

Fish Larva Object Detection Project

DSA4266

Group 2

Team members: Arushi Gupta, Lee Pai Joo Yvelle, Pei Zhi Qian Justin, Tan Dexuan Max

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
```

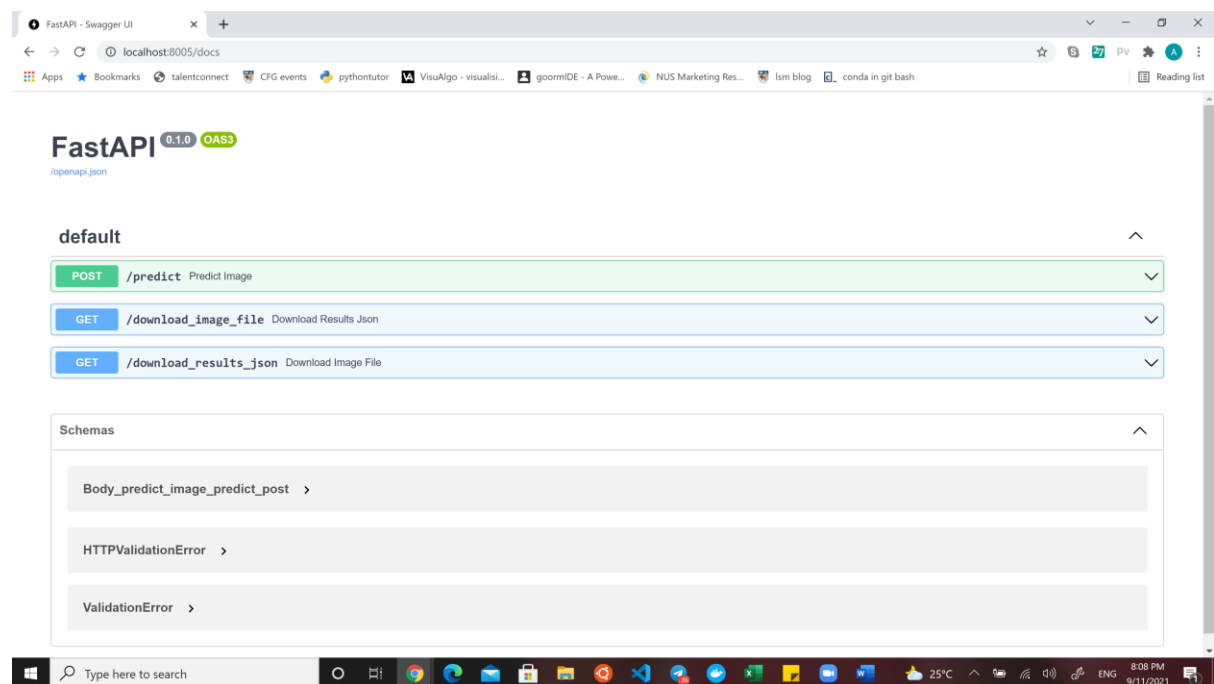
Run the application:

```
python api.py
```

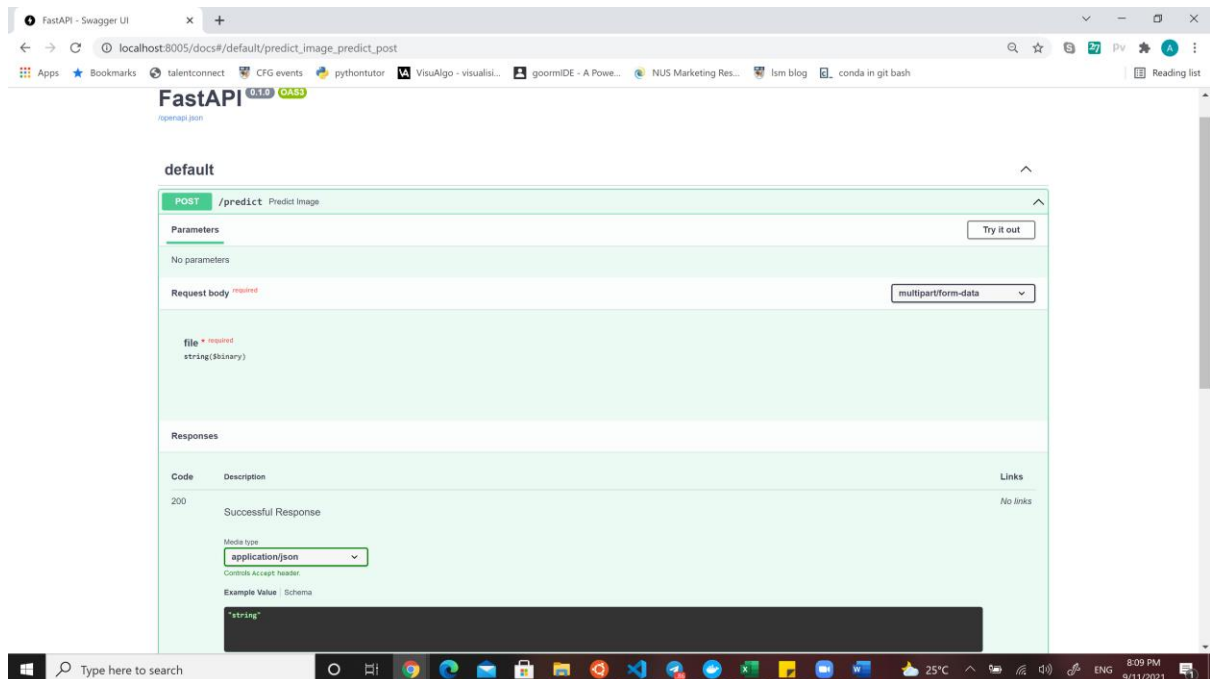
To view API documentation, visit this link in your browser:

<http://localhost:8005/docs>

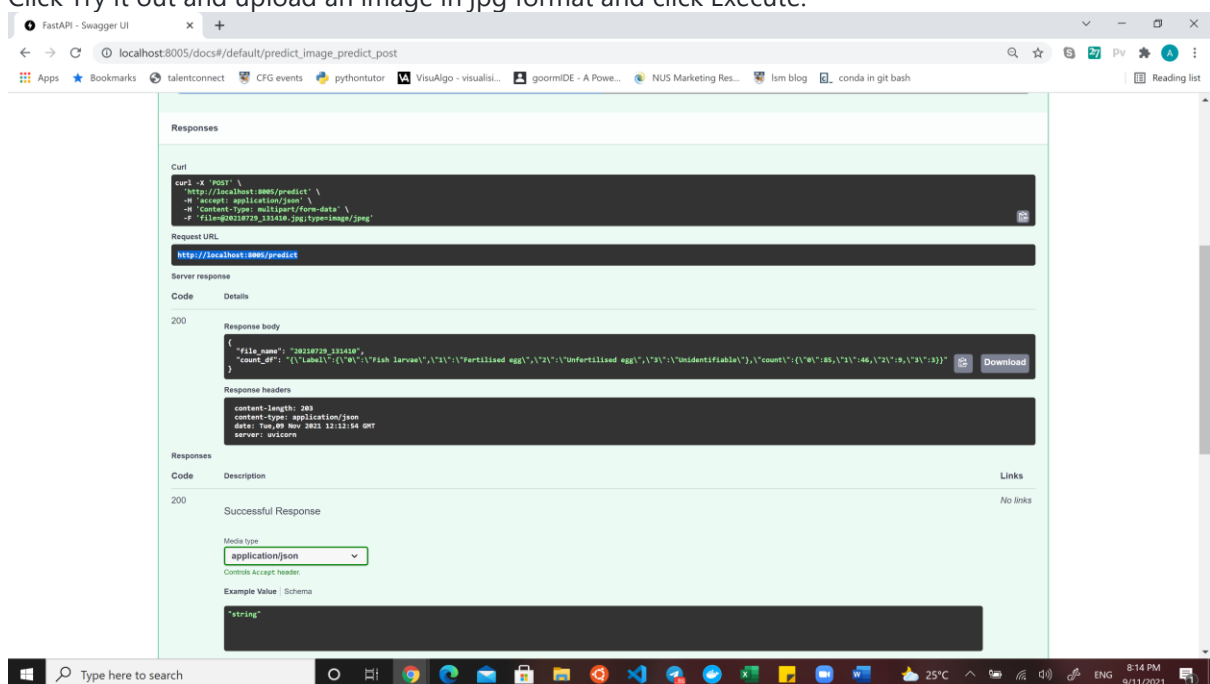
The following are screenshots attached from the interactive UI



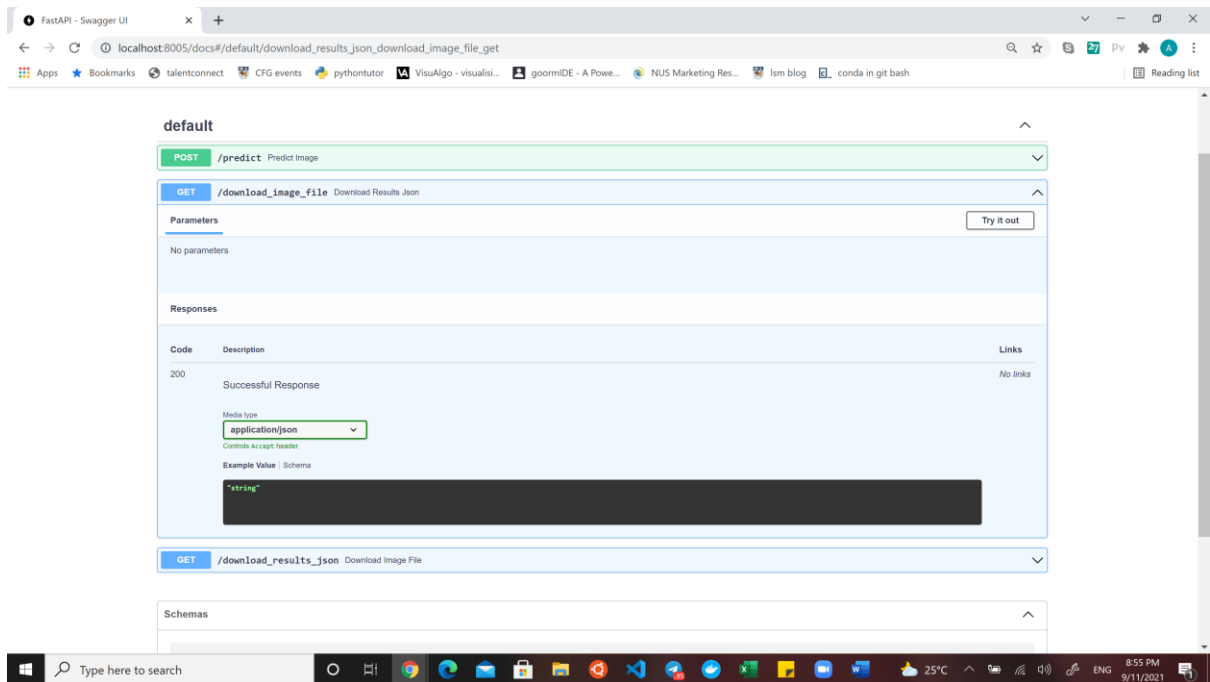
Click on the dropdown for /predict:



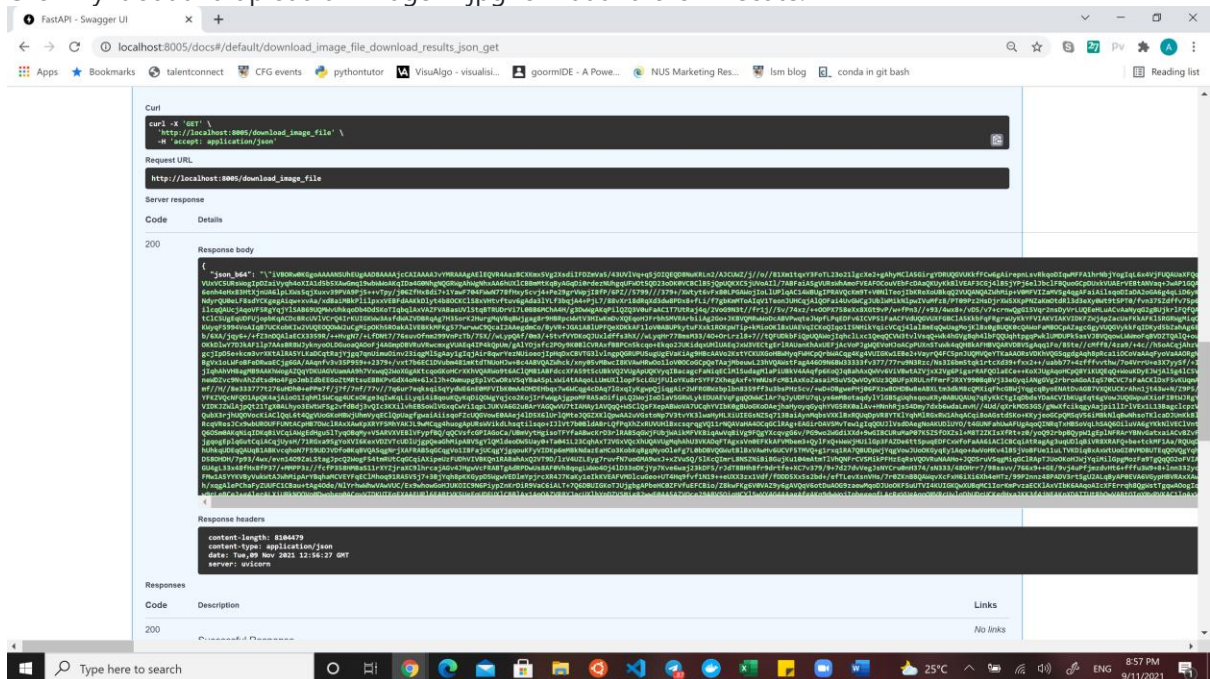
Click Try it out and upload an image in jpg format and click Execute:



Click on the dropdown for /download_image_file:



Click Try it out and upload an image in jpg format and click Execute:



Click on the dropdown for /download_results_json:

FastAPI - Swagger UI

localhost:8005/docs#/default/download_image_file_download_results_json.get

Media type: application/json

Controls: Accept header

Example Value: Schema

string

GET /download_results_json Download Image File

Parameters

Name: input_filename Description: string (query) Required

Responses

Code: 200 Description: Successful Response

Media type: application/json

Controls: Accept header

Example Value: Schema

string

Try it out

Click Try it out and input the filename and click Execute:

FastAPI - Swagger UI

localhost:8005/docs#/default/download_image_file_download_results_json.get

curl -X GET -H "accept: application/json" "http://localhost:8005/download_results_json?input_filename=2821999_1906511"

Request URL: http://localhost:8005/download_results_json?input_filename=2821999_1906511

Server response

Code: 200

Response body

Response headers

content-length: 2114591
content-type: application/json
date: Tue, 09 Nov 2021 13:59:47 GMT
server: uvicorn