Component diagrams are used to model the physical aspects of systems and focuses on essential elements. In my component diagram, the data which is the username and password, flow into the component through the ports on the right hand side. The option to continue as a guest is also on the right hand side. The username and password is converted into a format that the internal components can use. The data passes through the user database for validation.

After validation, it then flows through the user, as well as the guest option. This is because both registered users and guests can access similar functions of the system.

After that, the user can now look into the environmental part through the environmental accessor. This takes the location that the user puts in. The location is validated. From there, it can grab the air quality through the air quality accessor. The air quality is linked to the air probe where it grabs the data. It can also see the water quality through the water quality accessor. The water quality is linked to the water probe where it grabs the data. It can also see the forest quality through the forest quality accessor. The forest quality is linked to the forest probe where it grabs the data. It can also see the prediction through the prediction accessor. The prediction is linked to the prediction generator where it grabs the data.

The prediction gets prediction details, and the output on the left hand side is the prediction. The forest probe gets forest quality details, and the output on the left hand side is the forest quality. The air probe gets air quality details, and the output on the left hand side is the air quality. The water probe gets water quality details, and the output on the left hand side is the water quality.