

## Documentation for the Fruit Quality Grading Application

The fruit quality grading application developed by Bello Oluwatomisin is called the more web application. It is a 2-tier application developed using the following stack

- Python - The Python programming language is used to build the machine learning model and the backend API server
- Javascript - The Javascript programming language is used to build the frontend server
- Tailwindcss - Design the interface of the frontend server

### Morewebapp

Morewebapp is a full-stack application built for classifying and grading the quality of banana, oranges and apples.

### TechStack

- Python
- Javascript
- TailwindCss

### GitHub Link

- <https://github.com/t-bello7/more>

## How to Setup

### Prerequisite

The following tools need to be installed on your machine to run the application

- Python - You can go [here](<https://www.python.org/downloads/>) to download and install
- NodeJS - You can go [here](<https://nodejs.org/en/download/current>) to download and install
- Anaconda - You can go [here](<https://www.anaconda.com/products/individual>) to download and install
- Yarn package manager - You can go [here](<https://yarnpkg.com/getting-started/install>) on how to install

**Get your computer's IP address by running the command below on your terminal.**

- On Windows

```
...
```

```
ifconfig | findstr IPv4
```

```
...
```

- On Linux

```
...
```

```
hostname -I | awk '{print $1}'
```

```
...
```

- On Mac

```
...
```

```
ipconfig | grep "inet" | grep -v 127.0.0.1 | awk '{print $2}'
```

```
...
```

## Start the backend server

- From the root directory of the folder change directory in the terminal to the backend folder

```
...
```

```
cd backend
```

```
...
```

- Create a virtual environment with the Python 3.7 version

```
...
```

```
conda create -n <your_env_name> python=3.7.x
```

```
...
```

- If you already created a virtual environment you can start the virtual environment with the command

```
...
```

```
conda activate <your_env_name>
```

```
...
```

- Install project dependencies

```
...
```

```
pip install -r requirements.txt
```

```
...
```

- Replace the host address in the app.py file with your computers ip address

```
...
```

```
app.run(debug=True, host='<your_computer_ip_address>')
```

```
...
```

- Run the command to start the server

```
...
```

```
python app.py
```

```
...
```

## Start the frontend server

- From the root directory of the folder change directory to the frontend

...

cd frontend

...

- Install project dependencies

...

yarn install

...

- Replace the host address in the hooks/uploadHook.js file with your computers ip address

...

```
const response = await axios.post(`http://<your_computer_ip_address>${url}`, formData, {
```

...

- Run the command to start the server

...

yarn dev

...

- Go to the URL - <http://localhost:5137> to view the page