# Project : AirAware Smart Air Quality Prediction System

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Group: 1

# MILESTONE 3

# Problem Statement

- Air pollution levels are rising and need continuous monitoring.

- Manual monitoring is slow and not easily accessible to the public.

- Users need a **simple web interface** to view real-time/processed air quality status.

- This project provides a clean solution using modern web technologies.

# Objectives

- Collect and store air quality data securely.

- Display pollutant levels in a clean, user-friendly dashboard.

- Provide visual indicators of air quality (good, moderate, hazardous).

- Enable easy expansion for future prediction models.

# Technologies Used

1. React.js: Used to build the user interface with reusable components for dynamic pages.

2. TypeScript: Adds type safety and makes the frontend code more reliable and structured.

3. HTML & CSS: Used to structure the pages and style the overall layout and design.

4. Tailwind CSS: Provides utility classes to quickly create responsive and consistent UI styling.

5. React Hooks: Used to manage component state and lifecycle logic within the UI.
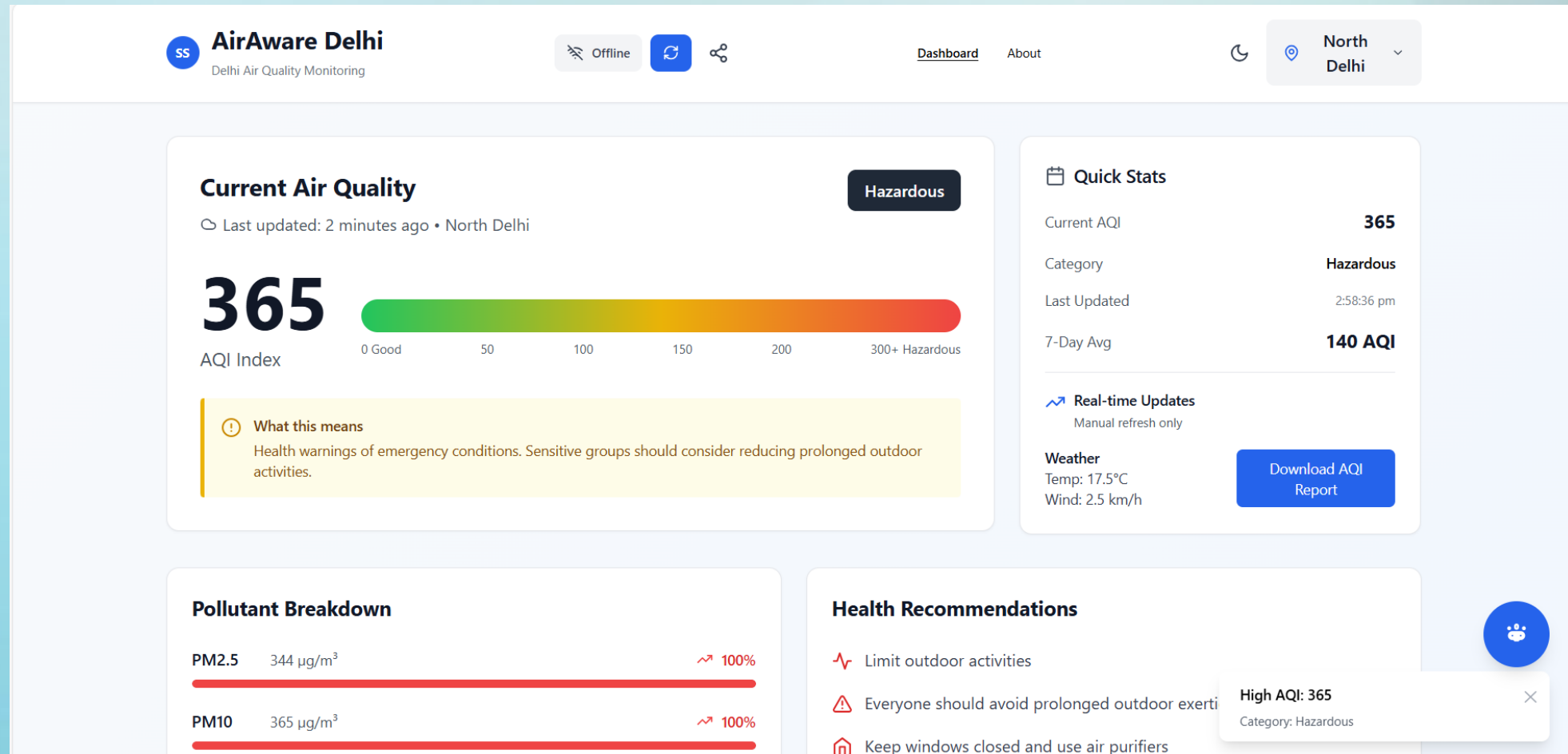
# Dashboard Features

- **Real-time Air Quality Display** – Shows the current AQI value clearly on the main dashboard.

