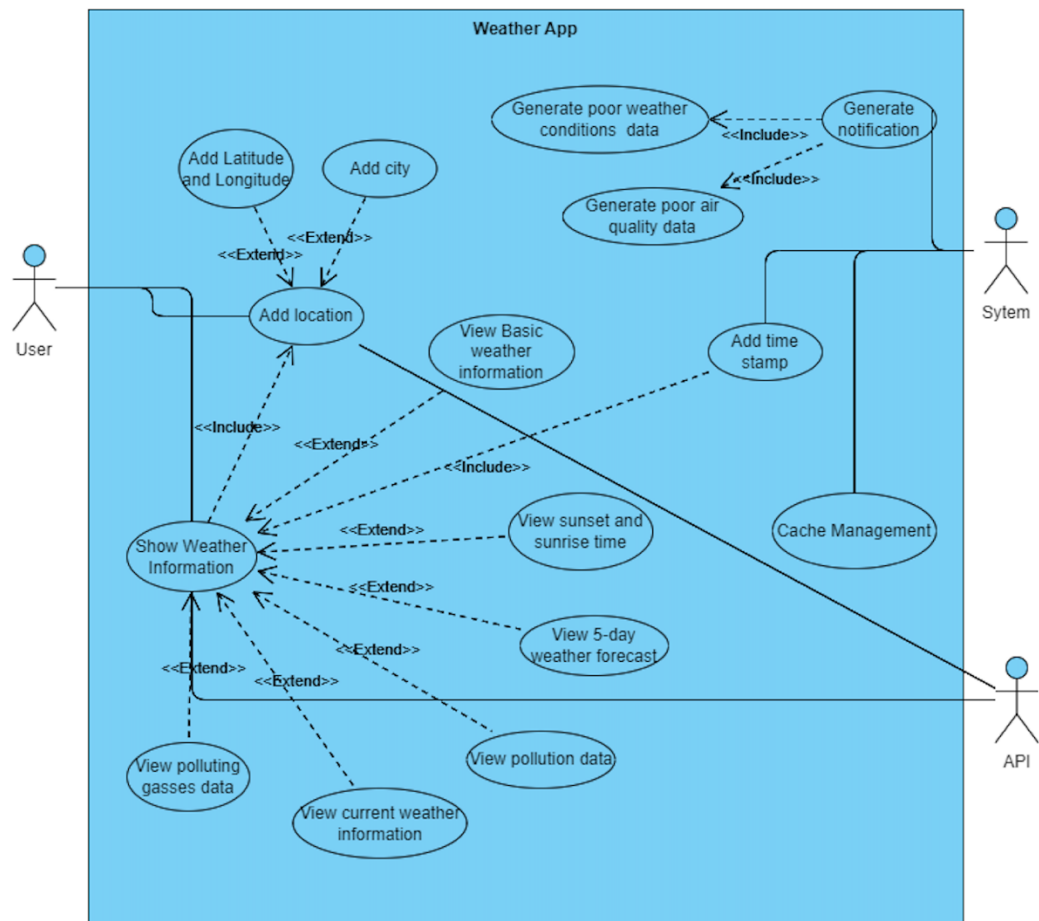
Weather App Class Diagram



FigJam Link (Class Diagram):

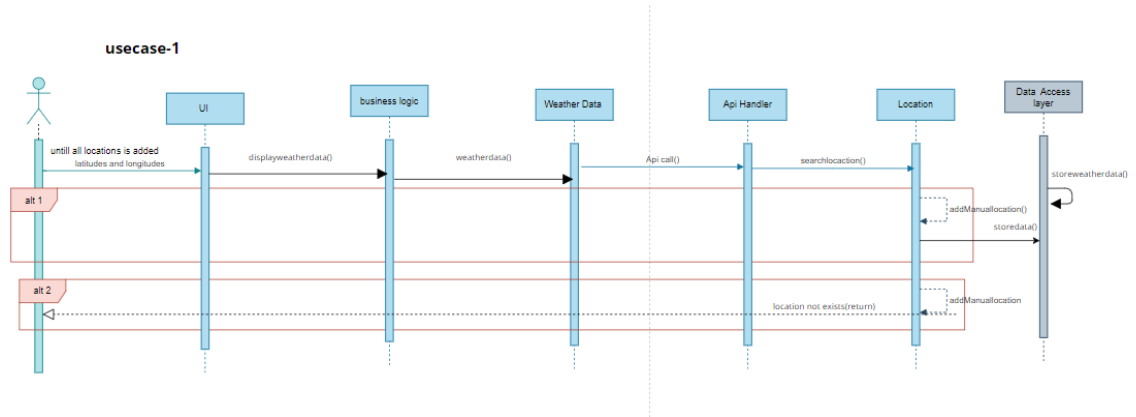
<https://www.figma.com/file/OcD9zy7E1IVh6uV6qMIIXU/SDA-Project-Work?type=whiteboard&node-id=0%3A1&t=VDGth5cJbAh5fBL4-1>

