Fish Larva Object Detection Project

DSA4266

Group 2

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API documentation

The API was created using a package in python known as FastAPI. FastAPI provides an automatic interactive API documentation (provided by Swagger UI). The interactive API document can be retrieved by the following:

To deploy the backend API, change to the following directory:
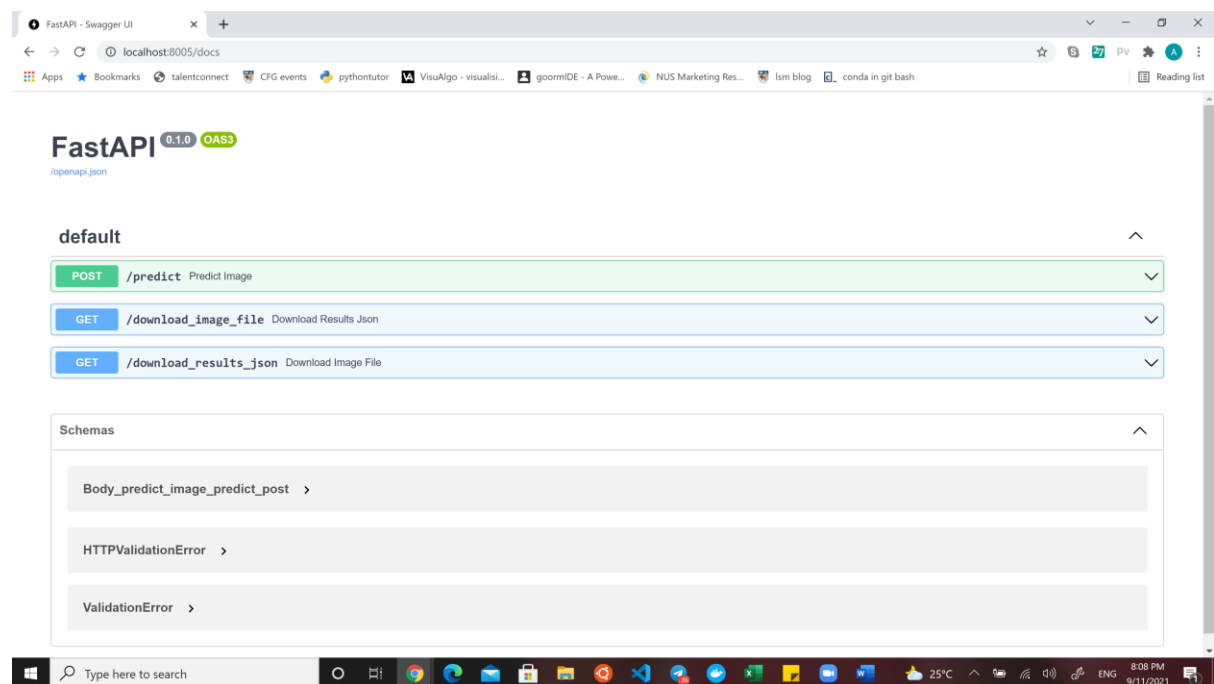```
cd src
cd api_ui
cd Backend
```

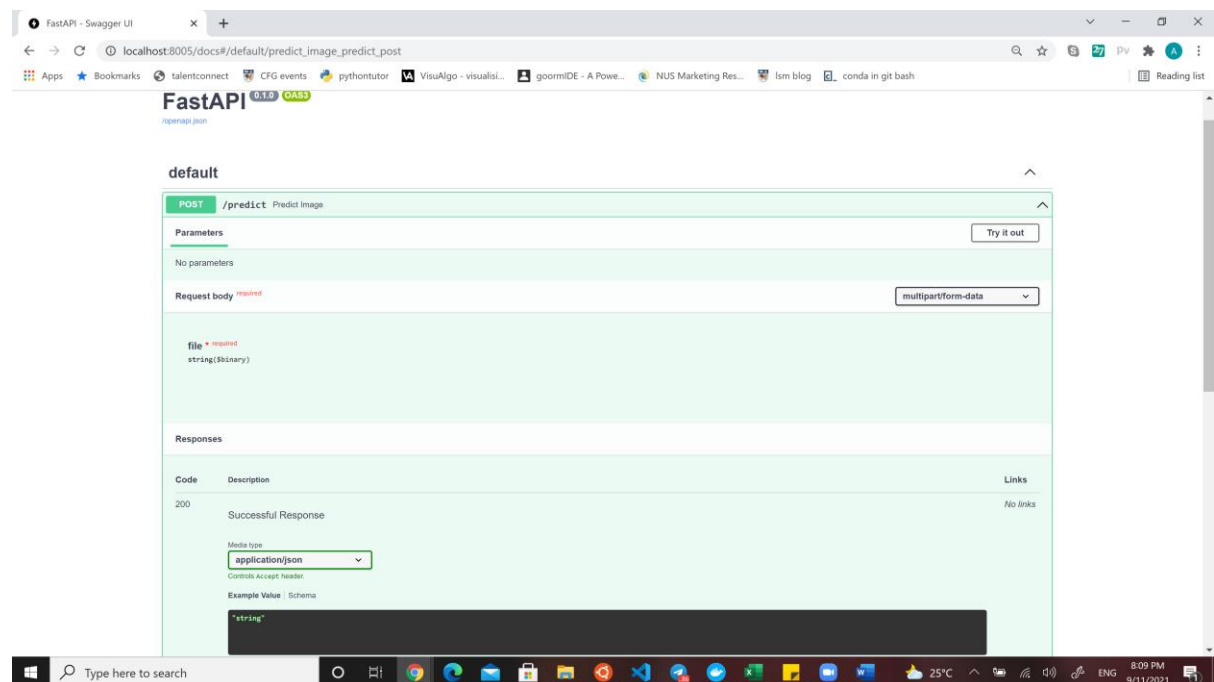Run the application:
```
python api.py
```

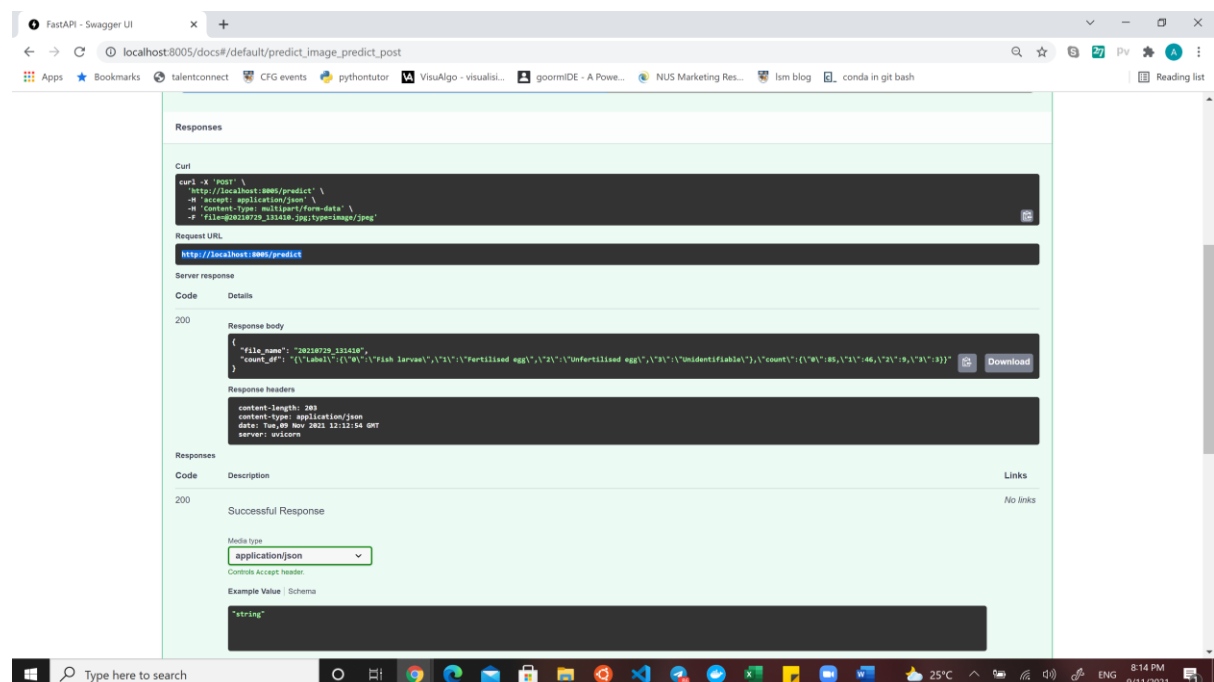To view API documentation, visit this link in your browser:
http://localhost:8005/docs

The following are screenshots attached from the interactive UI
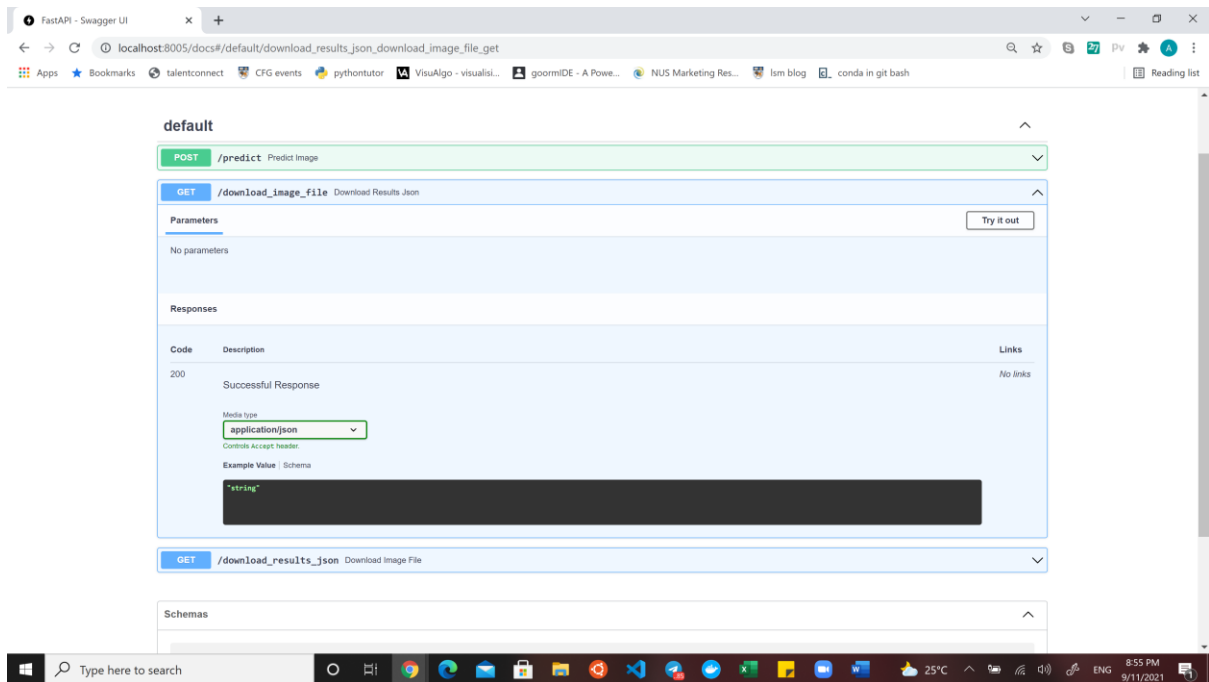
