

# Compserv Onboarding

Fall 2025

# CompServ



**CompServ** is in charge of computing services, member logistics, and managing the website for HKN.

Currently our biggest project is the overhaul of the website @ [dev-hkn.eecs.berkeley.edu](http://dev-hkn.eecs.berkeley.edu).

## Committee Project:

- Attend compserv events!
- Meet the compserv officers!
- Contribute to our new HKN website!
  - Add features
  - Design UI/UX
  - Find and fix issues



# Current Officers



Jermaine



Ryan



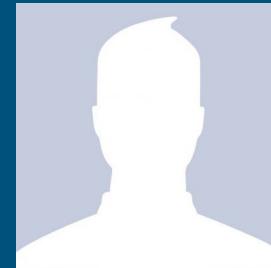
Tiger



Keller



Matthew



Alok

Feel free to message us in the #compserv channel on slack, or dm if you prefer to stay private

# Candidate Project

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Full candidate project info is here: [CompServ Candidate Doc](#)

TL;DR:

- Attend Onboarding
- Attend 1 group worksession
- Attend the committee and group socials
- Finish 1 task related to the website (more on this on next slide)

# Candidate Project Tasks

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- Select your preferences for the following projects:
  1. Tutoring Course Pref
  2. Tutoring Sign up
  3. Short Links Page (+ CSV Export and Import)
- If you don't like any of these feel free to come up with your own (or ask us to make better project ideas i guess)

# Tutoring Preferences Page

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## Description:

- Migrate over the functionality from the old website for officers to choose courses that they would like to tutor for.
- Officers should be able to choose Current Courses, Completed Courses, and Preferred Courses.
- Stay consistent with the new aesthetics of the website.

Screenshot of the Eta Kappa Nu (HKN) Tutoring Preferences Page. The page features a header with the Eta Kappa Nu logo and navigation links for STUDENT SERVICES, INDUSTRY RELATIONS, EVENTS, PEOPLE, SERVICE, ALUMNI, ABOUT HKN, CANDIDATE PORTAL, and ADMIN. A search bar at the top right includes fields for "Search Exams", "Search Course Surveys", and "Search". The main content area is titled "Sign up for classes" and includes a "Search for class:" input field and a "Add to Current Courses" button. Below this is a "Preferences" section with the sub-instruction "Drag and drop the courses to adjust your preferences". It contains three sections: "Current Courses" (with items CS61A, CS61B, CS61C), "Completed Courses" (with items PHYS1B, MATH1B, EECS16A), and "Preferred Courses" (with items CS109, CS189, CS161, EECS16B, EECS172, EECS18B). A "Save Changes" button is located at the bottom of the preferences section.

Screenshot of the Eta Kappa Nu (HKN) Tutoring page for September 25, 2025. The page has a header with the Eta Kappa Nu logo and navigation links for Student Services, Industry, Outreach, Events, About, and Welcome, Tiger. Below the header are links for Tutoring Hours, Review Sessions, Course Surveys, Course Guide, Department Tours, and Resume Critique. The main content area is titled "Tutoring" and shows a grid of available tutoring slots for Thursday, September 25, 2025. The slots are organized by hour: 9am, 10am, 11am, 12pm, 1pm, 2pm, 3pm, and 4pm. Each slot is represented by a yellow box. To the right of the grid are two search filters: "Filter by course" and "Filter by tutor".

# Tutoring Sign Ups Page

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## Description:

- 2 person project
  - 1 frontend/1 backend?
- Move the old tutoring page to the new site
- Time range in the table should be adjustable

	Cory	Soda				
Hours	Monday	Tuesday	Wednesday	Thursday	Friday	
12PM-1PM	● ○ ○	● ○ ○	● ○ ○	● ○ ○	● ○ ○	● ○ ○
1PM-2PM	● ○ ○	● ○ ○	● ○ ○	● ○ ○	● ○ ○	● ○ ○
2PM-3PM	● ○ ○	● ○ ○	● ○ ○	● ○ ○	● ○ ○	● ○ ○
3PM-4PM	● ○ ○	● ○ ○	● ○ ○	● ○ ○	● ○ ○	● ○ ○
4PM-5PM	● ● ●	● ○ ○	● ○ ○	● ○ ○	● ○ ○	● ○ ○

# Short Links Page

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## Description:

- Bootleg HKN version of [bit.ly](#); ex, [hkn.mu/compserv](#)
- Implement the shortlinks page!
  - Allow for creation of new shortlinks
  - List all shortlinks on the page, including metadata of who created them
  - CSV dump for shortlink portability



Oops!