2- Use Case Diagram

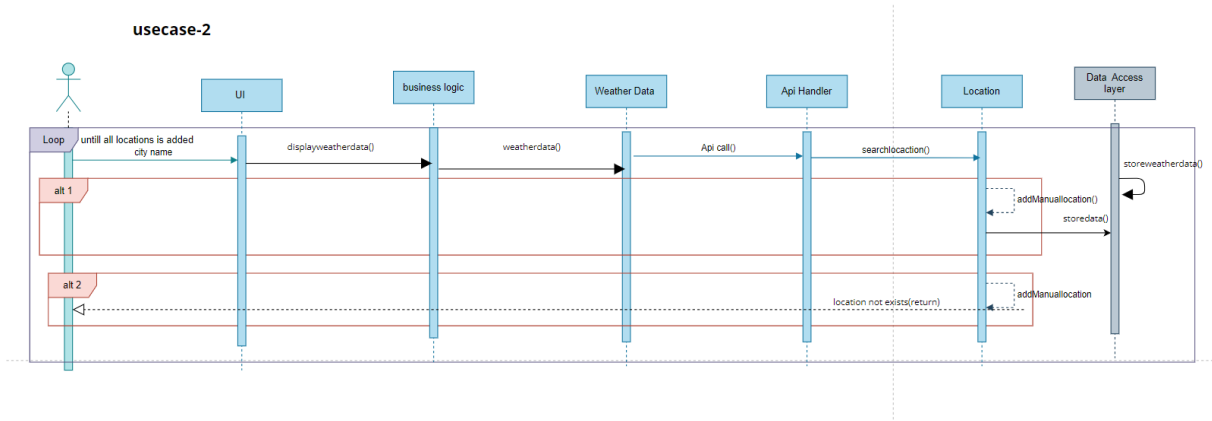


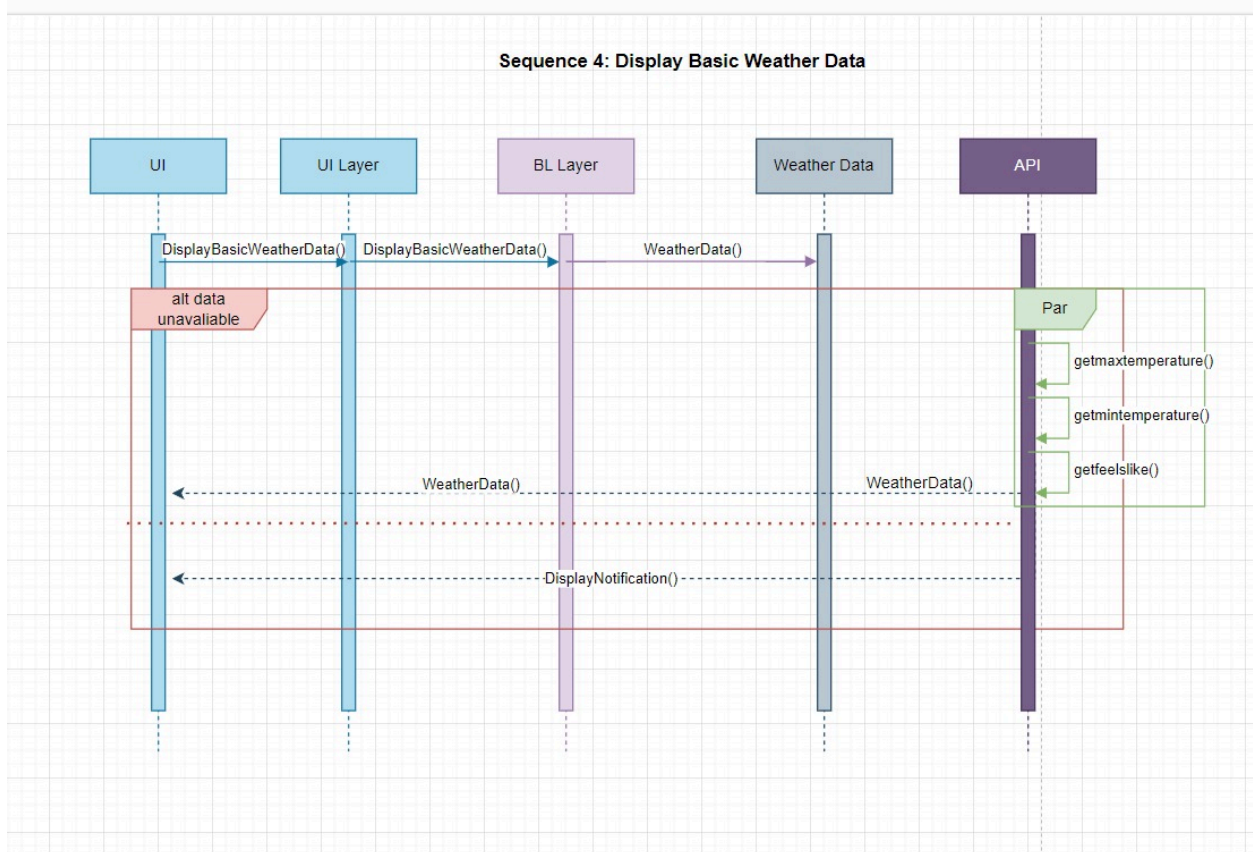
