

Milestone 3:

GatorDater

Team 204 (local):

Tejas Vajjhala (tvajjhala@gmail.com): Team Lead, Github Master

Sanil Rijal (srijal0509@gmail.com): Front-end Lead

Thomas Zhang(t.zhang70@gmail.com): Front-end assist

Aaron Li (ali16@mail.sfsu.edu): Back-End Lead, Database Master

Milestone	Version	Date Submitted For Review
Milestone 3	1	11/21/2019
Milestone 2	1	10/24/2019
Milestone 1	2	

Table of Contents

Table of Contents	1
Data Definition V2	2
Functional Requirements V2	3
Priorities	4
UI Mockups & Storyboards	5
High level database architecture & organization	30
High level APIs and Main Algorithms	33
High Level UML Diagrams	34
High Level Application Network & Deployment Diagrams	35
Key Risks	37
Project Management	38

Data Definitions V2

Users: User can be registered or unregistered.

1. **Registered User - Student:** Registered user who is able to browse classes and schedule office hours with a professor.
2. **Registered User - Professor:** Registered user who is able to allocate hours for office hour scheduling and manage his/her appointments.
3. **Unregistered User - Guest:** Unregistered user who has the ability to search for professors and view their available office hours.
4. **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.

Priorities

Priority 1:

- 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 reserve a time slot
- 5) Professors shall be able to post their available time slot
- 6) System shall add schedules office hours to personal calendar
- 7) System shall add selected office hours to professor's calendar

Priority 2:

- 1) Users shall be able to edit profile
- 2) Users shall be able to search for their professor
- 3) Professor shall be able to restrict hours from being scheduled
- 4) System shall make reserved time slots unavailable
- 5) System shall check professor's calendar for free slot

Priority 3:

- 1) Users shall be able to specify which class they belong to
- 2) Professor shall be able to specify which class is allowed to schedule office hours
- 3) System shall send an email when a user signs up
- 4) System shall send email to student and professor when office hours scheduled
- 5) System shall send email to student and professor when meeting cancelled

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
------	-----------------------	-------------------	------------------------

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
------	-----------------------	-------------------	------------------------

Schedule your office hours here

Search for your professor: Jack Jones

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
----------------------	---------------------------------------	-----------------------------------	--

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

Home	Schedule Office Hours	Your Booked Hours	Welcome, (Name) Logout
----------------------	---------------------------------------	-----------------------------------	--

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
------	-----------------------	----------------	----------------------

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			
------	-----------------------	----------------	----------------------	--	--	--

Update Availability

November 2019

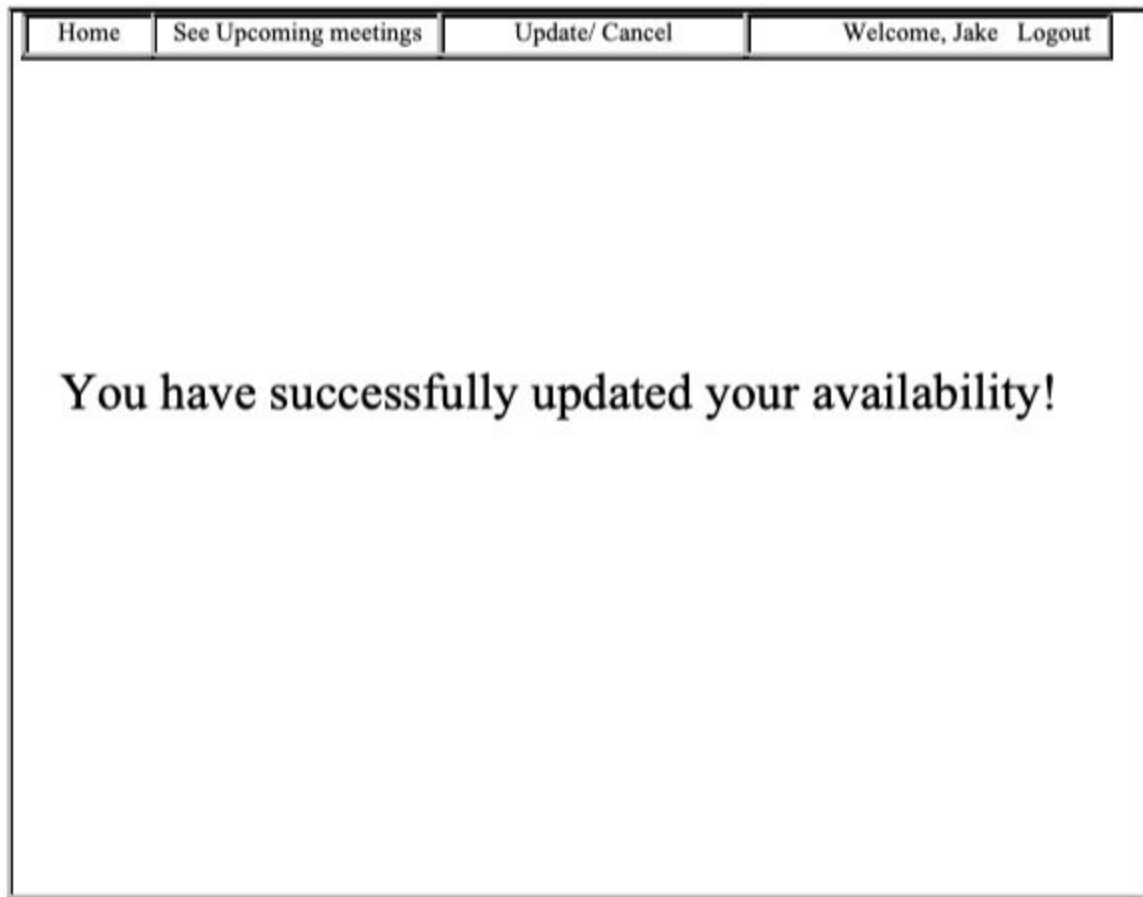
SUN	MON	TUE	WED	THU	FRI	SAT
					1	2
3	4 Open/Close (button)	5 Open/Close (button)	6 Open/Close (button)	7 Open/Close (button)	8 Open/Close (button)	9
10	11 Open/Close (button)	12 Open/Close (button)	13 Open/Close (button)	14 Open/Close (button)	15 Open/Close (button)	16
17	18 Open/Close (button)	19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