- **Pollutant Breakdown** – Displays individual pollutant levels like PM2.5, PM10, CO, etc.

- **Color-Coded Status Indicator** – Uses colors like green/yellow/red to indicate air quality levels.

- **Clean and Responsive UI** – Automatically adapts to different screen sizes and devices.

- **Interactive Cards/Sections** – Shows different data blocks in well-structured, clickable UI components.

- **User-Friendly Layout** – Simple and intuitive design for easy navigation and quick understanding.
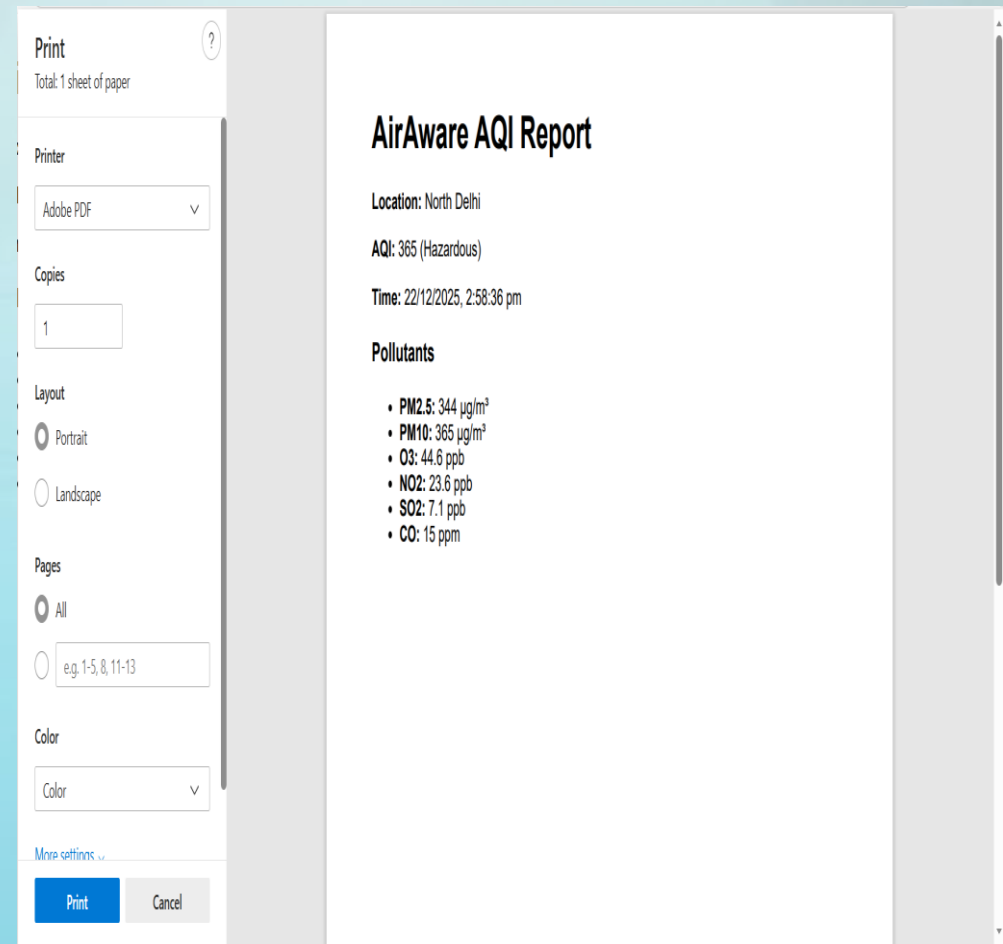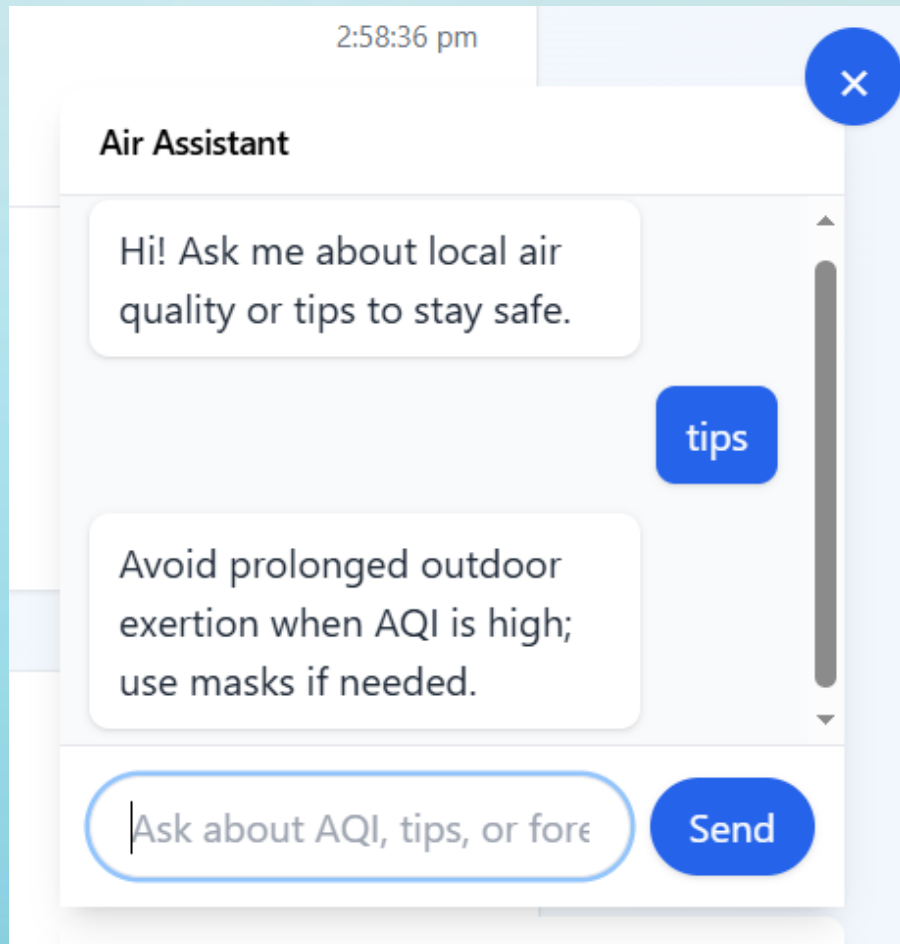
# My Contributions