The page [/shortlinks](#) doesn't exist. If you think this is a mistake, contact Compserv.

[Go to home](#)



this could be a happy cat with your help



# hknweb

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- [dev-hkn.eecs.berkeley.edu/](http://dev-hkn.eecs.berkeley.edu/)
- Our Django-based internal website
- What you're using for the candidate semester
- Does not contain things like tutoring hours or course surveys - those are on the ruby on rails site at hkn.mu!
- Github repo is here: <https://github.com/compserv/hknweb>

# Setting up hknweb

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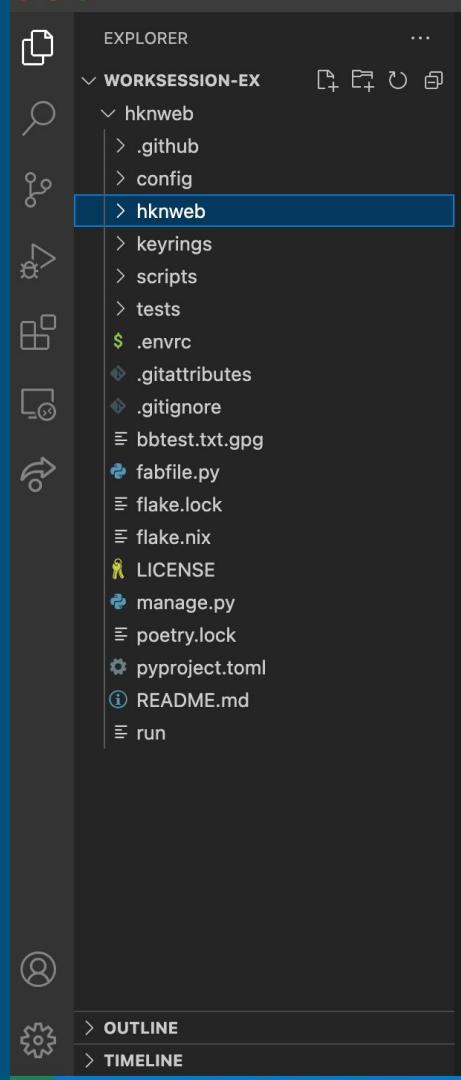
- Go to the repo at <https://github.com/compserv/hknweb>
- Fork the repo (button in top left)
- Clone the repo to local ('git clone <insert http/ssh url here>' in terminal)
- Install [Docker](#)
- cd into the hknweb repo and run 'docker compose up -d'
- Run 'docker compose exec app bash'
- Run 'python manage.py migrate'
- Run 'python manage.py runserver' - You should now be able to see the website at <http://localhost:8000>



# hknweb layout

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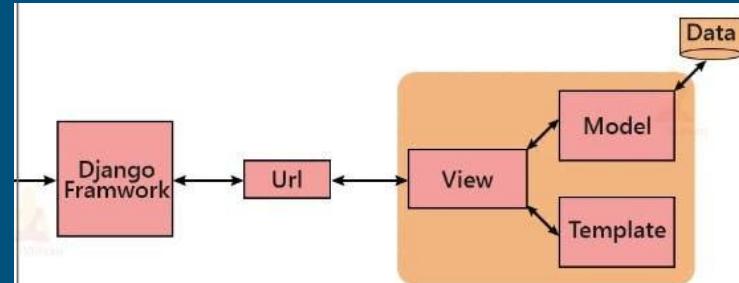
- Most of what you need is within hknweb
- Shouldn't need to touch any of the config/settings files
- Maybe testing if you want to write tests



