



**MONASH**  
University

MALAYSIA

# **FIT3162**

## **End User and Technical Guide**

**Project Title: Classification of Retrieved Documents for  
User Satisfaction**

**Team MA\_A\_2**

**Team Members:**

Lim Jun Qing, 30029937

Alfons Fernaldy, 30127831

Chang Yin Cheng, 29792029

**Supervisor: Dr. Prabha Rajagopal**

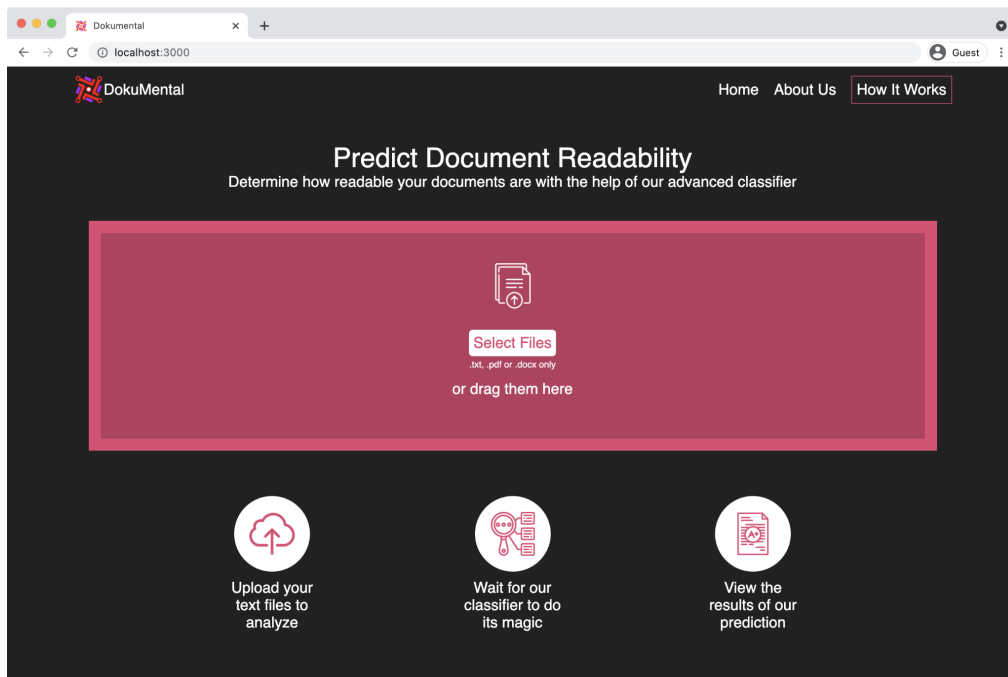
# Contents

<b>1 Basic End User Guide</b>	<b>3</b>
<b>2 Technical User Guide</b>	<b>6</b>
2.1 Hardware Requirements	6
2.2 Software Requirements	6
2.3 Setup	7
2.3.1 Frontend Setup	7
2.3.2 Backend Setup	8
2.4 Troubleshooting	9

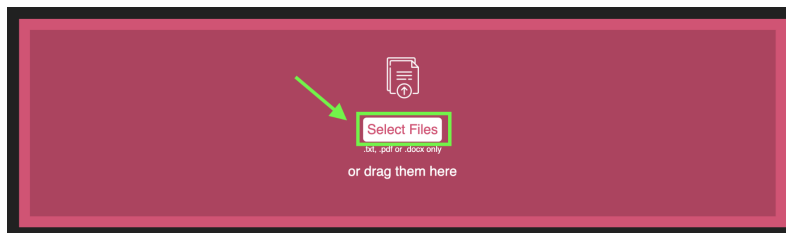
# 1 Basic End User Guide

This basic end user guide assumes that all setup were performed according to the [Technical User Guide](#) before the application can be used.