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

Update Availability

Open/ Close Availability

Date	Reason	Open/ Close Availability				
4 th November Monday	Select the following Option (Drop down Menu) <table border="1" style="width: 100%; margin-top: 5px;"> <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

Storyboards

 **Gator Dater**

Schedule Office Hours with Your Professor!



Welcome to Gator Dater!

Email


Password

Login

Don't have an account? [Create](#) 

Need help Logging in, [Click here!](#)

You can create an account by clicking this on the login page to register an account

 **Gator Dater**

Create Account

Name


Email

Are You

Student

Student

Professor




Major

Password

Confirm Password

Submit





A drop-down box to choose if you're a student or professor

After you are done entering in your credentials, you click the submit button to create your account.

 **Gator Dater**

Schedule Office Hours with Your Professor!



Welcome to Gator Dater!

Email


Password

Login


Don't have an account? Create one


Need help Logging in, Click here!


The login button takes us to the homepage of our website


 **Gator Dater**


Welcome Daniel Tomasevich, Logout


Account


Update


Calendar


Inbox


Help

Search for your Professor

jose


Jose Ortiz-Costa

On the home page, we have the search function for our professors. After searching and clicking on the professor, you get transferred to the website where you can schedule with them.







Firstname	Lastname	Class	About
Jose	Ortiz-Costa	CSC 648	I have not set an about me text yet.

Currently, this is the page that you get directed to, but it will change in the future



 **Gator Dater**


Welcome Daniel Tomasevich,Logout


Account 

Update

Calendar

Inbox

Help


Search for your Professor


Start Typing Professor Name


Clicking on the account will bring you to the screen where it shows you all your information. You can also edit your information on that screen.


 **Gator Dater**


Welcome Daniel Tomasevich,Logout


Account


Update


Calendar



Inbox


Help


Account Information


Name:	<input type="text" value="Name"/>	Add/Edit
Status:	<input type="text" value="Status"/>	Add/Edit
Courses:	<input type="text" value="Courses"/>	Add/Edit
Password:	<input type="password" value="*****"/>	Add/Edit
Update		


On this screen, you can edit your courses, password, status, and name.


 **Gator Dater**


Welcome Daniel Tomasevich,Logout


Account


Update


Calendar


Inbox


Help

Search for your Professor

Next, we click on the update tab to update our calendar scheduling for professors

Gator Dater Welcome Daniel Tomasevich, Logout

Update Availability

Please select date:

Please select Time:

Open/Close/Block ▼

- Open
- Close
- Block

Submit

Here, we can select the date and time we want to open.

This drop-down box is to choose either to open or close those time slots


Gator Dater Welcome Daniel Tomasevich, Logout

Search for your Professor

Start Typing Professor Name






Calendar

Next, we click on the calendar to go to our monthly calendar.


Gator Dater

Welcome Daniel Tomasevich,Logout

These two buttons move through the months of our yearly calendar



Account

Update

Calendar

Inbox

Help

PrevNext






November 2019

Mon	Tue	Wed	Thu	Fri	Sat	Sun
28	29	30	31	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	1

Clicking on a calendar date will take you to a separate page that displays if you have any scheduled appointments on that day.


Gator Dater

Welcome Daniel Tomasevich,Logout


Account

Update

Calendar

Inbox

Help

Search for your Professor

Start Typing Professor Name

The inbox will take you to your mailbox where you have messages from professors or notifications in general.



