

Coulomb User Guide

Initial Setup:

After unzipping the file install a virtual environment inside of the file by typing this command in the terminal in the correct file directory:

```
python -m venv venv
```

Once the virtual environment is done downloading, enter the virtual environment by entering these commands into the terminal based on your operating system.

Windows:

```
venv/scripts/activate
```

Linux and Mac:

```
source venv/bin/activate
```

Once you have entered the virtual environment, install all dependencies by entering this command in the terminal:

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

Install Redis and Redis Stack, and run Redis using their guide:

[Redis Guide](#)

Running the Application:

To start using the application, go into your terminal while inside the virtual environment and redis running in the background and enter this command:

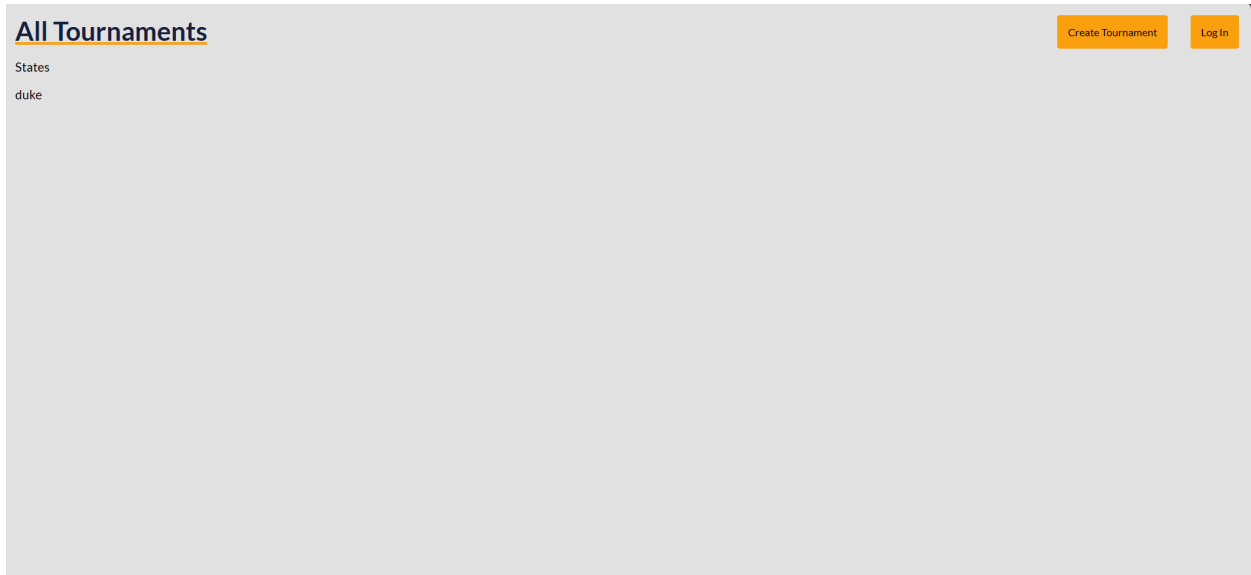
```
python3 app.py
```

Using the Application:

To use the application, go to the url

<http://127.0.0.1:8022/>

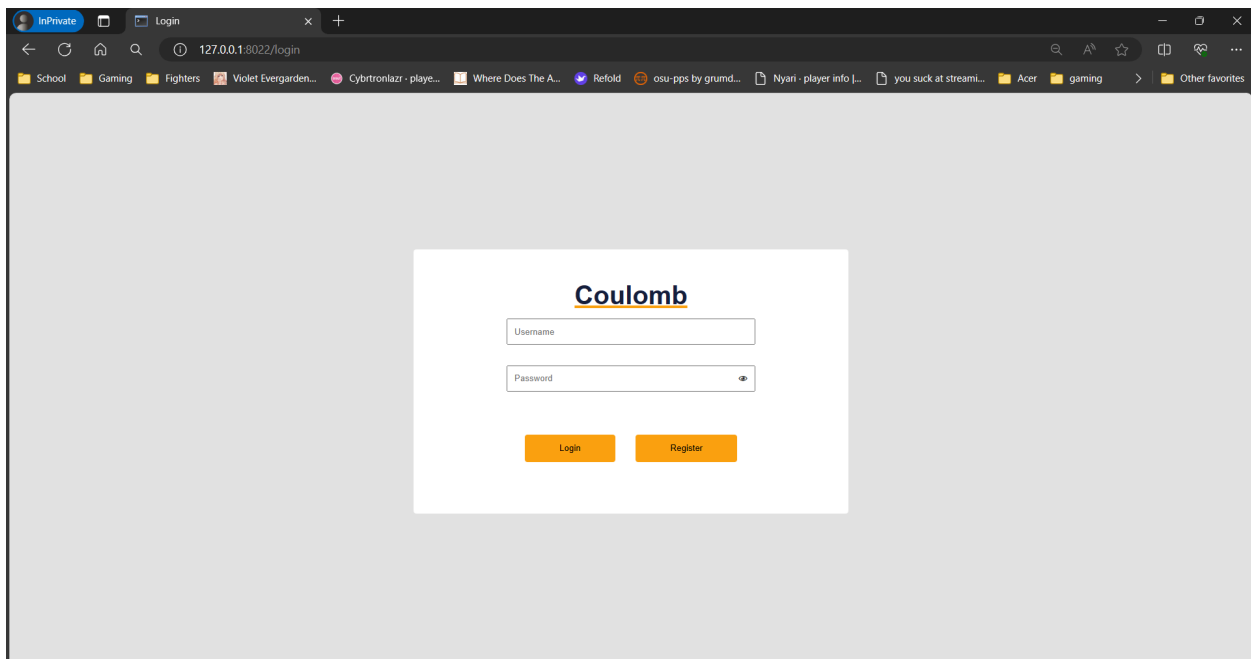
For the tournament list,



Or

<http://127.0.0.1:8022/login>

For the login/registration page



While you can view tournament, team, and participant details without logging in, you will not be able to create or join a tournament until you login.

Tournaments are considered “finished” when data already exists inside of them.

Viewing an already finished tournament:

<http://127.0.0.1:8022/tournaments/States>

States Results						Log Out
School	Physics	Math	Bio	Chem		
NCSSM Morganton	1	1	1	1		
NCSSM Durham	2	2	2	2		

Tournaments that don't have data inside are joinable by teams that are logged in.

Mallard Creek Invitational Results						Join Tournament	Log Out
School	Math	Physics	Bio	Chem			
Mallard Creek							

The creator of the tournament can then update the results. Once placements have been inputted, teams are no longer able to join the tournament.

Mallard Creek Invitational Results

Log Out

School	Math	Physics	Bio	Chem
Mallard Creek	1	1	1	1

Save

You can click on a team to view all the tournaments they have been in.

Mallard Creek's History:

Log Out

Mallard Creek Invitational

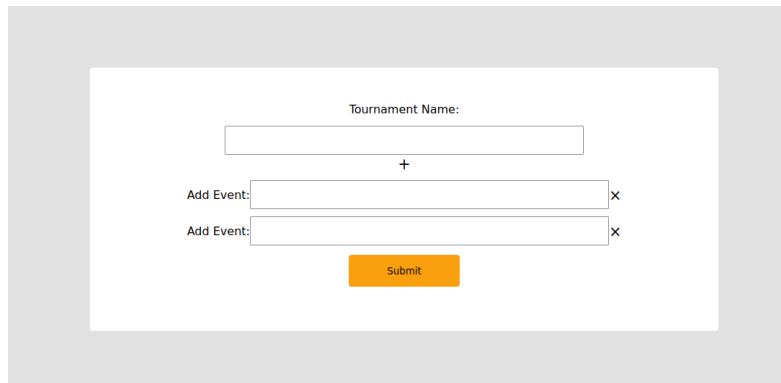
Math	Physics	Bio	Chem
1	1	1	1

Add Participant

List of All TournamentsSee All Participants

In the team page, you can click on each tournament to view their full results. You can also return to the list of all tournaments or the list of all participants for that team.

To create a tournament, from the tournament list page, click on the button that says create tournament, and put in the tournament name and event names. You can press the + button to add more events.



The screenshot shows a form for creating a tournament. It has a text input field for 'Tournament Name:' followed by a '+' button. Below this are two 'Add Event:' labels, each followed by a text input field and a small 'x' icon. At the bottom is an orange 'Submit' button.

The participants page showcases all the tournaments the participants have participated in, and the placements for the events in the tournament.

hugh - me's History:

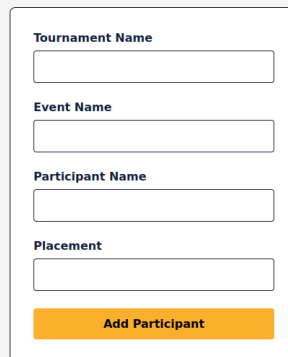
hugh

glenn

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[List of All Tournaments](#)

The add a participant page will only show up on teams pages, but you can only add participants to your own team. Fill in the data boxes, and you will add a participant. It will not automatically redirect you, so please go back to the team page to see your participants.

A screenshot of a web form titled 'Add Participant'. The form is centered on a light gray background. It contains four text input fields, each with a label above it: 'Tournament Name', 'Event Name', 'Participant Name', and 'Placement'. Below these fields is an orange button with the text 'Add Participant' in white.

Tournament Name

Event Name

Participant Name

Placement

Add Participant

Stop the application:

To stop using the program, go to the terminal where the program is running and press CTRL + C. When the server is done running, type in deactivate to exit the virtual environment.