My Contributions to Cal Backend

I had various main parts of the backend assigned to me which had included Role based access middleware, some of the main endpoints (such Invitation and availabilities), Availability Conflicts with their reasoning, and small parts of the Schedule that I could figure out.

To the right is some of our testing on permission, error handling and output for the Availabilities.

Backend: umb-410-CAL/backend

Curl

```
curl -X 'POST' \
  'http://127.0.0.1:8000/api/availability' \
  -H 'accept: application/json' \
  -H 'Authorization: Bearer eyJhbGciOiJIUzI1NiIsImtpZCI6IlM2NENYaVN
  -H 'Content-Type: application/json' \
  -d '{
  "start_time": "2025-12-11T00:34:49.237Z",
  "end_time": "2025-12-11T00:34:49.237Z"
}'
```

Request URL

```
http://127.0.0.1:8000/api/availability
```

Server response

Code	Details
403 Undocumented	Error: Forbidden

Response body

```
{
    "detail": "Forbidden: requires role 'candidate'"
}
```

Add availability slot. Only candidates can add their own availability.

Parameters

No parameters

Request body required

Edit Value | Schema

```
{
    "start_time": "2025-12-11T00:34:49.237Z",
    "end_time": "2025-12-11T00:34:49.237Z"
}
```

```
[
  {
    "id": "9e4da226-e334-42c1-8eab-77320090a570",
    "candidate_id": "3f2c74da-57f8-4905-a3ed-ec5b8f8c3c47",
    "start_time": "2025-12-08T14:00:00Z",
    "end_time": "2025-12-12T22:00:00Z"
  },
  {
    "id": "0bbfd80b-4b7b-4382-8709-92b41713191e",
    "candidate_id": "3f2c74da-57f8-4905-a3ed-ec5b8f8c3c47",
    "start_time": "2025-12-15T17:30:00Z",
    "end_time": "2025-12-19T21:00:00Z"
  },
  {
    "id": "9a86ad47-e8ef-4428-acf1-306f98787e58",
    "candidate_id": "f92fde1c-1a7e-4a53-8e73-dc51f265a687",
    "start_time": "2025-11-12T13:19:13Z",
    "end_time": "2025-11-12T18:12:22Z"
  },
  {
    "id": "43398185-1774-4b52-88c7-046af0acf6d4",
    "candidate_id": "e1061793-0831-4479-b328-3a000d92e143",
    "start_time": "2025-11-11T14:00:00Z",
    "end_time": "2025-11-11T22:00:00Z"
  },
```

Backend Artifacts

- We didn't really have much for Artifacts except the subsequent pycache byte code.

- To the right are some picture of a small portion of my commit list and product log.

- You don't see it here, but we weren't able to complete everything all edge cases like conflict the final proper integration of the conflict extension wasn't able to be fully done on my part.
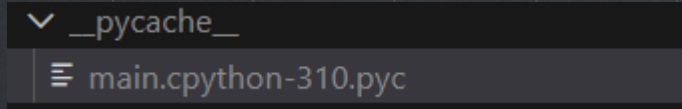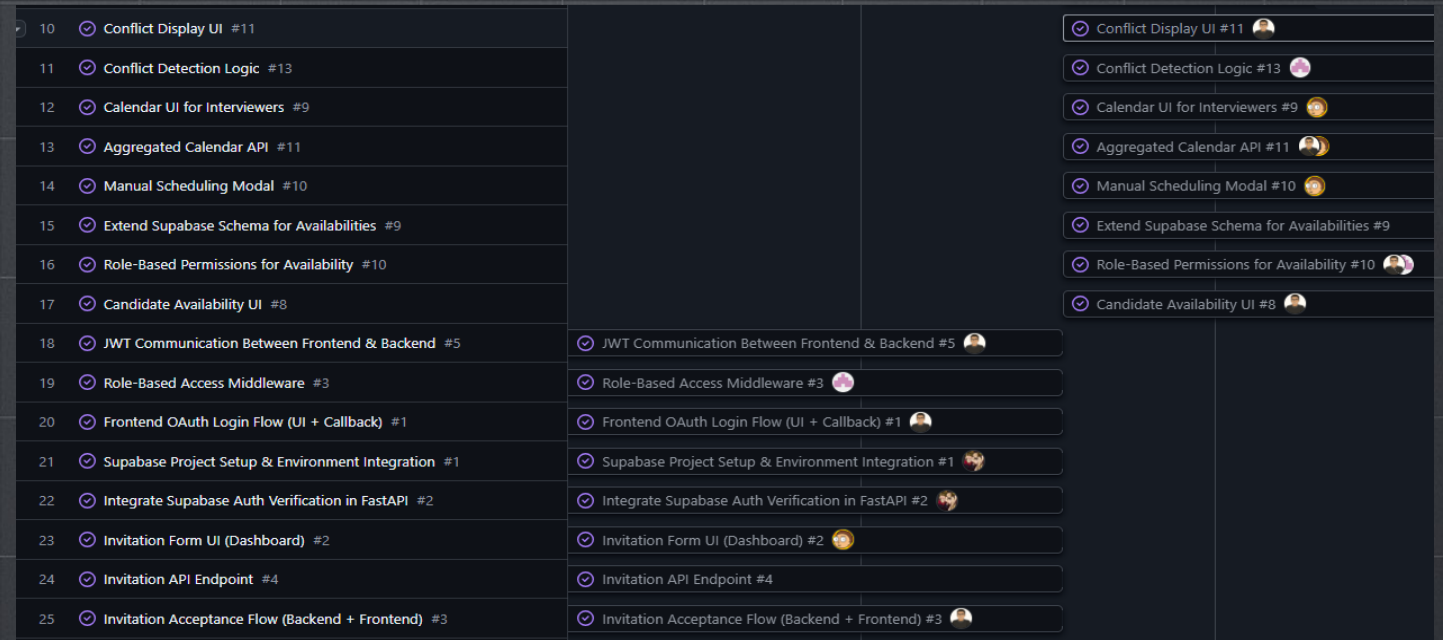
Credentials in Info_1069.txt

Old

1. Last four digits of student ID: 01961069
2. First Name and Last Initial: Michael F
3. Languages: Java, JavaScript, HTML, Python, C, Coq, Racket
   Skills: Fluent enough with Git and GitHub, and preemptively started learning more about databases and common API Endpoints.
4. Preferred Roles: Tester & Designer, but will do any development role that helps me grow some new skills.
5. GitHub: MinkFoley63

New

1. Last four digits of student ID: 01961069
2. First Name and Last Initial: Michael F
3. Languages: Java, JavaScript, HTML, Python, C, Coq, Racket, Yaml.

   Skills: Higher Proficiency in GitHub making better cooperation and following the flow of work that other developers have, as well as learned a lot more about databases table structure. Proper API Endpoint, Models/data schemas and Route structuring.
4. Preferred Roles: Tester & Designer, but will do any development role that helps me grow some new skills.
5. A more well-rounded dictionary of Colloquials/Developer terminologies and basic terms as well I should be using more frequently
6. GitHub: MinkFoley63