**Click on the dropdown for /predict:**



Click Try it out and upload an image in jpg format and click Execute. After the completion of the algorithm, the file name of the image and the dataframe for the counts will be displayed as shown below.
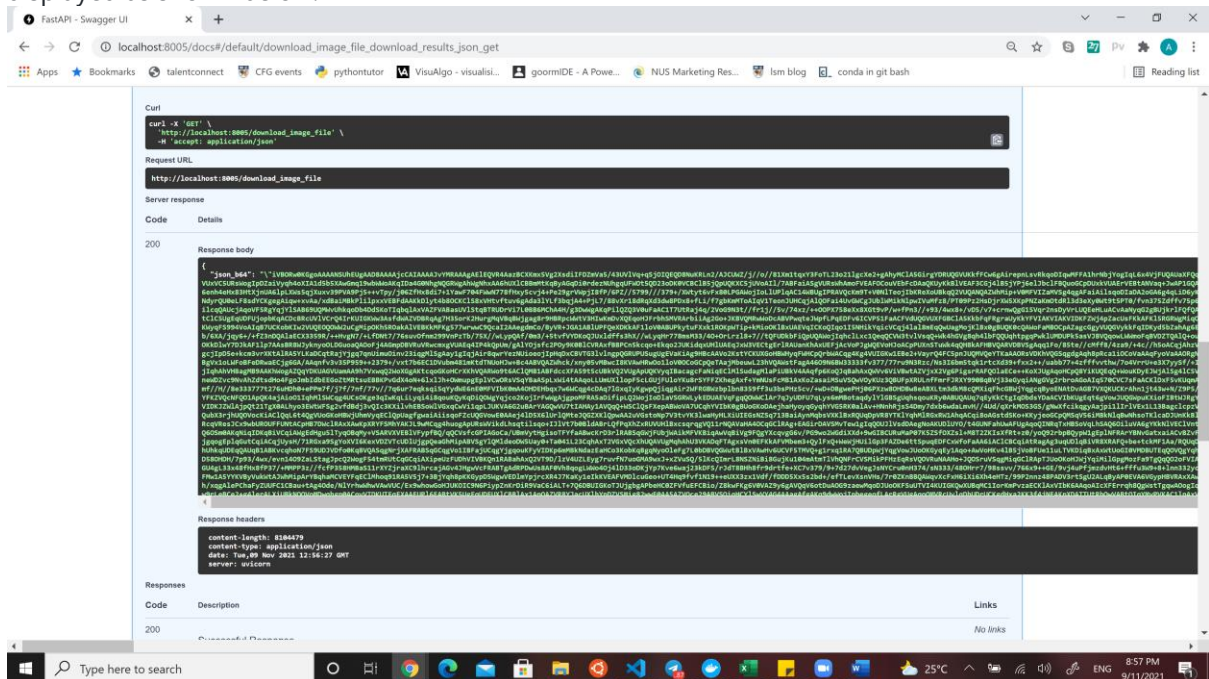


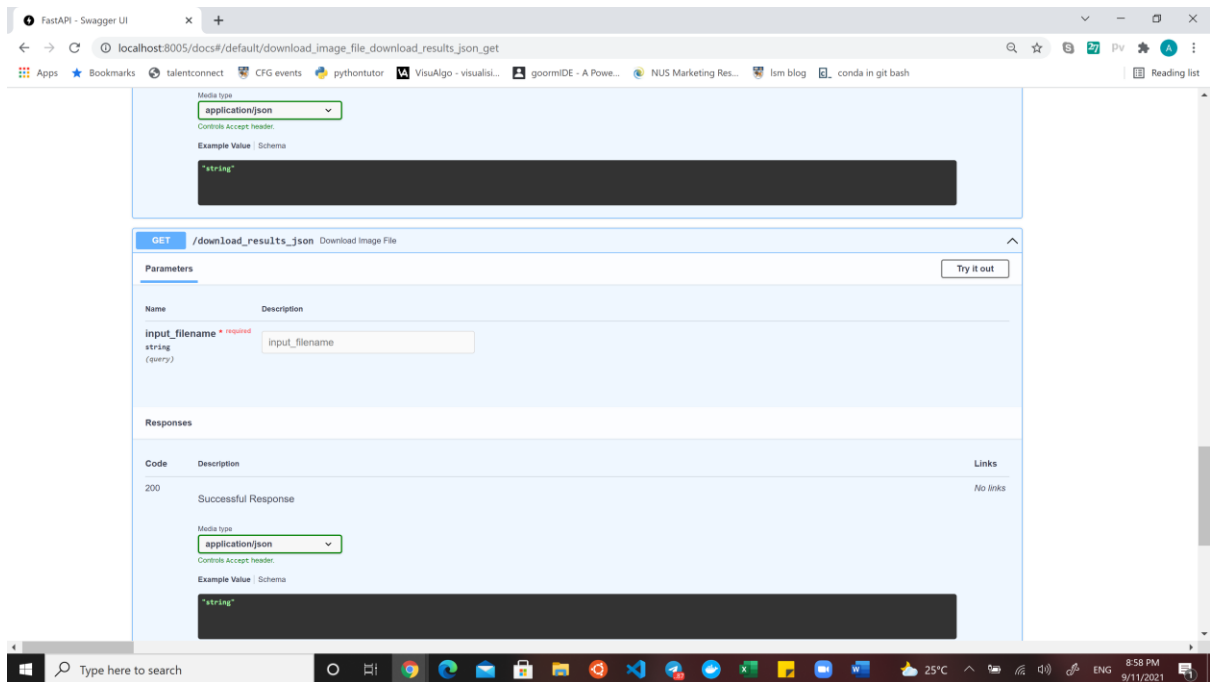Note: All uploaded data are stored in browser memory.

**Click on the dropdown for /download_image_file:**

Click Try it out and click Execute. After the completion of the algorithm, the json_b64 format will be displayed as shown below.



**Click on the dropdown for /download_results_json:**

Click Try it out and input the filename whose name was returned from the first function and click Execute. After the completion of the algorithm, the json_b64 format will be displayed as shown below.