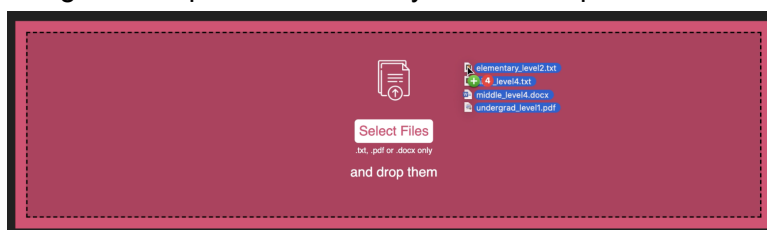
1. Open any web browser
2. Navigate to the app (hosted locally with React at `localhost:3000`)



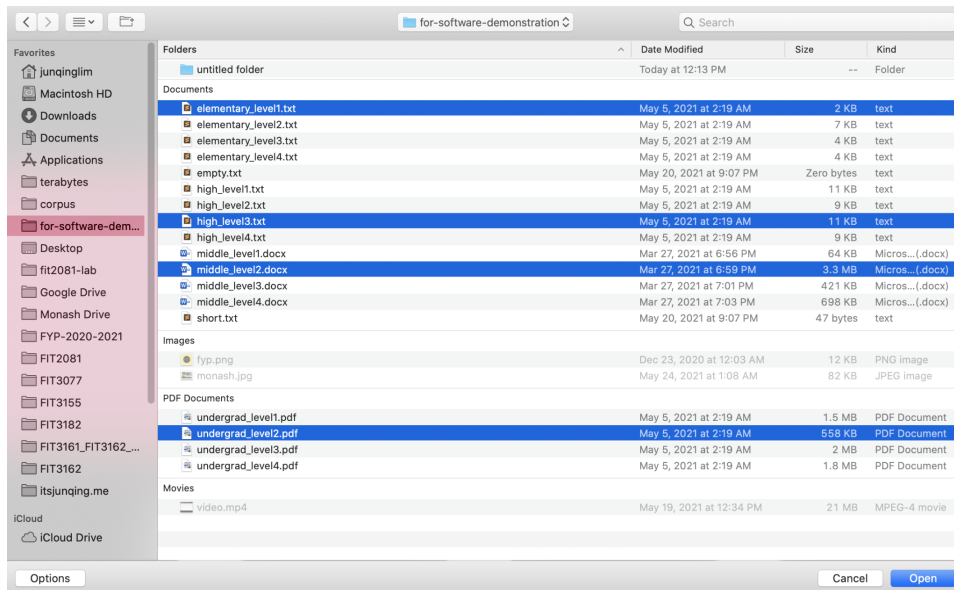
3. Select files by:
  - a. Choosing the “Select Files” button, or



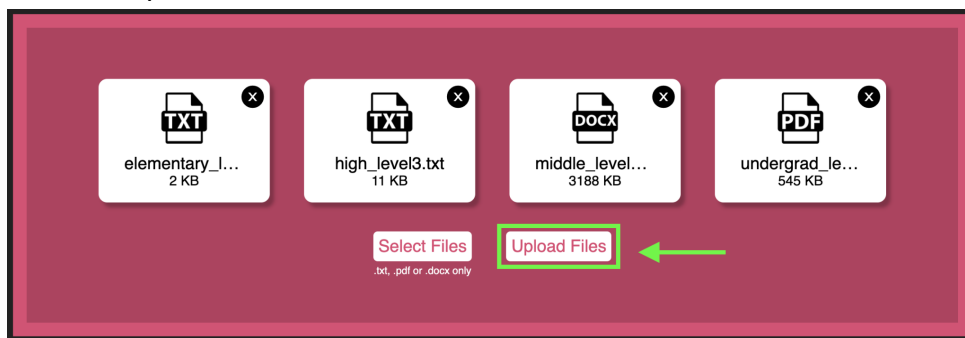
- b. “Drag and Drop” the files directly into the dropzone



