

Revision #: 1
SW Engineering CSC 648 / 848 Fall 2019

Date: October 24th, 2019

Milestone 2:

GatorDater

Team 204 (local):

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Milestone	Version	Date Submitted For Review	Date Revised
Milestone 2	1	10/24/2019	

Data Definitions V2

Users: User can be registered or unregistered.

1. Registered User - Student or Professor:

- a. **Username:** Login name associated with each individual user.
- b. **Email:** Email address that is linked to each user's account.
- c. **Password:** String that is used in conjunction with username for authentication.
- d. **Biography:** An about me/biography section per user.

2. Registered User - Student: Registered user who is able to browse classes and schedule office hours with a professor.

3. Registered User - Professor: Registered user who is able to allocate hours for office hour scheduling and manage his/her appointments.

4. Unregistered User - Guest: Unregistered user who has the ability to search for professors and view their available office hours.

5. Administrator: A registered user who has the ability to ban users, create and delete appointments, and blacklist email addresses.

Application:

1. Calendar: Calendar to display scheduled office hours associated with students and professors

- a. **Office Hour:** record of the date and time with professors name

Functional Requirements V2

For Registered Users:

- 1) Users shall be able to make an account
- 2) Users shall be able to login
- 3) Users shall be able to access the office hour page
- 4) Users shall be able to cancel their scheduled office hours appointment
- 5) Users should be able to edit profile
- 6) Users shall be able to specify which class they belong to

For Registered Users That Are Students:

- 1) Users shall be able to search for their professors
- 2) Users shall be able to reserve a time slot

For Registered Users That Are Professors:

- 1) Professor shall be able to post their available time slots.
- 2) Professor shall be able to restrict hours from being scheduled
- 3) Professor shall be able to specify which class is allowed to schedule office hours

System Tasks:

- 1) System shall make reserved time slots unavailable
- 2) System shall send an email when a user signs up
- 3) System shall add scheduled office hours to personal calendar
- 4) System shall check professor's calendar for free slots
- 5) System shall add selected office hours to professor's calendar
- 6) System shall send email to student and professor when office hours scheduled
- 7) System shall send email to student/professor when meeting cancelled.

Priority 1:

- 1) A user must be able to sign up
- 2) A registered user must be able to login
- 3) A registered user must be able to reserve/close office hours

Priority 2:

- 1) Registered users can send messages to other registered users
- 2) Registered users can update their profiles

Priority 3:

- 1) Upon reservation/cancelation, notifications will be sent towards both registered users
- 2) Registered users can input events into calendar

UI Mockups and Storyboards

Navbar:

- Home(guide)
- Schedule Office Hours
- Your Booked Hours
- Notification Bell(idk if we know how to do this or need this)
- **Register/Login/Logout:** Popup in the top right corner.

Register Page:

- Asks if the user has registered or not. If they have not, register them immediately after they enter in their information
- Option to take them to the home page if they have registered or skip to brows

Welcome to GatorDater

Register

email:

username:

password:

Already registered or just want to browse? [Click Here](#)

Login Page:

Welcome to GatorDater



Login

Username

Password

Login(button)

Already register or just want to browse? [Click Here](#)

User Home Page:

- A detailed step by step guide on how to use the app with pictures for the students

Home	Schedule Office Hours	Your Booked Hours	Welcome, (Name) Logout
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Welcome to the GatorDater Homepage

**Step by step guide on how to use the program with
pictures to be implemented**

**1
2
3
4
5**

Professor Home Page:



User Schedule Page:

- Search bar for professor's name
- Make appointments per time slot on this page.
- Calendar with time slots will be blocked off (marked red and unselectable) if the slot is already booked

Home	Schedule Office Hours	Your Booked Hours	Welcome, (Name) Logout
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Schedule your office hours here

Search for your professor:

November 2019						
SUN	MON	TUE	WED	THU	FRI	SAT
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

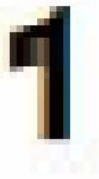
Home	Schedule Office Hours	Your Booked Hours	Welcome, (Name) Logout
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Schedule your office hours here

Search for your professor: Jack Jones

November 2019						
SUN	MON	TUE	WED	THU	FRI	SAT
					1 3:30pm - 4:30pm open slots	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