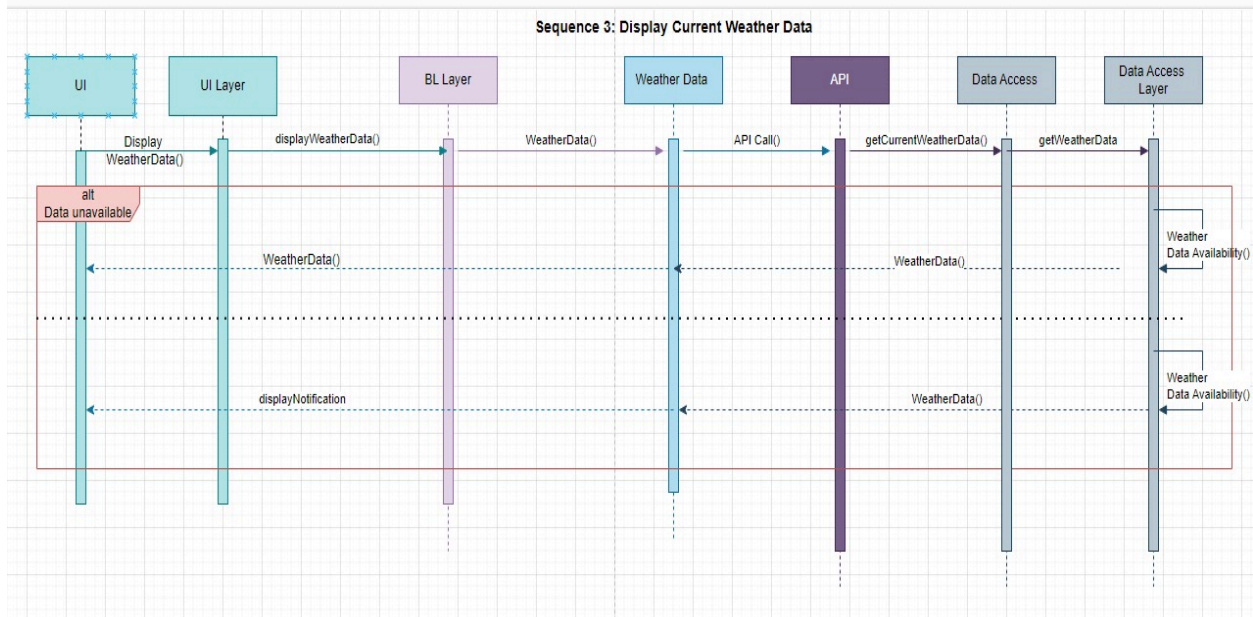
3- Sequence Diagrams

- 1) Add multiple locations to check weather with longitude and latitude.