- Redesigned Navigation Bar: Improved the placement and style of icons to enhance overall UI/UX and give the website a cleaner, more modern look.
- Enhanced Health Recommendation Card: Added **activity guidance** to provide users with more actionable and personalized health suggestions.
- Improved Login System: Integrated Google Authentication and enhanced the login page UI for a faster, secure, and smoother user experience
- Interactive Chatbot: Implemented an interactive floating chatbot with expand and collapse functionality for a clutter-free interface
- User Avatar & Profile Management: Added a user avatar in the navigation bar with a dropdown menu for profile view, account settings, and logout
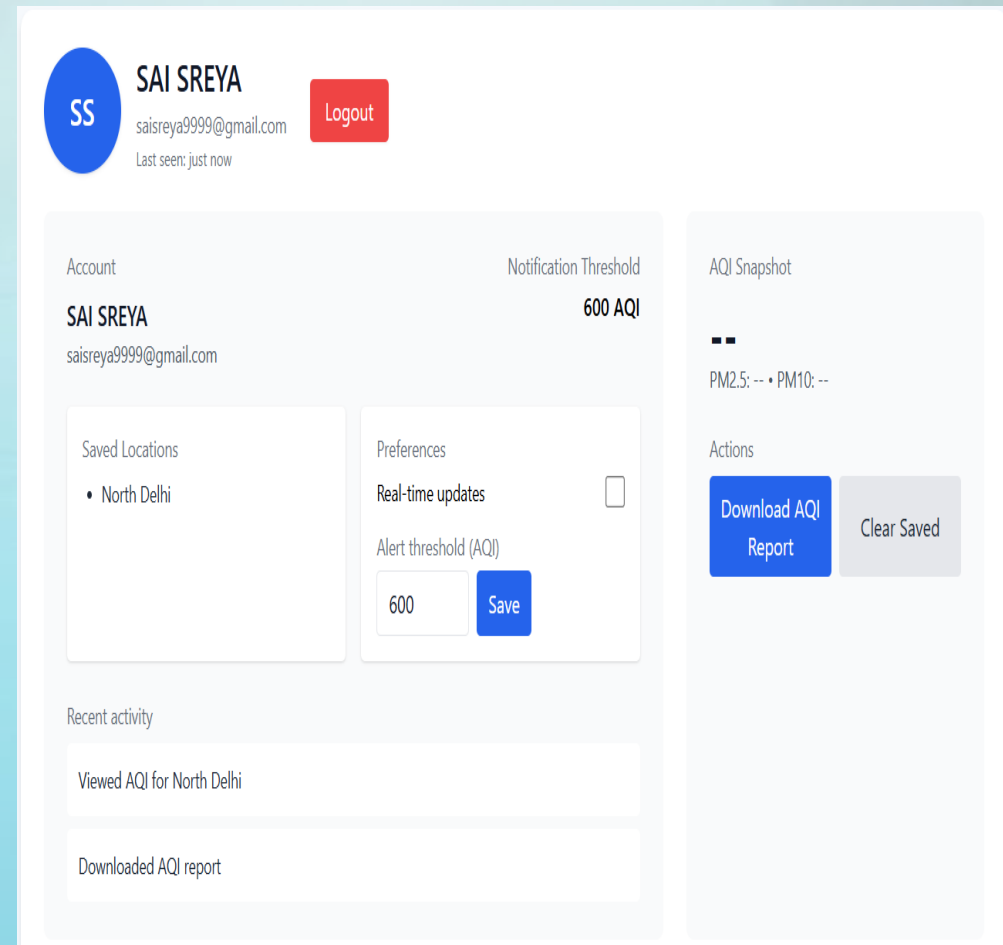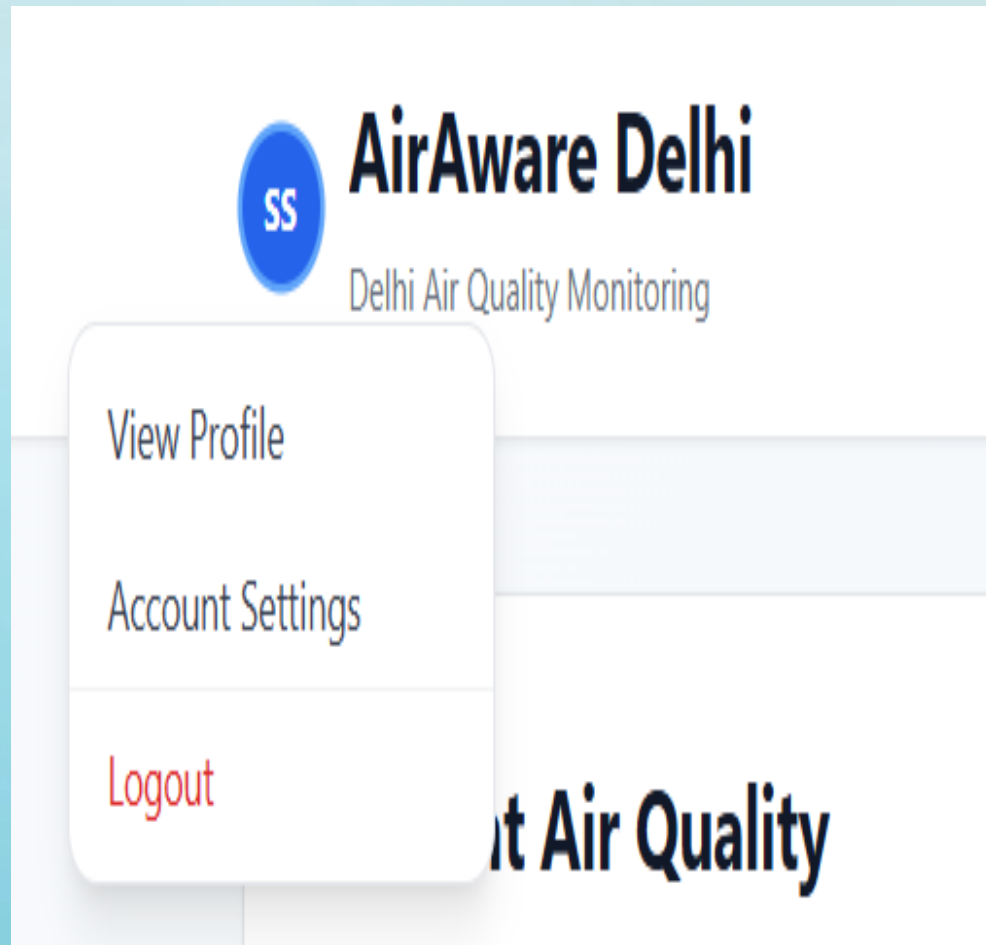
# OUTPUT SCREENS

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# THANK YOU!