The purpose of a use case diagram is to demonstrate the different ways that a user can interact with a system. It is a visual representation of the interactions between actors, users or external systems, and a system. It is used to show functionality of the system from a user point of view. In this case, a user can either be a registered user or a guest. Both can access air quality, water quality, forest quality, and check predictions. A registered user can subscribe to updates. A guest user can choose to create an account. The database stores login information from the user and subscription status. The database stores air quality, water quality, forest quality, and predictions.