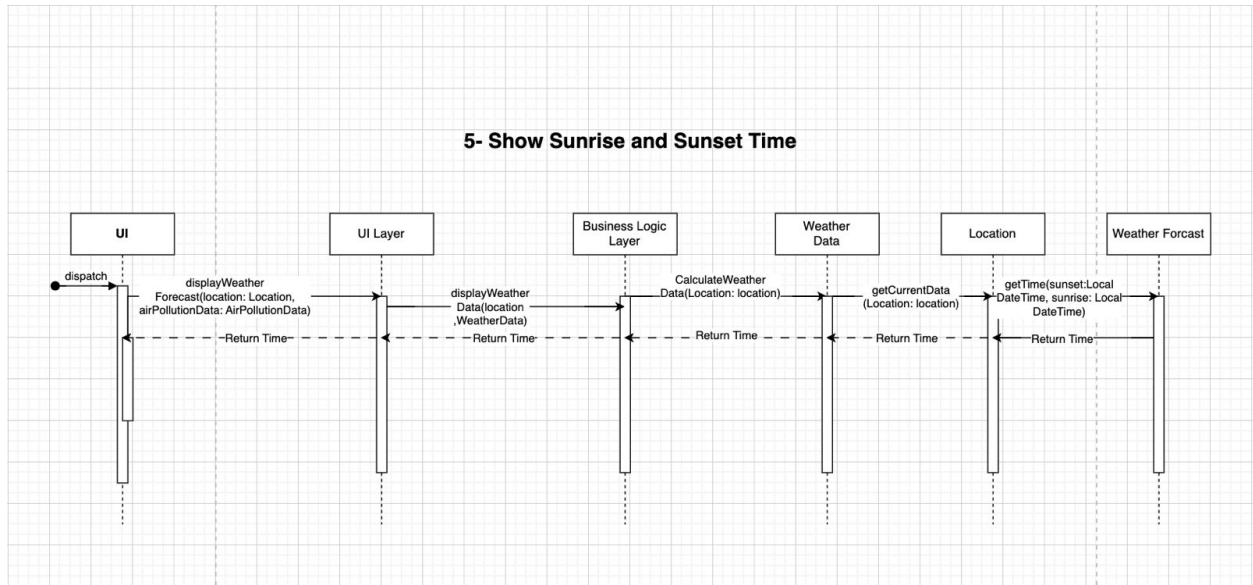


- 2) Add multiple locations to check weather with city/country name.

