

# Project Specification: OH Queue

Last Updated: 3/21/2022

## Team Members

Juncheng Zhan, Laura (Kai Sze) Luk, Linyi Li, Cuiting Li  
junchenz@, kluk@, linyili@, cuitingl@ {andrew.cmu.edu}

## Product Backlog

- Login
  - Register an account and log in
  - Log in by authenticating with their Andrew account (OAuth)
- Student view
  - View the names of TAs currently available
  - View the number of students in the queue (color coded)
  - Add themselves to the OH queue for a course by filling out a simple form, providing information such as their location (or a zoom link) and a brief description of their questions.
  - View their position in the queue
  - View the estimated time remaining before they can get help (optional)
  - “Freeze” their positions in line for a short period of time (they will be skipped if it’s their turn, but will still keep the position) (optional)
  - Be notified when they are close to the front of the queue
  - Be notified when it’s their turn
  - Remove themselves from the OH queue if desired
  - Asynchronous flow
    - Be notified for real-time announcements by TAs
    - See a list of previous TA announcements for this office hour
- Instructor view
  - View the names of TAs currently available
  - View the number of students in the queue (color coded)
  - Open/close the OH queue for a course, which determines whether new students can be queued
  - Toggle on/off whether they are currently available to help students (do we need this?)
  - Click a button and have a student assigned to them, with the form that the student previously filled out
  - Pick a student from the queue to help them (help students out of order)
    - Priority can be based on familiarity with the question category etc.

- Remove a student from the OH queue, in case they cannot find the student after a period of time (e.g. 1 minute) and give the student a reason why they're removed
- Be notified after helping a student for a period of time (e.g. 10 minutes), to confirm they are still helping the student (optional)
- Click a button and indicate they have finished helping a student
- Click a button and indicate the office hour is over (clear all the questions in the queue) (optional)
- Asynchronous flow
  - View a dashboard page with all questions from students waiting for help and currently receiving help
  - Post announcements to all students in the office hour
  - See a list of previous notifications for this office hour
  - View statistics of a current or previous office hour session, e.g. total number of questions answered, average time spent per student, etc. (optional)

## First Sprint Backlog

- Shared view
  - a. Login: register an account and log in (no OAuth) (*Laura*)
  - b. Base HTML (*Rhea & Laura*)
- Student view
  - a. Add themselves to the OH queue for a course by filling out a simple form, providing information such as their location (or a zoom link) and a brief description of their questions. (*Rhea*)
  - b. View the number of students in the queue (color coded) (*Juncheng*)
  - c. View their position in the queue (*Linyi*)
  - d. Remove themselves from the OH queue if desired (maybe)
- Instructor view
  - a. View the number of students in the queue (color coded) (*Juncheng*)
  - b. View a dashboard page with all questions from students waiting for help and currently receiving help (*Juncheng*)
  - c. Open/close the OH queue for a course, which determines whether new students can be queued (*Juncheng*)
  - d. Click a button and have the student at the front of the queue assigned to them, with the form (question description) that the student previously filled out (*Linyi*)
  - e. Click a button and indicate they have finished helping a student (maybe)

## Product owner

Juncheng Zhan (junchenz)

