

Nominal Use of Application

A description of a nominal (error free) sequence of events using the system

Scenario 1

A student, a teacher, or an enthusiast wants to get some erosion information about a slope they are interested in to view how the variable conditions affect the erosion rates. The user then goes out into their desired area to test so that they can gather information about the area's slope, length of the slope, how much cover there is, and soil type.

After data is collected, the app is opened within their mobile device and then the data is entered into fields in the default view which match the data collected earlier. The user's location is grabbed by the application and then a query is made once the user is happy with the information input and submits it.

The user is then redirected to a new page that displays their inputs as well as the correlating erosion probability data and the annual average erosion and precipitation data. Now the user has the original slope data, but they are interested in how changing the cover could affect the erosion data provided by the model. Within the results view the user can change the cover percentage which will rerun the query.

Next the user will be presented with a view where they can comparisons between the two queries. With this, the user is able to visualize the impact of that the cover percentage has on the erosion in their area that they tested.

Scenario 2

A BAER team member is concerned about a slope and wants relevant erosion data. They want to make sure that the area that they're located in is within a safe realm with the current conditions it is in. They gather the slope, length of slope, cover percentage, and soil type. This information is put into default application view fields and the query is ran.

They are directed to the results page where they can see erosion probability data for the slope as well the mean average erosion and precipitation data. This view also shows their inputs for the original query.