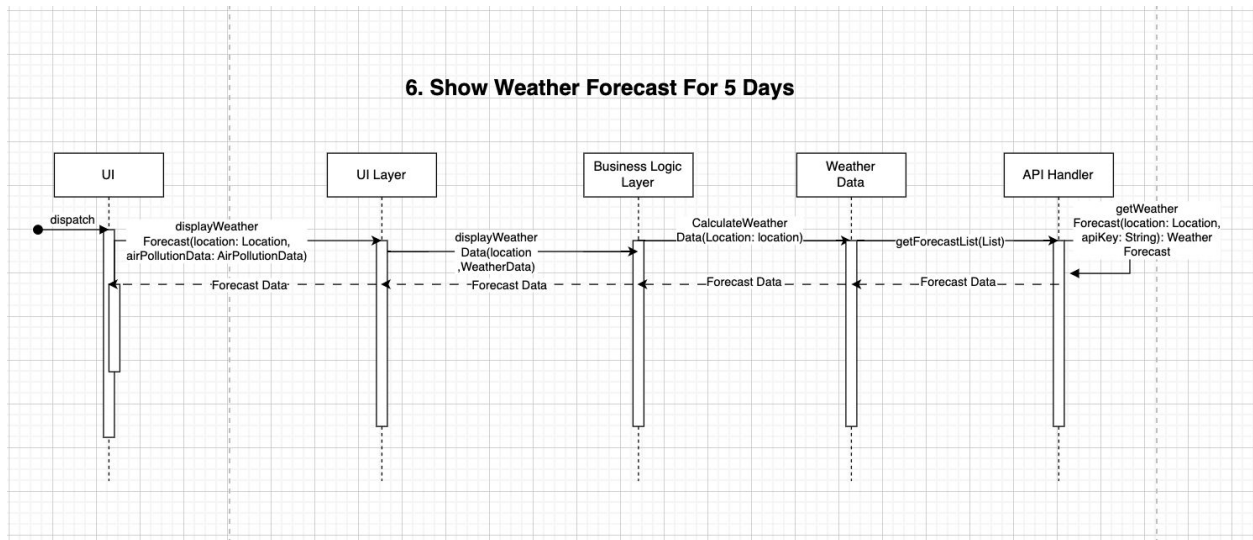




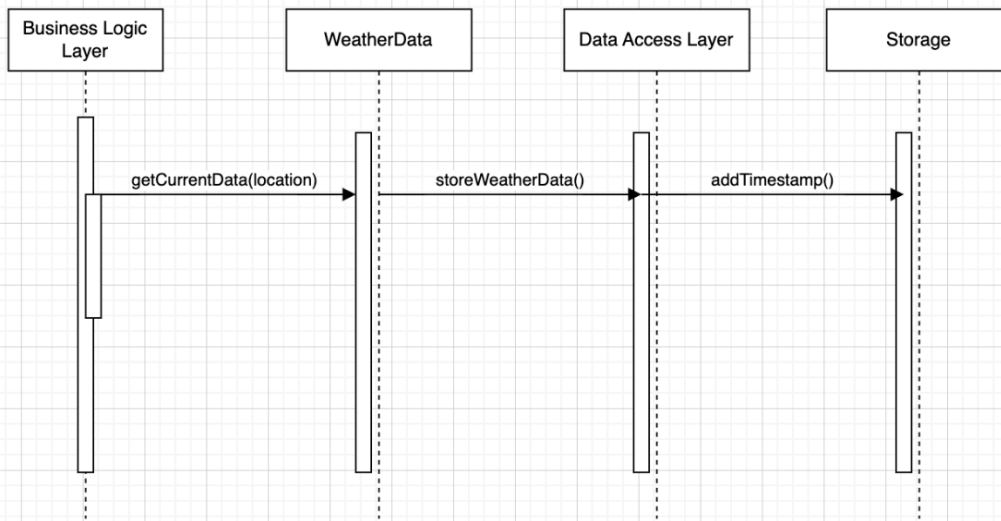
5- Show Sunrise and Sunset Time



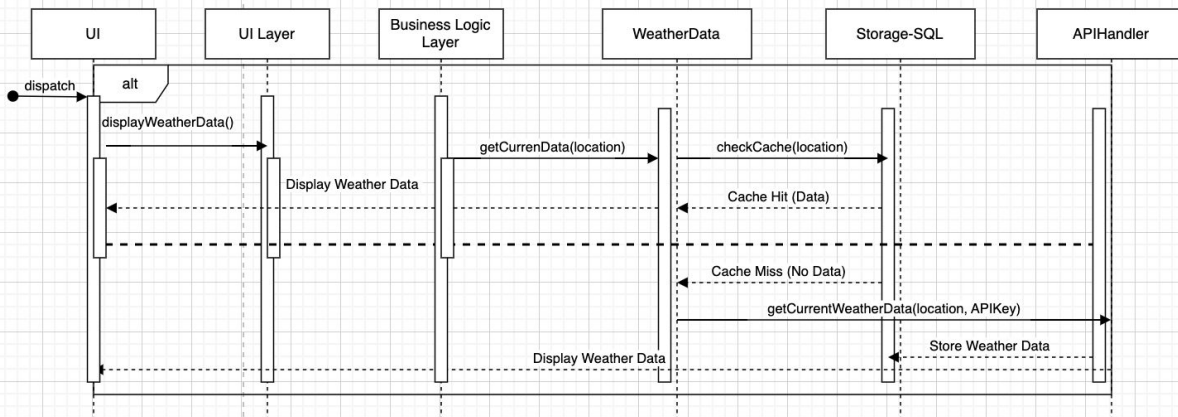
6. Show Weather Forecast For 5 Days



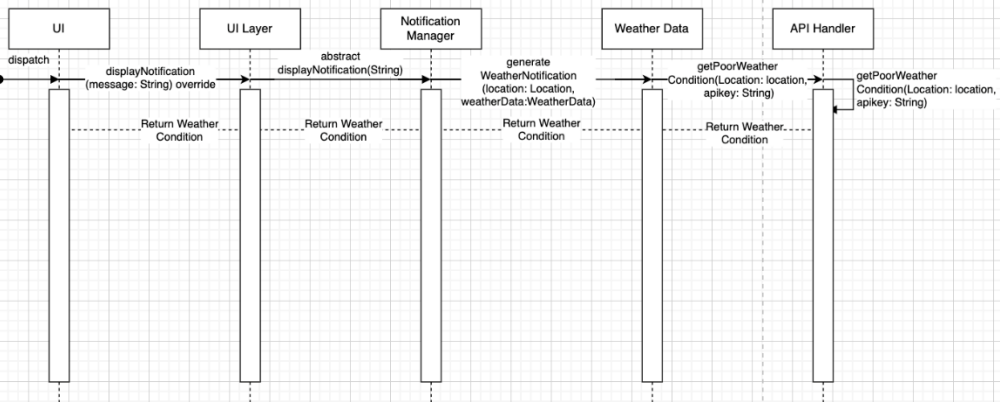
7- Add Timestamp



