## H.P.P

## (Hybrid Portfolio Project)

An hybrid application with a docker network consisting of three docker containers:

The first container will hold the Vue client side UI.

The second container will hold the Go API, Tensorflow model(s) and file storage for images uploaded by the user.

The third container will hold the Mysql database for all user data from predictions to mapping of the files back to the storage container.

User uses the H.P.P Via the Vue User Interface

Based on the user actions request will be made from the UI to the Go API container of which holds the API

Image is upload into the Go container, at which point it is passed via the GO Client call to the Flask API. Within the Flask API the AI model and the picture is downloaded short term for prediction classification.

Model makes a prediction and the Flask API returns the string prediction back to the Go API for storing in the MySQL container and

displaying to the user.

Creating of Users.

Making predictions based on images, then returning the prediction back to the user as well as storing the prediction for the users later access. The images will be stored with the Storage folder and mapped via the predictions table back to the storage folder.

