

Workshops

./Innovation with a mission

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1. About

1.1 Coders for Causes Workshops

This is where you can see all the materials for workshops that are presented to the volunteers of the project for each year.

If you would to know more about us, please visit our website at codersforcauses.org

1.2 Contributions

Hi! We are happy that you thought of contributing! If you have any suggestions or issues, please raise it here. I would be happy if you could provide pull requests, if you know how to do it here.

1.2.1 Structure

Folder Structure

The structure of this repo is as follows:

```
docs
                                      // Folders for documentation
             - CNAME
               \verb|contributions.md|
 3
4
             — deployment_and_automated_site_deployment.md— flavoured_markdown.md
 5
                                      // Assets
             index.md
              - writing markdown.md
10
11
         - LICENSE
                                      // MkDocs Configuration
        - mkdocs.yml
13
14
          overrides
           \sqsubseteq partials
                └─ footer.html
          README.md
16
          requirements.txt
```

1.2.2 Installation

Python



Prerequisite

You need to have Python installed to be able to use pip. There are a few ways of installing Python. You can use a package distributor like Anaconda Or you can just install Python.

Once you have installed Python, install mkdocs requirements by opening a terminal and typing:

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



i Python Environments (Optional)

however, it is good practice to use different environments for different purposes, in which case, for Anaconda, you would open a terminal and type:

```
conda create -n mkdocstutorial python conda activate mkdocstutorial
```

then enter:

```
_{
m 1} pip install -r requirements.txt
```

Docker

Just run docker-compose up , it should show the web server running at localhost: 8000

1.2.3 Commands

- mkdocs new [dir-name] Create a new project.
- mkdocs serve Start the live-reloading docs server. Very helpful when you want to take a look at the docs before deploying.
- mkdocs build Build the documentation site.
- mkdocs -h Print help message and exit.
- mkdocs gh-deploy Deploy in github pages

1.2.4 Web Documentation Configuration

For full documentation visit:

- mkdocs.org for the generic MkDocs
- PyMdown Extensions for the different extensions that are installed
- MkDocs Material for the customisation of the web server documentation.

2. 2021/2022 Summer

2.1 Coders for Causes 2021/22 Summer Workshops

This project period continues the two main projects from the winter of 2020:

- Foodbank
- WAIS

If you have not before seen the existing progress, see this video.

These two projects have their own corresponding technology stacks being used, hence will dictate the workshops that will be held.

2.1.1 Project Technology

Foodbank

Foodbank is mainly with frontend with React + NextJS + TypeScript + TailwindCSS with Firebase and Notion CMS.

WAIS

WAIS is a full-stack application with Vue and Django. It uses Docker containerisation for both development (and production in the future).

2.1.2 Workshop Recordings

The workshop recordings will be held on our youtube channel.

2.2 Setup

This contains everything you need to know about getting setup.

2.2.1 Coders for Causes Project Team

The following access you will need to have when working on the project

- Coders for Causes Official Project Organisation
 - \bullet This includes the project repositories and CFC related long-term materials
- Coders for Causes Learning Organisation
 - This includes the templates for learning as well as the demo workshops
- Discord Channel for Project and exclusive Workshops

2.2.2 Developer Tools

These are the following tools that you need:

Code Editor: VS CodeVersion Control: GitInterpreter: Nodejs

• Custom Package Manager: Yarn
• Interpreter (for WAIS): Python

• Containerisation (for WAIS): Docker

Optional Tools

These are tools that you may like to use, but are not required:

 \bullet GUI for Git: Gitkraken / GitHub Desktop

After these installation, seek at the OS-specific tools.

Windows

These are tools specifically for Windows:

- Virtual Machine: Vbox
 - You need this if you have some trouble with windows



Warning for Windows Users

Legit, among all the OS, you will have the most frustrating time as a developer in windows (unless you're doing C#)



6 Wanna have a better developer experience

You have a couple of options:

- Using WSL
- Dual Booting
- Virtual Machines

The recommended OS to try is Ubuntu-based Linux. My personal favourite is PopOS.

Linux

These are installation specific to Linux:

- Docker Post Install
 - Lots of user forget this documentation

3. 2021 Winter

3.1 Coders for Causes 2021 Winter Workshops

This project period there are two main projects:

- Foodbank
- WAIS

If you have not before seen the existing progress, see this video.

These two projects have their own corresponding technology stacks being used, hence will dictate the workshops that will be held.

3.1.1 Project Technology

Foodbank

Foodbank is mainly with frontend with React + TailwindCSS with Firebase and Notion CMS.

WAIS

WAIS is a full-stack application with Vue and Django. It uses Docker containerisation for both development (and production in the future).

3.1.2 Where are the materials?

This website has only been created prior to 2021/22 Summer workshops. However, you can find the videos in our Youtube channel, and workshops slides in google drive.