Reserve your hours

	
3:30pm-3:45pm	(button to reserve)
3:45pm-4:00pm	(button to reserve)
4:00pm-4:15pm	(button to reserve)
4:15pm-4:30pm	(button to reserve)

Professor's Page(only professors and admin can see):

- Popup to tell professor if a student wants to reserve a time slot
- Button to accept a student's office hour appointment
- Button to deny a student's office hour appointment
- Button to provide a reason for cancelling appointment to student

Professor Schedule/Calendar Page:

Home	Upcoming meetings	Update Availability	Welcome, Jake Logout			
Upcoming Meetings						
November 2019						
SUN	MON	TUE	WED	THU	FRI	SAT
					1	2
3	4 3:30 – 4:30 pm Jenny Judo	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

[Home](#)[See Upcoming meetings](#)[Update/ Cancel](#)[Welcome, Jake](#) [Logout](#)[Update Availability \(button\)](#)[Cancel Appointments \(button\)](#)

Professor Cancelling Appointment:

Home	See Upcoming meetings	Update/ Cancel	Welcome, Jake Logout
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Cancel Appointments

Your Appointments Schedule	Reason	Cancel
Monday 3:30 – 4:30 pm With Jenny Judo	Please select the following option (Drop down menu)	Cancel (button)
	Meeting	
	Emergency	
	Other	

[Home](#)[See Upcoming meetings](#)[Update/ Cancel](#)[Welcome, Jake](#) [Logout](#)

Your appointment has been successfully cancelled!

At the meantime please update your availability, Thank you,

Professor Updating Availability:

Home	See Upcoming meetings	Update/ Cancel	Welcome, Jake Logout			
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Update Availability

November 2019

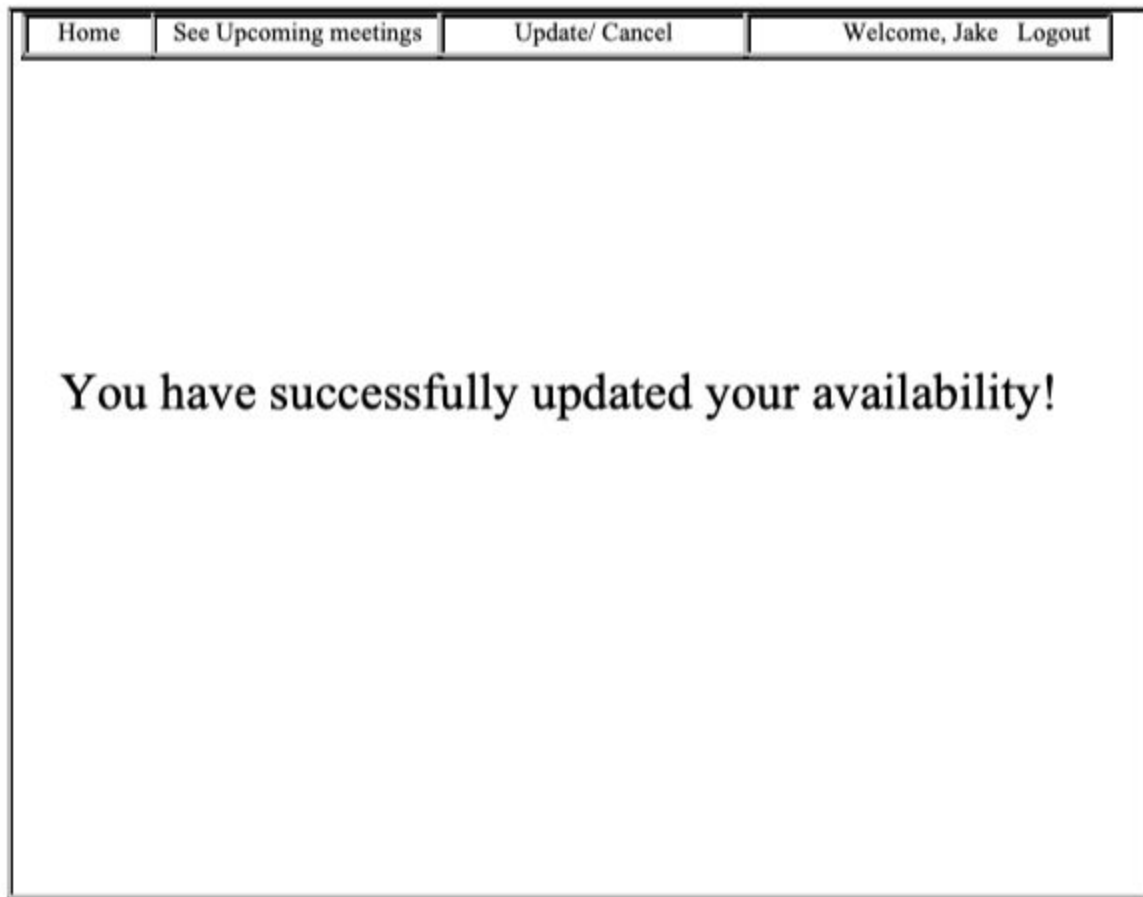
SUN	MON	TUE	WED	THU	FRI	SAT
					1	2
3	4 <small>Open/Close (button)</small>	5 <small>Open/Close (button)</small>	6 <small>Open/Close (button)</small>	7 <small>Open/Close (button)</small>	8 <small>Open/Close (button)</small>	9
10	11 <small>Open/Close (button)</small>	12 <small>Open/Close (button)</small>	13 <small>Open/Close (button)</small>	14 <small>Open/Close (button)</small>	15 <small>Open/Close (button)</small>	16
17	18 <small>Open/Close (button)</small>	19 <small>Open/Close (button)</small>	20 <small>Open/Close (button)</small>	21 <small>Open/Close (button)</small>	22 <small>Open/Close (button)</small>	23
24	25 <small>Open/Close (button)</small>	26 <small>Open/Close (button)</small>	27 <small>Open/Close (button)</small>	28 <small>Open/Close (button)</small>	29 <small>Open/Close (button)</small>	30

