Installation Guide/User Manual

Installation Guide:

To install and use our product, please follow these guidelines:

1) Make sure you have Python 3 and pip 3 installed on your computer. (use these versions whenever you run commands below)
2) Clone our github repo at: https://github.com/no-whey/grepthink into a directory on your computer.
3) Change directory into "grepthink"
4) Setup a ".env" file in this directory, two examples are provided under "/etc"
   a) Only change the path of the DATABASE_URL line. This means just change the tmp to a local path
   b) Our product will create a database file for you, you do not need to have one.
5) Install the required GrepThink dependencies from "requirements.txt"
   a) Use "pip install -r requirement.txt"
   b) If the above command doesn't work, you may have some packages already installed, or they are incompatible. If this is the case, install each separately via "pip install <package_name>"
   c) You can check to make sure everything is installed correctly by doing "pip freeze" to see all the installed packages.
6) Once all the requirements are installed, migrate all the GrepThink apps by typing "python manage.py migrate".
   a) Depending on how you installed the program, you may need to "python manage.py makemigrations" before this, especially if you are upgrading from a previous version of our software.
7) Run "python manage.py runserver" to start the website locally from your computer. (To quit the server, do "CTRL+C" to stop it from running.
8) Type in "localhost:8000" in the URL bar of your web browser to access the page.
9) Create a few accounts (professor and a few students) add them to a course, and create a chatroom on the left navigation bar (you need to be logged into an account to create/use a chatroom).
10) If you create a project in a course, the project will automatically create a chatroom with the project name as the chatroom name.

Heroku Setup:

1) Install a Redis server onto the Heroku app dashboard.
2) Switch redis channel layer to use RedisChannelLayer and link the host to the Redis installed on the Heroku app.
3) Create asgi file inside teamworks folder using the settings file and binding a channels layer variable.

4) Create Procfile for the initial server settings with the lines:

web: daphne teamwork.asgi:channel_layer --port $PORT --bind 0.0.0.0 -v2

worker: python manage.py runworker -v2

First line starts the webserver off of the asgi file running channels

Second line creates a worker to handle background tasks and messages for channels

Optional:

1) After doing the steps above, if you need to create an administrator on your version of the site, run "python manage.py createsuperuser" and follow the instructions displayed in your terminal.

   a) All other users/courses/projects/chatrooms you can create through your web browser when running the website.

User Guide:

Here are some tips to use our Live Chat functionality:

- Once logged in, navigate to the Chatrooms page via the link on the left side navigation bar
- To create a Chatroom, use the "Create Chatroom" button. You must enter a unique Chatroom name, and add users by typing in their usernames separated by commas (for example: "user1, user2, user3, …") Any invalid usernames will be skipped, but the user creating the chatroom will automatically be added the room.
- The chatroom should appear on the main Chat page. You can locate it via the tabs above where the "Create Chatroom" button was located.

Basics of Chat:

- Click on the tab of the appropriate room, a box should appear with a variety of buttons and input fields. (10 messages will load by default from previous messages sent)
- Inviting users works like creating a chatroom (comma separated list of usernames)
- Leave chatroom will remove yourself as a member of the chatroom, but the chatroom will still exist for every other member (chatroom is deleted when number of users is 0)
- The "load more messages" button will load 10 more messages previously sent in the conversation.

Additional Chat Functionality:

- You can reference other users by using "@username" anywhere in a message. This will give the username an alert next time they log in, as well as adding a hyperlink to their profile in the message text.
- You can add images/gifs/videos of the following formats: (.png, .jpg, .bmp, .gif, .gifv, .mp4, .webm). In your message you must link to an external image hosting site, and the url must end with the above mentioned format extensions.

- You can direct message users by navigating to their profile and clicking the "send private message" link. Direct messages work very similarly to regular chatrooms.
- The gravatar profile picture that you set up when creating your GrepThink profile will load to the left of every message you send. If you want other users to recognize you easier, upload a unique gravatar picture.