coursebrew

Quick-Start Developer's Guide

Skills you're going to need to develop coursebrew
Languages: Typescript, Python, SQL, HTML, CSS, (Bash?)
Libraries: Angular, Flask, Bootstrap, SQLAlchemy

Server Installation Guide
To install the Coursebrew server, you're first going to need a Linux server with either root or sudo access. There is a bash script included to install all required dependencies for coursebrew.

1. In terminal, type in
   "git clone https://git.txstate.edu/daj65/Senior-Design-Course-Scheduler"
   (Don't include the quotation marks), Hit [Enter]
2. At the prompt, enter in your Texas State git credentials
3. Navigate to coursebrew/frontend.
4. In terminal, type in "chmod u+x install.sh", Hit [Enter]

Here you should see a bunch of dependencies begin to install. If you run into any errors, make sure you have either root or sudo access to your server. Once the script finishes, there are a few edits you need to make.

1. Navigate to coursebrew/frontend/src/app and open "app.global.ts"
2. Change baseAppUrl to your server's external IP and save the file.

Now you should be all set to launch an instance of a coursebrew server. The best way to do this would be to launch both the front end and back end sessions in tmux windows, so that they don't close when you exit your terminal or remote session.

1. In terminal, type in "tmux new -s frontend", Hit [Enter]
2. In terminal, type in "tmux attach-session -t frontend"
3. Navigate to coursebrew/frontend/src/app
4. In terminal, type "ng serve --host=0.0.0.0 --port=80"
5. Hit [Ctrl + B] and then [D] to exit the session.

We've done all of this for the front end, so we should do this for the back end too.

1. In terminal, type in "`tmux new -s backend`", Hit [Enter]
2. In terminal, type in "`tmux attach-session -t backend`"
3. Navigate to `coursebrew/backend/src/sqlitedb`
4. In terminal, type "`export FLASK_APP=__init__.py`", Hit [Enter]
5. In terminal, type "`flask run --host=0.0.0.0`", Hit [Enter]
6. Hit [Ctrl + B] and then [D] to exit the session.

You should now be able to access coursebrew from any computer connected to the internet. To view coursebrew, open up a browser and type in your server's IP.

(If you cannot view anything, make sure port 80 and port 5000 are both open on your Linux Server)