Home	See Upcoming meetings	Update/ Cancel	Welcome, Jake Logout
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Update Availability

Open/ Close Availability

Date	Reason	Open/ Close Availability				
4 th November Monday	Select the following Option (Drop down Menu) <table><tr><td>Available</td></tr><tr><td>Away from Desk</td></tr><tr><td>Emergency</td></tr><tr><td>Vacation</td></tr></table>	Available	Away from Desk	Emergency	Vacation	Open (button) Close (button)
Available						
Away from Desk						
Emergency						
Vacation						



Your Page(only students can see):

1. Notifies you on what professor you booked and what time slot you have.
2. Able to cancel their appointment if something comes up

Student Page

Confirmation:

Your office hours with Professor Jack Jones has been confirmed!

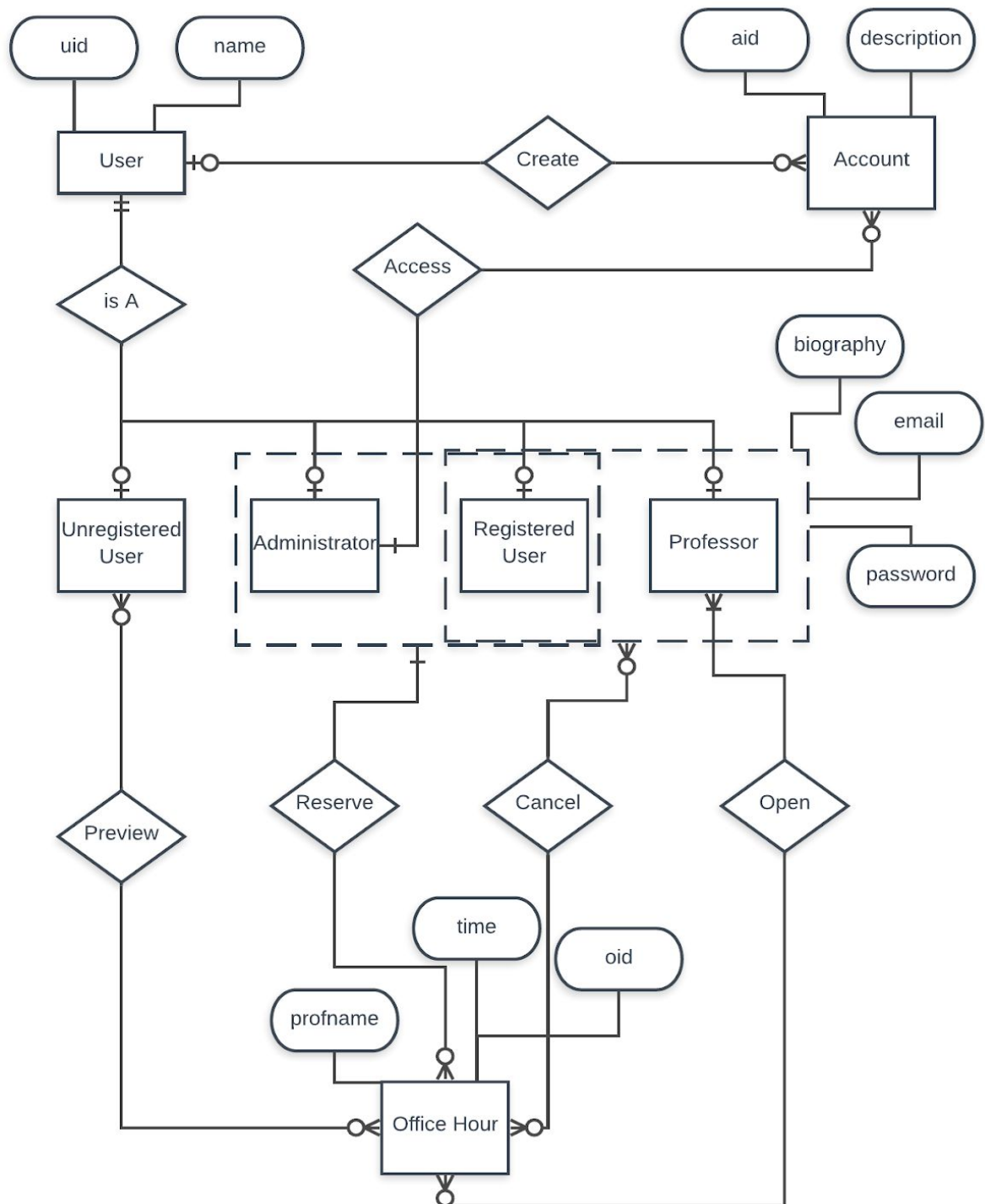
Cancel Button
Cancel the appointment

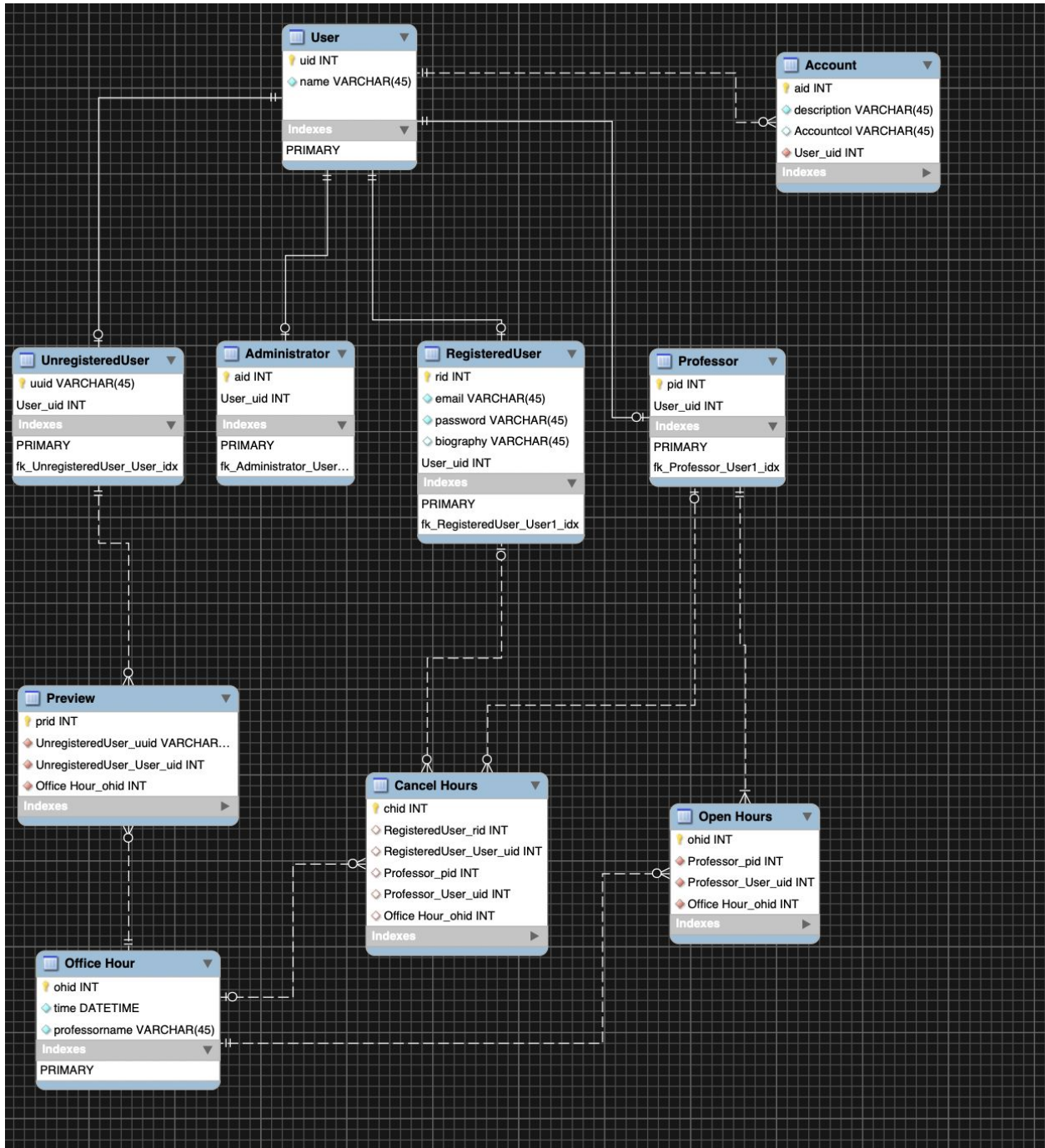
High Level Database Architecture and Organization