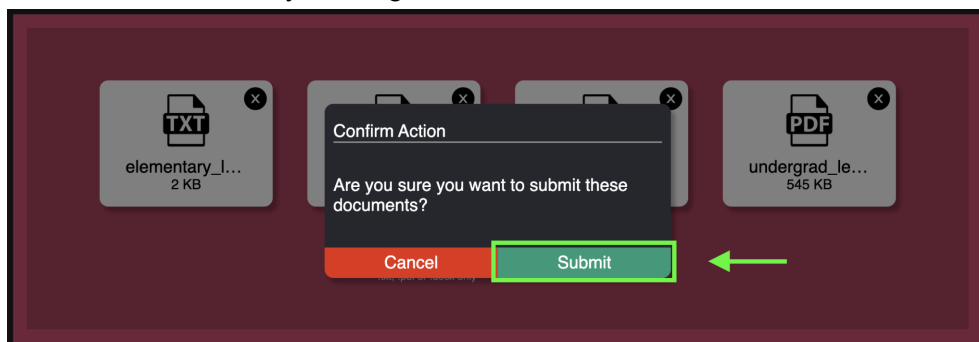
4. Select the file accordingly (following 3(a))



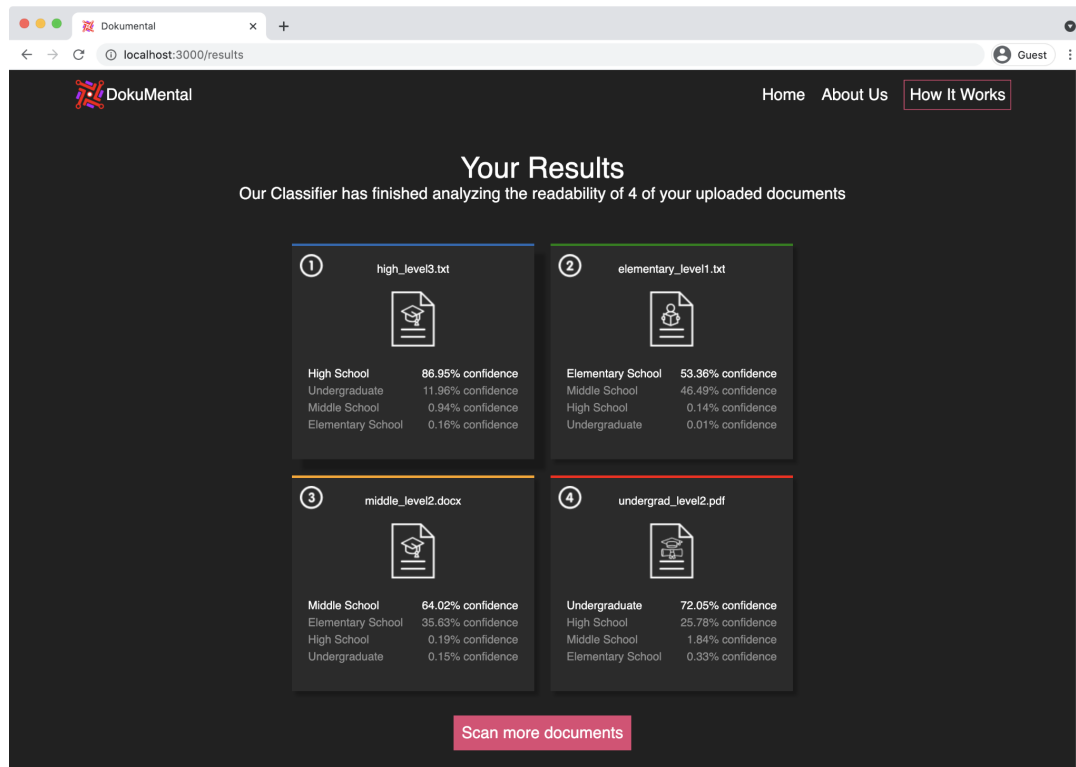
5. Click on “Upload Files”



