Environmental Monitoring and Prediction System:
Problem Statement and Requirements

SWENG 837

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Environmental Monitoring and Prediction System: Create a system that collects environmental data (air quality, water quality, deforestation) to monitor changes and predict future environmental conditions.

Business Requirements
Problem

Users want to know the status of the environment when they want to.

Users want to be more informed of the various environmental impact that is happening around them.

Users can use this information to determine where to volunteer, where to travel and visit, and where to move.

Business Requirements
Problem

The system aims to solve the users need to know what the environmental conditions are

If the user wants to subscribe to predictions and alerts, the system will allow the user to do so.

The system will aim to help users access environmental conditions based on already established probes in the air, water, and forests.

Business Requirements
Functional

The system functionalities will be:
- Air Quality
- Water Quality
- Forest Quality
- Predictions
- Ability to subscribe
- Ability to register as a user

Business Requirements
Target Users

The target users will be:

- Young people: ages 15 – 25, male and female

	- The youth has a trend of caring for the environment and at that age they are able to be more proactive and this will help them to advocate for the environment.

Business Requirements
Target Users

The target users will be:

- People who travel: ages 25 – 35, male and female

- People who travel are concerned about their health and safety, as well as their ability to make the most out of their travel experience. This will help them make informed decisions as to where to travel.

Business Requirements
Target Users

The target users will be:

- People looking to buy homes or move: ages 35 – 50, male and female

      - People who are looking to move are looking to see if where they are moving to is a good location. Environmental factors are of concern, as they may not enjoy moving to a place where there are major environmental issues. Often, if they have kids or plan on having kids, they want a good environment.

Business Requirements
Business Goals

The system shall be able to give users a quick response to the information they request.

The system shall be able to generate new registered users and subscribers

The system shall have a clean and easy to use interface to appeal to a large market