# Data Models

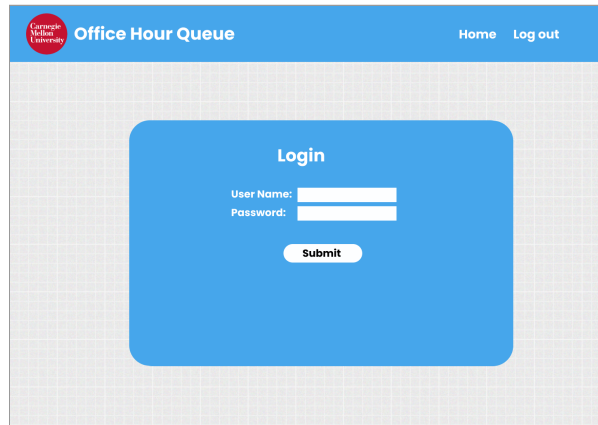
See models.py in the code

## Wireframes / Mock-ups

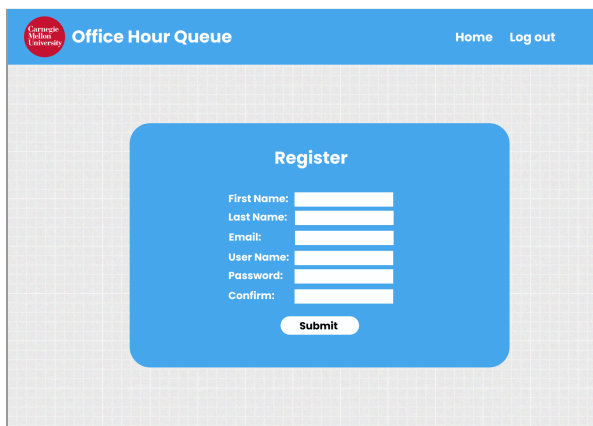
Home Page



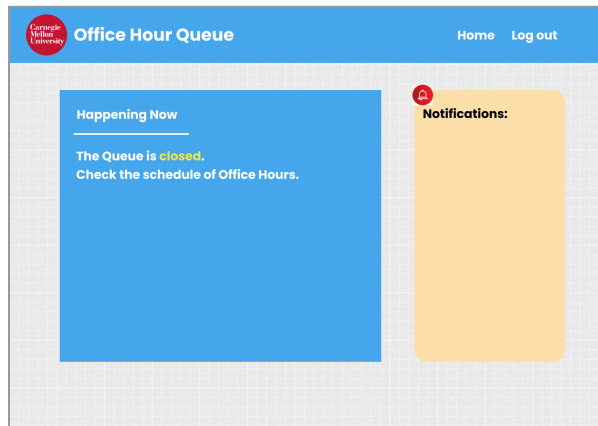
Login



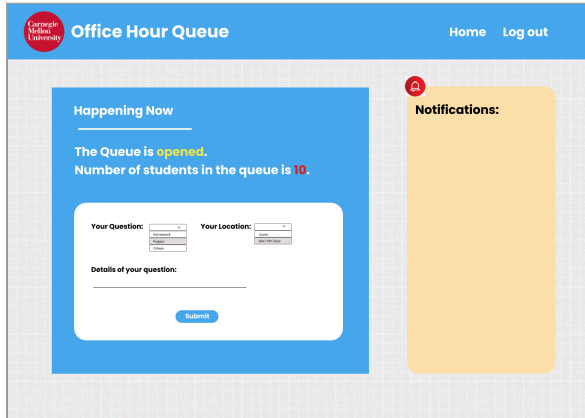
Register



Student View Queue is Closed



Student View: Before Asking Question



Office Hour Queue Home Log out

**Happening Now**

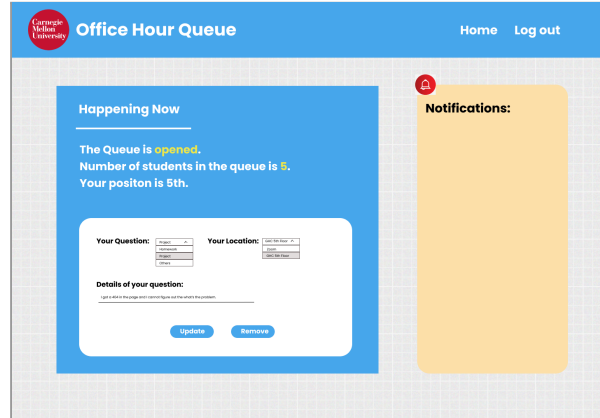
The Queue is **opened**.  
Number of students in the queue is **10**.

Your Question:  Your Location:

Details of your question:

**Notifications:**

Student View: After Asking Question



Office Hour Queue Home Log out

**Happening Now**

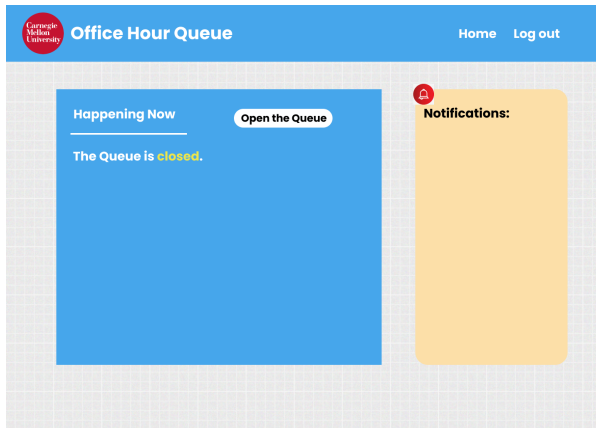
The Queue is **opened**.  
Number of students in the queue is **5**.  
Your position is 5th.

Your Question:  Your Location:

Details of your question:

**Notifications:**

TA's View: Queue is Closed



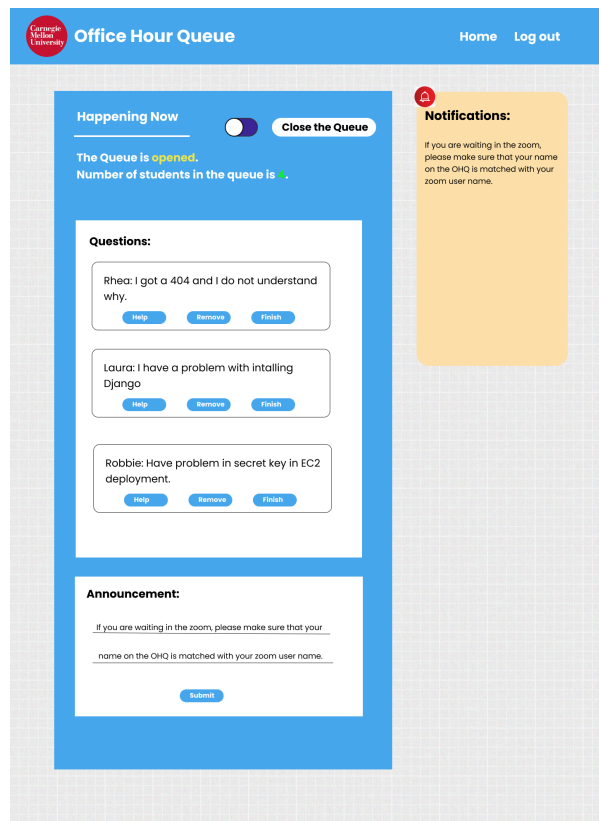
Office Hour Queue Home Log out

**Happening Now**

The Queue is **closed**.

**Notifications:**

TA's View: Queue is Opened



Office Hour Queue Home Log out

**Happening Now** ☒

The Queue is **opened**.  
Number of students in the queue is **1**.

**Questions:**

Rhea: I got a 404 and I do not understand why.

Laura: I have a problem with installing Django

Robbie: Have problem in secret key in EC2 deployment.

**Announcement:**

If you are waiting in the zoom, please make sure that your name on the OHQ is matched with your zoom user name.

**Notifications:**

If you are waiting in the zoom, please make sure that your name on the OHQ is matched with your zoom user name.