Software Engineering - IT314

LAB IV

GROUP 32

Group members

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Stakeholders

- End users
- Developers
- Instructor and teaching assistants

Actors

- End users
 - Environmentalists
 - Health conscious individuals
 - Casual
- Database and hardware
- Internet
- o API

Use Cases

- 1. See details about air quality in a particular city
- 2. See details about air quality of current location (shared by user)
- 3. See details about air quality all states in India
- 4. Compare the air quality of two cities/states
- 5. See visualizations for a city for this month
- 6. See health hazards and respective precautions that can be taken in an area
- 7. See the top polluted states in India
- 8. See the air quality of metro cities in India

USE CASES

1.

→ Name

- See details about air quality in a particular city
- Menu Search City dashboard

→ Actors

- End user

→ Goal description

 The end goal is to know the air quality conditions of the city of Ahmedabad

→ Pre-conditions

- Access to internet and internet enabled device(s).

→ Description

– Upon entering the URL in a browser, the user should type the name of the city/location of which they want the data and click enter. The system should then display visualizations and statistics about the air quality for the requested location.

2.

→ Name

- See details about air quality of current location
- Menu Home

→ Actors

- End user

→ Goal description

– The end goal is to know the air quality conditions of their current location

→ Pre-conditions

- Access to internet and internet enabled device(s).
- User should share their location

→ Description

- Upon entering the URL in a browser, the system should display visualizations and statistics about the air quality for the current location.

3.

→ Name

- See details about air quality all states in India
- Menu Main dashboard

→ Actors

- End user

→ Goal description

– The end goal is to know the air quality conditions of all the states of India

→ Pre-conditions

- Access to internet and internet enabled device(s).

→ Description

– Upon entering the URL in a browser, the user should click on the main dashboard tab after which the system should display visualizations and statistics about the air quality for the current location.

4.

→ Name

- Compare the air quality of two cities/states
- Menu Compare

→ Actors

- End user

→ Goal description

- The end goal is to compare the air quality of two cities/states in India

→ Reference to requirements

- Backward traceability

→ Pre-conditions

- Access to internet and internet enabled device(s).

→ Description

– Upon entering the URL in a browser, the user should click on the compare tab. After that, they should enter the names of the cities/states they want to compare. The system should display the relevant statistics and visualizations.

5.

→ Name

- See visualizations for a city for this month
- Menu Search Visualizations Add filter

→ Actors

- End user

→ Goal description

- The end goal is to see the trend that air quality follows for a time period (here, a month) in a particular city (/state).

→ Pre-conditions

- Access to internet and internet enabled device(s).

→ Description

 Upon entering the URL in a browser, the user should search for the required city/state. After landing on the city dashboard, they should add a filter for the time period in the required visualization. The system should display the relevant statistics and visualizations. 6.

→ Name

- See health hazards and respective precautions that can be taken in an area
- Menu Search Dos and don'ts

→ Actors

- End user

→ Goal description

– The end goal is to see what health hazards exist in an area due to air quality and what precautions can be taken.

→ Pre-conditions

- Access to internet and internet enabled device(s).

→ Description

– Upon entering the URL in a browser, the user should search for the required city/state. After landing on the city dashboard, they should go to the dos and don'ts section. The system should display the relevant dos and don'ts.

7.

→ Name

- See the top polluted states in India
- Menu Main dashboard

→ Actors

- End user

→ Goal description

- The end goal is to see which states are the most polluted in India.

→ Pre-conditions

- Access to internet and internet enabled device(s).

→ Description

– Upon entering the URL in a browser, the user should go to the main dashboard tab. The system should display the relevant visualizations and maps.

8.

→ Name

- See the air quality of metro cities in India
- Menu Main dashboard Top Metro Cities

→ Actors

- End user

→ Goal description

- The end goal is to see the air quality for the metropolitan cities.

→ Pre-conditions

- Access to internet and internet enabled device(s).

→ Description

– Upon entering the URL in a browser, the user should go to the main dashboard . After landing on the main dashboard, the system should display the relevant visualizations.