# More on Django

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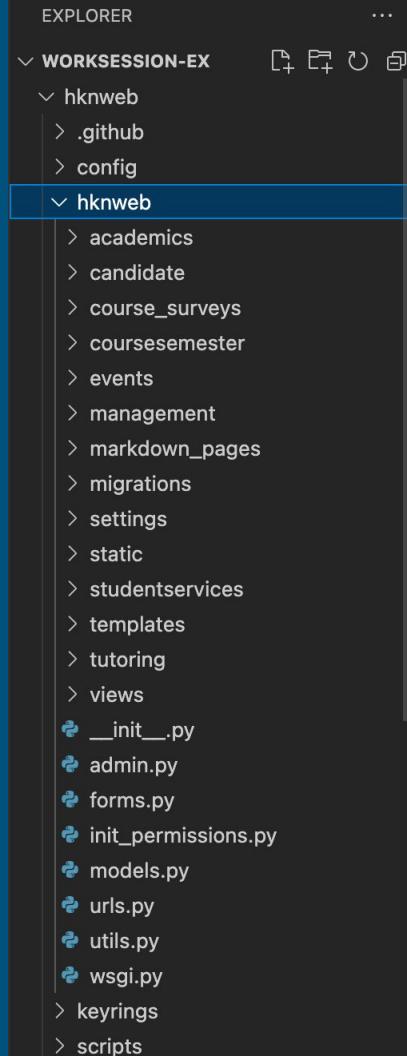
- Model-View-Controller framework -> Model, Template, View
- Model - Essentially python classes, defines the structure of the database and relationships between data
- Template - html file that determines the format of the data the user sees
- View - takes in a web request and returns a response. Contains the logic to determine what kind of response should be given
- urls.py - router that maps the url given by the user to a specific view



# Within hknweb/hknweb

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- academics/, candidate/, course\_surveys/, coursesemester/, events/, markdownpages/, studentservices/, tutoring/ - different apps each containing their own models and views
- settings/ - config stuff goes here. If you wanted to create a new app, you would edit settings/common.py.
- static/ - static images for display
- templates/ - contains the html layout for each app to render
- views/ - handles the data to pass to each template (there is also a views/ folder within each app for app specific data)
- urls.py - routes the user to pages depending on the url



# Let's make an update!

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- We want to add a “point of contact” text field to an event
- We will need to update the event model, view, and template
- Current layout
- (<http://127.0.0.1:8000/events/new?>)

Add an event

Name: \*

Location: \*

Description: \*

Event type: \*

Start time: \*

End time: \*

RSVP limit:

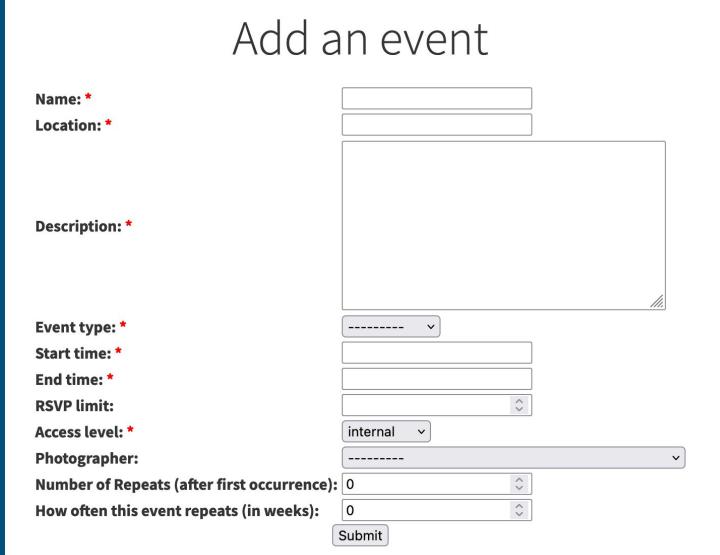
Access level: \* internal

Photographer:

Number of Repeats (after first occurrence): 0

How often this event repeats (in weeks): 0

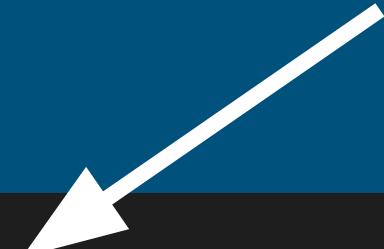
Submit



# Editing events/models/events.py

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- In line 16, let's add a new field to the event class called 'point\_of\_contact'



```
13
14 class Event(models.Model):
15     name = models.CharField(max_length=255)
16     point_of_contact = models.CharField(max_length=255, default="N/A")
17     start_time = models.DateTimeField()
18     end_time = models.DateTimeField()
19     location = models.CharField(max_length=255)
20     event_type = models.ForeignKey(EventType, models.CASCADE)
21     description = MarkdownxField(max_length=500)
22     rsvp_limit = models.PositiveIntegerField(null=True, blank=True)
23     access_level = models.IntegerField(
24         choices=ACCESS_LEVELS,
25         default=0,
26     )
27     created_by = models.ForeignKey(User, on_delete=models.CASCADE, default=None)
28     created_at = models.DateTimeField(auto_now_add=True)
```

