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Set Up Guide

This is a set of instructions to set up our project

Beyond Ideas

FYP Project

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**File Directory Explanation**

**Beyond-Ideas**

* **Data for Test Cases**
  + Contains data files given by DHL
* **dist**
  + Contains files that are auto compiled, used for React.js
* **Metrics**
  + Contains our bug log and metrics
* **node\_modules**
  + Contains external modules, installed using *npm install*
* **static**
  + **js**
    - Contains React.js components – Model **View** Controller
  + **uploads**
    - Mainly used for our uploading function
  + Contains our html pages – Model **View** Controller
  + Contains our CSS
* **Test Cases**
  + Contains our test cases
* main.py – where our flask app will be run from, the main method
* controller.py – ModelView **Controller**
* model.py – **Model** View Controller
* package.json – Contains all our npm dependencies
* package-lock.json
* requirements.txt – Contains all our venv dependencies
* webpack.config – Compile React.js

**Assuming Python Version:** Python 3.6.6

**Steps to Follow – Initialisation (Only need to follow through once):**

1. **Delete your old venv folder**
2. **Open command prompt and reinstall Virtual Environment:** pip install virtualenv
3. **Creates folder:** virtualenv venv
4. **Git Clone inside venv folder:** https://github.com/Astarcorp/Beyond-Ideas.git
5. **Activate Virtual Environment:** venv\Scripts\activate
6. **Go inside Beyond-Ideas folder:** cd Beyond-Ideas\server
7. **Install Requirements:** pip install -r requirements.txt
8. **Turn on Wamp**
9. **Run Flask:** Python run.py
10. **You can access our webpage here:** http://localhost:5000/
11. **Download node.js:** <https://nodejs.org/en/> the one on the left side (LTS)
12. **Open a second command prompt**
13. **Go inside Beyond-Ideas folder:** cd Beyond-Ideas\static
14. **Install dependencies:** npm install
15. **Run auto compiler:** npm run watch

**Steps to Follow – After Initialisation (For your subsequent coding attempts):**

1. **Git pull Beyond-Ideas inside venv folder**
2. **Open command prompt**
3. **Activate Virtual Environment:** venv\Scripts\activate
4. **Go inside Beyond-Ideas folder:** cd Beyond-Ideas\server
5. **Install Requirements (optional):** pip install -r requirements.txt
6. **Turn on Wamp**
7. **Run Flask:** Python run.py
8. **Open a second command prompt**
9. **Go inside Beyond-Ideas folder:** cd Beyond-Ideas\static
10. **Install dependencies (optional):** npm install
11. **Run auto compiler:** npm run watch

**Misc Commands (for references only)**

**Creates List of Installed Packages:**

pip freeze > requirements.txt

**Check List of Installed Packages:**

pip list

**Set environment**

set FLASK\_APP=main.py

**Easier for Debugging, no need to keep shutting down flask**

set FLASK\_DEBUG=1

**Initialise your npm project**

npm init

**Compile your npm project**

npm run build

**Run your npm project**

npm start

**If no changes appear in webpage**

Use Ctrl-Shift-R

**Sublime Text**

Use Ctrl-Shift-P

**Generate documentation**

python -m pydoc -w controllerbi modelbi

**Shortcut for activating Flask and npm**

1. Right Click > New Shortcut
2. cmd /k C:\**<enter your directory here**\Desktop\venv\Scripts\activate && cd C:\ **<enter your directory here** \Desktop\venv\Beyond-Ideas\server && python run.py
3. Right Click > New Shortcut
4. cmd /k cd C:\ **<enter your directory here** \Desktop\venv\Beyond-Ideas\static && npm run watch