6. Confirm submission by clicking “Submit”



7. User will be automatically redirected to the results page with its readability levels



**Notes:**

- At most 10 documents can be uploaded at once
- Only pdf, txt and docx can be uploaded
- Same document cannot be uploaded twice

*For further information on its limitations and constraints, kindly refer to the Test Report.*

## 2 Technical User Guide

The requirements are the recommended specifications to be applied to any computer performing pre-processing, processing and evaluation.

**Disclaimer:** The following installation setup is tested and verified on Unix-based OS (MacOS/Ubuntu platform).

### 2.1 Hardware Requirements

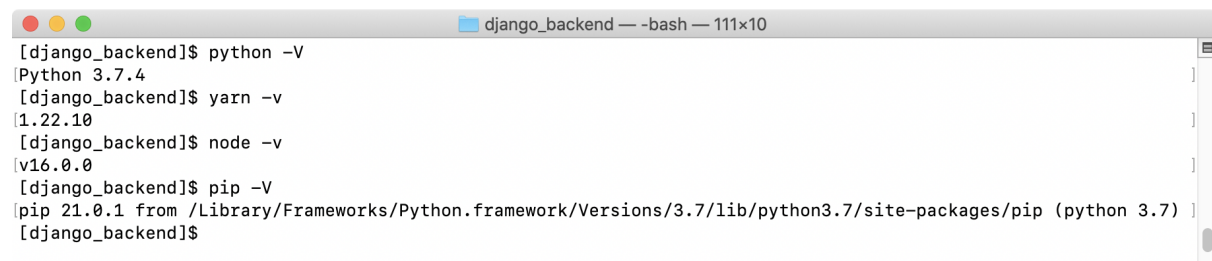
Hardware	Specification
Hard Drive / Solid State	500GB of HDD / 128GB of SSD
CPU	Intel i5 5th-Generation and above
RAM	8 GB

### 2.2 Software Requirements

The software specified here is required to be installed before setting up the environment and installing the required packages (which will be shown in the following sections).

1. [Python](#)  
Recommended version: 3.7.\*
2. [Yarn](#)  
Recommended version: 1.22.\*
3. [Node.JS](#)  
Recommended version: v16.\*.\*
4. [Pip](#)  
Recommended version: 21.\*.\*

A screenshot is shown below for illustration purposes.



```
django_backend — bash — 111x10
[django_backend]$ python -V
Python 3.7.4
[django_backend]$ yarn -v
1.22.10
[django_backend]$ node -v
v16.0.0
[django_backend]$ pip -V
pip 21.0.1 from /Library/Frameworks/Python.framework/Versions/3.7/lib/python3.7/site-packages/pip (python 3.7)
[django_backend]$
```

## 2.3 Setup

Once the software is installed as above, the frontend and backend can then be set up accordingly.

### 2.3.1 Frontend Setup

1. Download the `react_frontend` source code here:

[https://drive.google.com/drive/folders/1TC-dZif4MPXXm4G2hBys\\_JDyMlxjSedO?usp=sharing](https://drive.google.com/drive/folders/1TC-dZif4MPXXm4G2hBys_JDyMlxjSedO?usp=sharing)