# Also edit events/forms/event/create.py

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- And events/forms/event/update.py
- Add the “point of contact” field to meta
- Now our database contains the field for the point of contact data
- We will need to let the database know that there has been a change – more on this later!

```
29     class Meta:  
30         model = Event  
31         fields = [  
32             "name",  
33             "point_of_contact",  
34             "location",  
35             "description",  
36             "event_type",  
37             "start_time",  
38             "end_time",  
39             "rsvp_limit",  
40             "access_level",  
41             "photographer",  
42         ]  
43 
```

## Editing events/views/event\_transactions/show\_event.py

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- In line 33, we add an “event\_point\_of\_contact” field
- Now we can pass data from the model to the template



```
25     def show_details_helper(request, id, back_link: str, can_edit: bool):
26         event = get_object_or_404(Event, pk=id)
27         if event.access_level < get_access_level(request.user):
28             messages.warning(request, "Insufficient permission to access event.")
29             return redirect(back_link)
30
31         context = {
32             "event": event,
33             "event_point_of_contact": markdownify(event.point_of_contact),
34             "event_description": markdownify(event.description),
35             "event_location": format_url(event.location),
36             "user_access_level": ACCESSLEVEL_TO_DESCRIPTION[get_access_level(request.user)],
37             "event_access_level": ACCESSLEVEL_TO_DESCRIPTION[event.access_level],
38             "back_link": back_link,
39             "can_edit": can_edit and request.user.has_perm("events.change_event"),
40         }
41
```

# Editing templates/events/show\_details.html

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- How did we know to edit this?
- We add a new line for the point of contact data to be published

```
110    {% block content %} 
111      <div class="parent">
112        <h1 id="event-detail-title"> {{ event.name }} </h1>
113
114        <div id="left-details">
115
116          <p>{{ event_description | safe }}</p>
117          <p><b>Point of Contact</b>: {{ event.point_of_contact }}</p>
118          <p><b>Event Type</b>: {{ event.event_type }}</p>
119          <p><b>Location</b>: {{ event_location }}</p>
120          <p><b>Date(s) and Time(s)</b>: {{ event | process_event_time }}</p>
121          <p><b>Semester</b>: {{ event.semester }}</p>
122          <p><b>Access level</b>: {{ event_access_level }}</p>
123
```

# Final changes

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- Since we made an edit to the models, the database tables are now missing the 'point\_of\_contact' field!
- We run 'python manage.py makemigrations' and 'python manage.py migrate' to update the database with the new field.
- We also need to create an admin account so we can create an event locally, which we can do with 'python manage.py createsuperuser'
- Now let's go to the admin portal at <http://127.0.0.1:8000/admin> and create a new event type - this is required for us to create an event

# Final result

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- We should now be able to create a new event on our local server with the point of contact field
- When we view the event, it also has the point of contact listed in its description

## Add an event

Name: \*  
Point of contact: \*  
Location: \*

Description: \*

## Test event

def

**Point of Contact:** Admin

**Event Type:** Test

**Location:** abc

**Date(s) and Time(s):** Thu, October 19, 2023 - 6:00 PM to 7:00 PM

# Submitting changes to hknweb

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- Our code is done (and tested), what now?
- Git add/commit/push to your fork (either to master branch or make a new branch)
- Go to <https://github.com/compserv/hknweb/pulls> and make a new pull request
- Congrats, you have made a pr! This is how you will be submitting your candidate project task (assuming your task is coding related).

# Final thoughts

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- Let us know if you have any questions! Message us on the candidate slack in the #compserv channel or by dm
- The code for this demo can be found at  
<https://github.com/lo-maxwell/hknweb/tree/worksession-fa23>
  - Note that there is an extra file change in the migrations section, this will be automatically generated by running makemigrations/migrate.