CS 440 Meeting Minutes

Group 24 Date: November 08, 2020 Time: 19:00 Duration: 30mins

Present, on time: Milind Kurma, Luke Kim, Punit Malpani, Sharmisha Parvathaneni

Present, not on time: None

Absent: None

Synopsis:

We discussed and decided on small functionality improvements to be introduced in our web program as suggested in the second coding project demonstration by the TA. We planned and distributed our work for testing and inspection of our project. Keeping in mind the principle of white box, black box, and grey box testing as learned in class we decided to try to apply them in the remaining sprints.

Recent Accomplishments:

Milind came up with a demo supervised ML model which forms the base to the Plant doctor feature in our web app that gives the health status of the plant based on the input leaf image. The demo also included code on how to save the trained ML model weights in a .h5 file and model details in a .json file.

Luke worked on the frontend and the user-interface. He successfully delivered frontend code for the home, about, basic search and advance search pages.

Punit and Sharmisha focused on the backend and integration of the complete application. Punit handled the backend source code for basic search and advance search. He trained the ML model for the plant doctor feature and created class models to save user input images in the database.

Sharmisha worked on the plant doctor feature and completed the portion for passing user input image through the trained ML model and fetching plant health condition result.

Current Individual Activities:

Luke will work on the testing the user signup page, user login page, and URL security.

Punit will make the small modifications in the advance search query and also start testing and inspection of the basic search and advance search pages.

Milind & Sharmisha will work on testing and inspection of the plant health prediction feature. Sharmisha will work on the user input image refinement and Milind will test the ml model prediction results.

Individual Action Items:

Sharmisha: Refine user input image in terms of image height, width, and file size. Resize input image and restrict uploading file size greater than a certain limit.

Luke: Revise code for user signup page and make sure details entered by user are valid. Also, make sure user does not get access to any hidden information by modifying URL.

Punit: Change source code for advance search to include range of sensor values instead of one value. Test out basic and advance search thoroughly for corner cases.

Milind: Work on testing the ML model and make sure prediction results are accurate.