2. Enter the `react_frontend` directory.

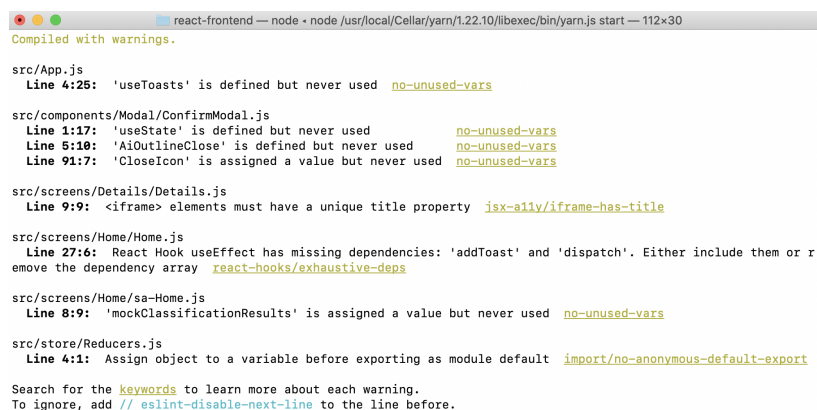
```
cd react_frontend/
```

3. Install required dependencies.

```
yarn
```

4. Launch the frontend web.

```
yarn start
```



```
react_frontend — node • node /usr/local/Cellar/yarn/1.22.10/libexec/bin/yarn.js start — 112x30
Compiled with warnings.

src/App.js
  Line 4:25:  'useToasts' is defined but never used  no-unused-vars

src/components/Modal/ConfirmModal.js
  Line 1:17:  'useState' is defined but never used          no-unused-vars
  Line 5:10:  'AiOutlineClose' is defined but never used     no-unused-vars
  Line 9:1:   'CloseIcon' is assigned a value but never used no-unused-vars

src/screens/Details/Details.js
  Line 9:9:  <iframe> elements must have a unique title property  jsx-a11y/iframe-has-title

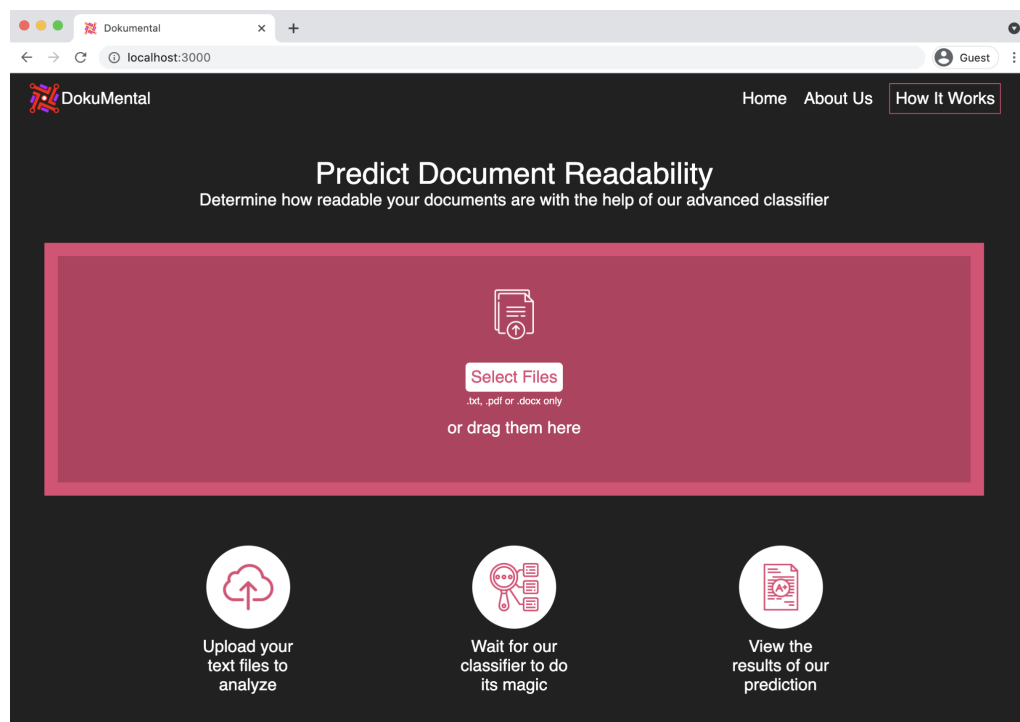
src/screens/Home/Home.js
  Line 27:6:  React Hook useEffect has missing dependencies: 'addToast' and 'dispatch'. Either include them or remove the dependency array  react-hooks/exhaustive-deps

src/screens/Home/sa-Home.js
  Line 8:9:  'mockClassificationResults' is assigned a value but never used  no-unused-vars

src/store/Reducers.js
  Line 4:1:  Assign object to a variable before exporting as module default  import/no-anonymous-default-export

Search for the keywords to learn more about each warning.
To ignore, add // eslint-disable-next-line to the line before.
```