Business Rules :

1. Users can create multiple accounts
2. A registered user can reserve unlimited office hours
3. A professor can open multiple office hours
4. Each office hour is reserved by only one registered user
5. Unregistered users can preview unlimited office hours
6. A registered user can cancel unlimited office hours
7. A professor can cancel multiple office hours

ERD:





High Level APIs and Main Algorithms

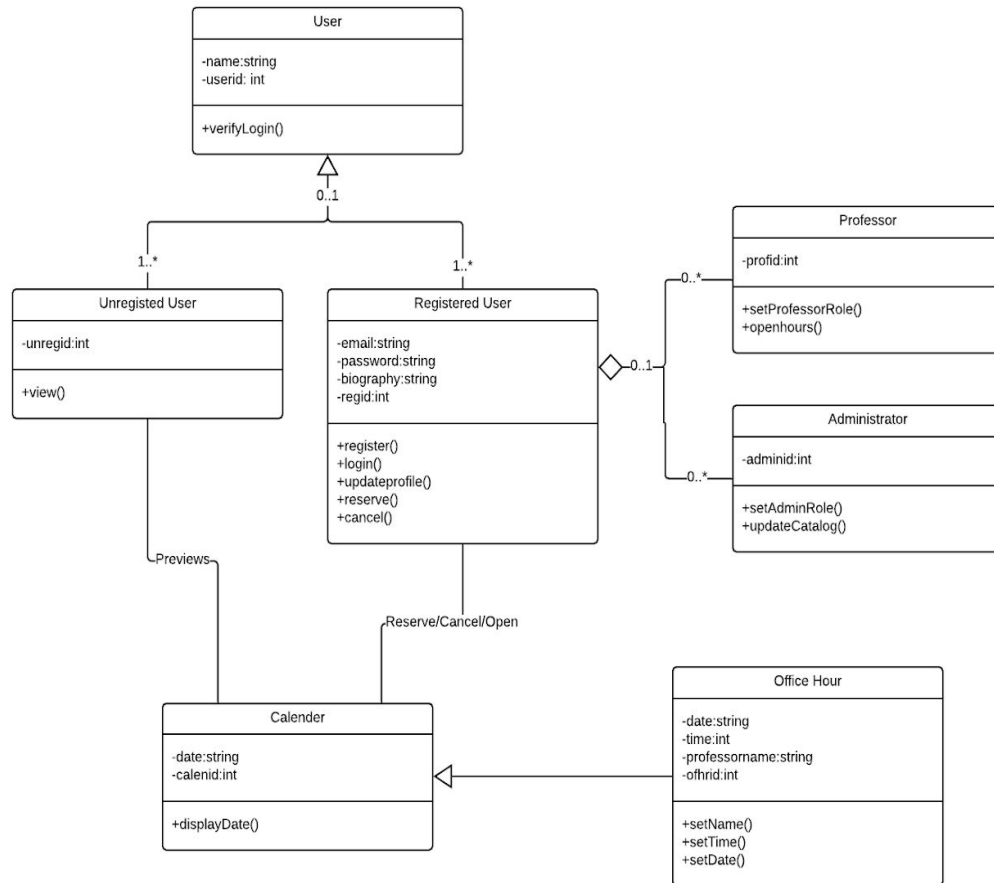
No real APIs are currently implemented or foreseen. Most of the backend communication will be via PHP -> MySQL connect and functions.