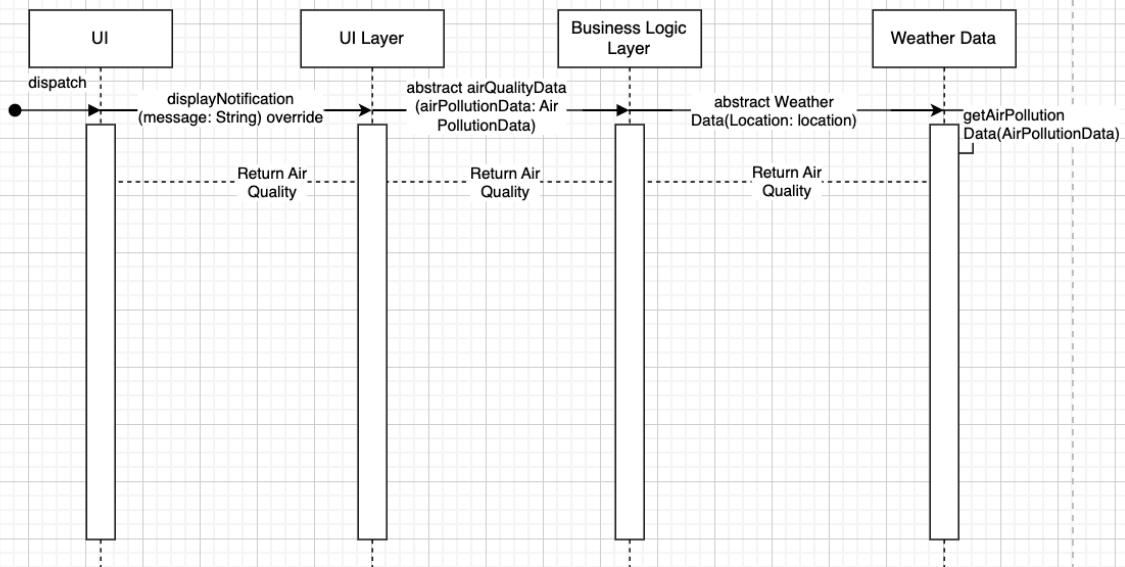
8-Cache Management



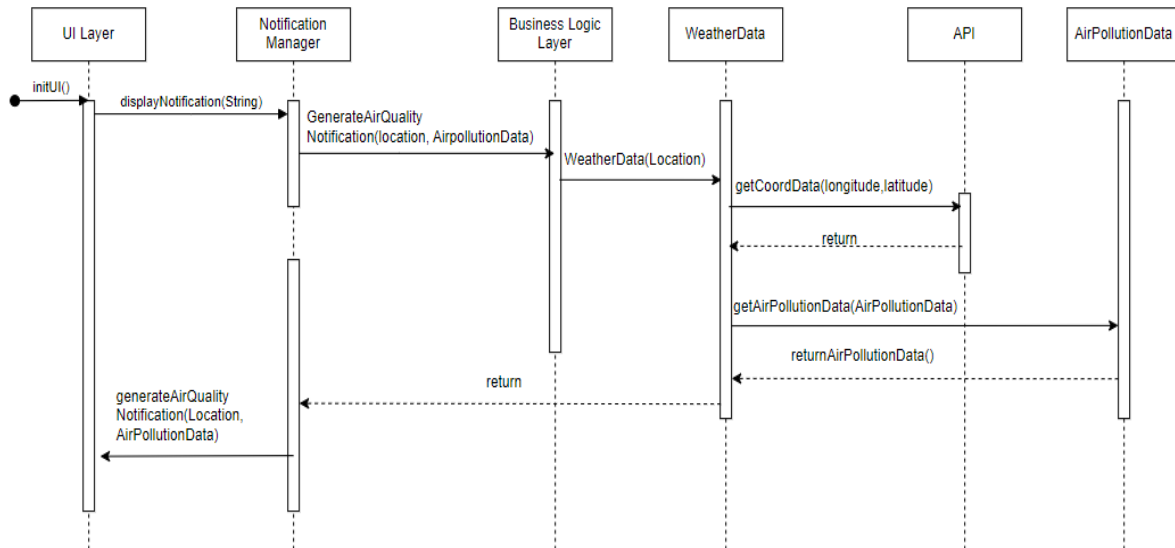
9- Generate Notification for Poor Weather Conditions



10- Show Air Pollution Data



11- Generate Notification for poor air quality



12- Show data about polluting gasses

