

# App Developer Guide

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## Setting up from Scratch

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There are good tutorial on Digital Ocean for setting up on Ubuntu from scratch. Following are links for different Ubuntu LTS version

1. [Setup for Ubuntu 18.04](#)
2. [Setup for Ubuntu 20.04](#)
  1. Key difference has to do with dependencies for NumPy and Pandas, mostly difference between the two is `sh ./env/bin/pip install numpy==1.18.5 && ./env/bin/pip install pandas==0.24.2`

## Modules vs DocTypes

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Modules in ERPNext is collection of DocTypes + Reports etc.. Read more on [Discuss](#)

## Creating and Installing Custom App

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1. A common error is once app is created and installed, you need to run `bench migrate` so that DB changes are synced.

To create app you need to run following steps

```
bench new-app fafadiatech
bench --site site1.local install-app fafadiatech
```

Once this is done, we need to create a dummy commit in our newly created app

```
cd app/fafadiatech
git init
git add .
git commit -m "first commit"
cd ~/frappe-bench
bench --site site1.local migrate
bench restart
```

To verify that your app is installed search `Module Def List` on quick search and it should show your app installed

## Installing already created custom app

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Before you install app ensure `"developer_mode": 1` is set on your `site_config.json`. There are two ways to acquire your code

1. Using git clone into `frappe-bench/apps` directory
2. Copy your `tar.gz` file into `frappe-bench/apps` and extract it there

Once that has been done to install app you need to follow these instructions from [discuss forums](#)

```
./env/bin/pip install -e apps/naming_items --no-cache-dir
bench --site <sitename> install-app naming_items
```

If the any of above steps fail, you might want to include your custom app name in `apps.txt` within `sites` directory

## Adding card for your custom app

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To add card for your custom app you need two files, location of both these files need to be in `fafadiatech/fafadiatech/config`:

1. `desktop.py`
2. `module_name.py` {NOTE: If you use `white space` in your `App Title` it will be separated by `_`. So your file should be named `fafadia_tech.py` as opposed to `fafadiatech.py`}

Assuming you have a DocType called `Dummy`, contents of your `fafadia_tech.py` file would be

```
from __future__ import unicode_literals
from frappe import _

def get_data():
    return [
        {
            "label": _("Custom DocTypes"),
            "icon": "fa fa-star",
            "items": [
                {
                    "type": "doctype",
                    "name": "Dummy",
                    "description": _("List of Dummy DocTypes"),
                    "onboard": 1,
                },
            ]
        }
    ]
```

Update these files and restart bench using `bench restart` to see the card appear in `Modules` section