So far the only “algorithm” that will be used is a search algorithm. Currently, using MySQL LIKE operator query.

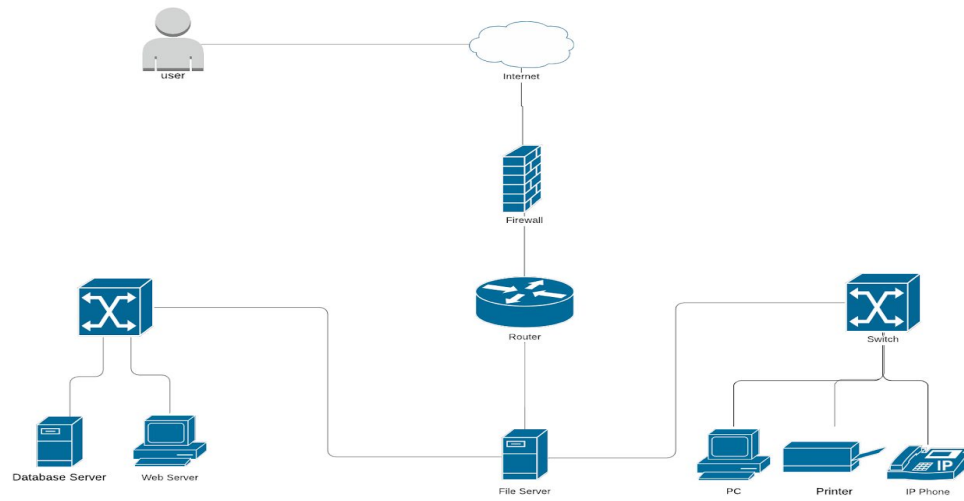
This will return an array of database elements that match the input pattern ordered by their index value (in our case, UID number).

This query may begin to take some time to return data if the database grows very large, so we may need to look into an alternative search algorithm. But using the LIKE operator allows us to do a realtime dropdown of options as the user enters a search item.

High Level UML Diagrams



High Level Application Network and Deployment Diagrams



Current Risks

Skills risks: The team as a whole possesses the skills to complete all aspects of the project. Some members need to be helped out/brought up to speed on how to implement certain features, but as a whole we do have the knowledge to do so and educate everyone to bring them to the same level.

Schedule risks: So far, we have been able to meet all the deadlines and have our prototypes meet all of the requirements on time. No issues with the delivery schedule.

Technical risks: None so far.

Teamwork risks: None so far, each team member is putting in effort and doing their best.

Legal/content risks: None so far.

Project Management

For M2, I split the load of the front end and back end to their respective teams. My front end team worked on the UI Mockups/Storyboards and my back end team worked on the high level database architecture and organization. I helped both sub-teams with their tasks. I also put together the vertical prototype. Not much help was needed from the front end or back end team for this part as it was pretty simple for a single team member to put together. What we really need to do moving forward is to bring the whole team up to speed on the latest UI mockup tools such as Figma, which would have made our UI mockups look a lot nicer. Right now the mockups were built using paint and word. I'll be sure to have a meeting specifically for teaching team members about other tools we can use rather than solely focusing on getting the work done and distributing load.