This launches the web app on localhost:3000



## 2.3.2 Backend Setup

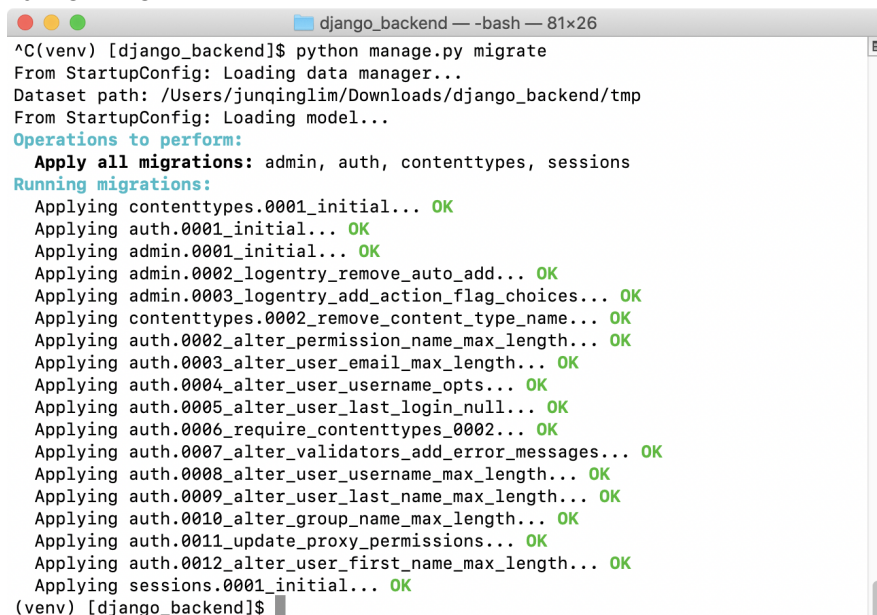
1. Download the `django_backend` source code here:  
<https://drive.google.com/drive/folders/1TC-dZif4MPXXm4G2hBysJDyMlxjSedO?usp=sharing>
2. Enter the `django_backend` directory.  
`cd django_backend/`
3. Create the virtual environment manually.  
`python3 -m venv venv/`
4. Activate the virtual environment (for Unix-based).  
`source venv/bin/activate`
5. Install the required dependencies.  
`pip install -r requirements.txt`

*\*Note: This file of `requirements.txt` contains all the necessary packages (including its dependencies) required to launch the application successfully. If there are dependency conflicts, the system admin may be required to manually resolve them.*

*It is strongly encouraged for the software to be installed based on the [recommended versions](#) to prevent errors from arising.*

*To see the output of installation, please refer to the `output_installation.txt` in the same folder of `django_backend/`.*

6. Perform Django migrations.

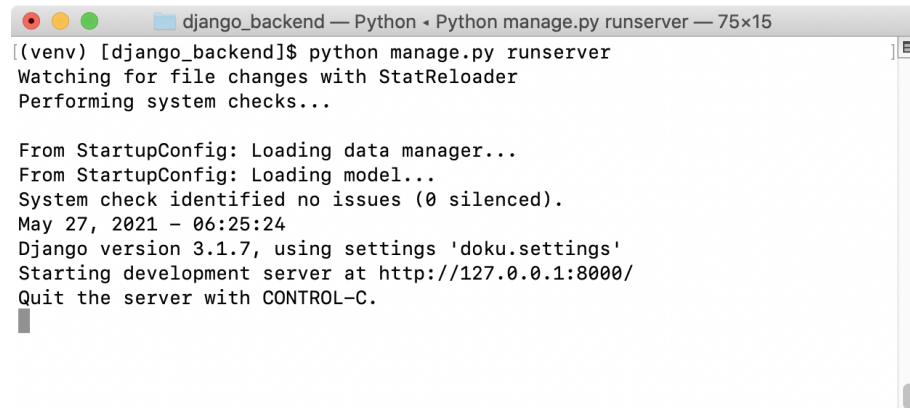
A terminal window titled 'django\_backend -- bash -- 81x26' showing the output of the command 'python manage.py migrate'. The output indicates that migrations for 'admin', 'auth', 'contenttypes', and 'sessions' are being applied. Each migration step is followed by 'OK' in green text. The terminal shows the following sequence of operations: Applying contenttypes.0001\_initial... OK, Applying auth.0001\_initial... OK, Applying admin.0001\_initial... OK, Applying admin.0002\_logentry\_remove\_auto\_add... OK, Applying admin.0003\_logentry\_add\_action\_flag\_choices... OK, Applying contenttypes.0002\_remove\_content\_type\_name... OK, Applying auth.0002\_alter\_permission\_name\_max\_length... OK, Applying auth.0003\_alter\_user\_email\_max\_length... OK, Applying auth.0004\_alter\_user\_username\_opts... OK, Applying auth.0005\_alter\_user\_last\_login\_null... OK, Applying auth.0006\_require\_contenttypes\_0002... OK, Applying auth.0007\_alter\_validators\_add\_error\_messages... OK, Applying auth.0008\_alter\_user\_username\_max\_length... OK, Applying auth.0009\_alter\_user\_last\_name\_max\_length... OK, Applying auth.0010\_alter\_group\_name\_max\_length... OK, Applying auth.0011\_update\_proxy\_permissions... OK, Applying auth.0012\_alter\_user\_first\_name\_max\_length... OK, Applying sessions.0001\_initial... OK. The prompt at the bottom is '(venv) [django\_backend]\$'.

*\*Note: this migration is for Django setup only, our web application does not use any of the migrations.*



## 7. Launch the server.

```
python manage.py runserver
```



```
django_backend — Python • Python manage.py runserver — 75x15
[(venv) [django_backend]$ python manage.py runserver
Watching for file changes with StatReloader
Performing system checks...

From StartupConfig: Loading data manager...
From StartupConfig: Loading model...
System check identified no issues (0 silenced).
May 27, 2021 - 06:25:24
Django version 3.1.7, using settings 'doku.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CONTROL-C.
```

*\*Note: The launching of the server may take some time (depending on the machine's processing power) as the server automatically starts up the connection (loading) of the classification model, to reduce the time taken required to run the model in obtaining the classification results.*

*Please wait for the line "Quit the server with CONTROL-C" to appear before moving to step 8.*

8. Navigate to the HTTP address of (localhost:3000) as per [2.3.1 Frontend Setup](#) to view the web app and begin using the web app as according to [1 Basic End User Guide](#).

## 2.4 Troubleshooting

For any troubleshooting issue on the installation, it is advised to do the following:

1. Copy the error message to Google Search
2. Look for possible resolution to debug, with the most common sources from:
  - a. Stackoverflow
  - b. Stackexchange
  - c. Github Issue

If everything else fails, contact the developers:

1. Copy the contents of the error message
2. Report the incident to [jjim0069@student.monash.edu](mailto:jjim0069@student.monash.edu) with the following details:
  - a. A description of the issue
  - b. Version of OS
  - c. Version of software from the [software requirements list](#)
  - d. Versions of the packages from the [pip installation](#) (can be found from the command `pip list`)
  - e. Details of errors with screenshots