The screenshot shows the Gator Dater interface. The top navigation bar is purple with the Gator Dater logo on the left and the text 'Welcome Daniel Tomasevich, Logout' on the right. On the left side, there is a vertical menu with icons and labels: 'Account' (person icon), 'Update' (calendar icon), 'Calendar' (calendar icon), 'Inbox' (envelope icon), and 'Help' (question mark icon). The main content area has a light gray background. At the top of this area, there is a gray box with the text 'No new messages.' in a red-bordered box. Below this box, there is a red arrow pointing upwards. Further down, there is a paragraph of text: 'This page currently displays no messages because there are no current appointments or messages from professors.'

Gator Dater

Welcome Daniel Tomasevich, Logout

Account

Update

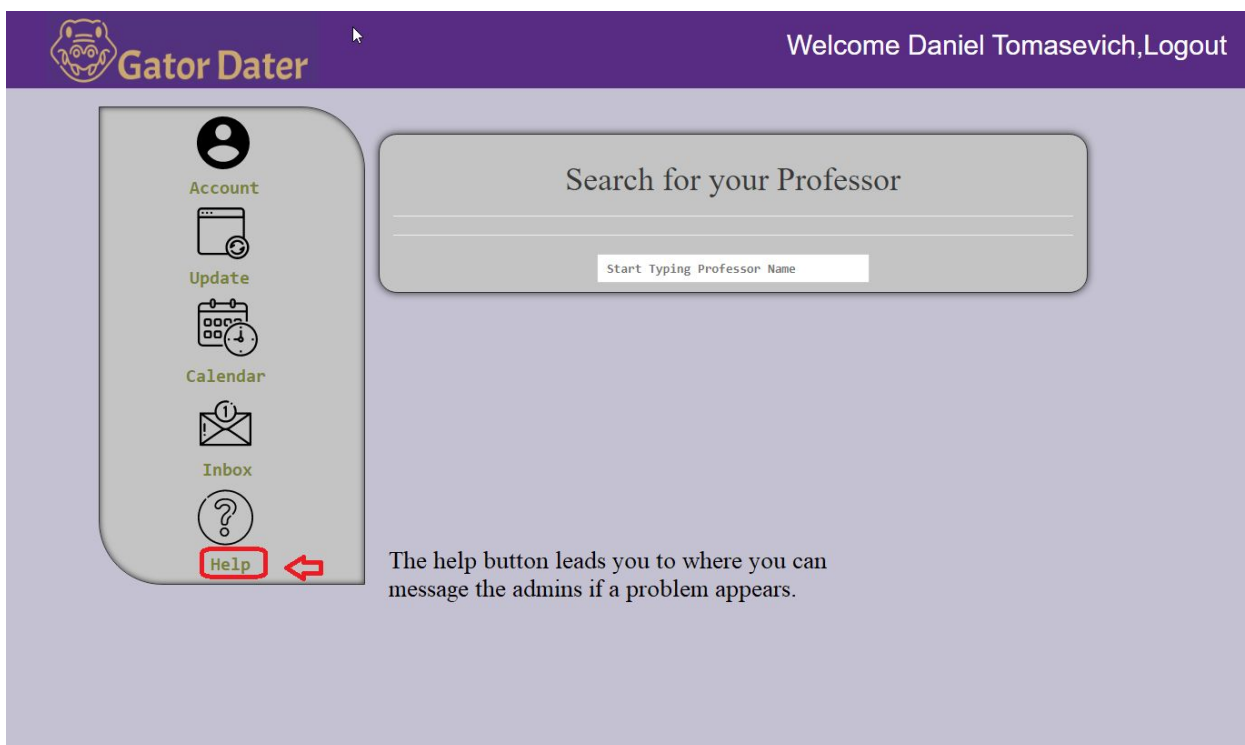
Calendar

Inbox

Help

No new messages.

This page currently displays no messages because there are no current appointments or messages from professors.



The screenshot shows the Gator Dater interface. The top navigation bar is purple with the Gator Dater logo on the left and the text 'Welcome Daniel Tomasevich, Logout' on the right. On the left side, there is a vertical menu with icons and labels: 'Account' (person icon), 'Update' (calendar icon), 'Calendar' (calendar icon), 'Inbox' (envelope icon), and 'Help' (question mark icon). The main content area has a light gray background. At the top of this area, there is a gray box with the text 'Search for your Professor' in a red-bordered box. Below this box, there is a text input field with the placeholder text 'Start Typing Professor Name'. Further down, there is a paragraph of text: 'The help button leads you to where you can message the admins if a problem appears.' A red arrow points from this text to the 'Help' button in the left menu.

Gator Dater

Welcome Daniel Tomasevich, Logout

Account

Update

Calendar

Inbox

Help

Search for your Professor

Start Typing Professor Name

The help button leads you to where you can message the admins if a problem appears.



Gator Dater

Welcome Daniel Tomasevich, Logout



Account



Update



Calendar



Inbox




Help

Please email tvajjhala@gmail.com with any concerns.


This page is where you can email our admins if there are problems.

35.203.131.184/m3/homepage.html




Gator Dater


Welcome Daniel Tomasevich **Logout**




Account




Update



Calendar



Inbox



Help

Search for your Professor

Start Typing Professor Name

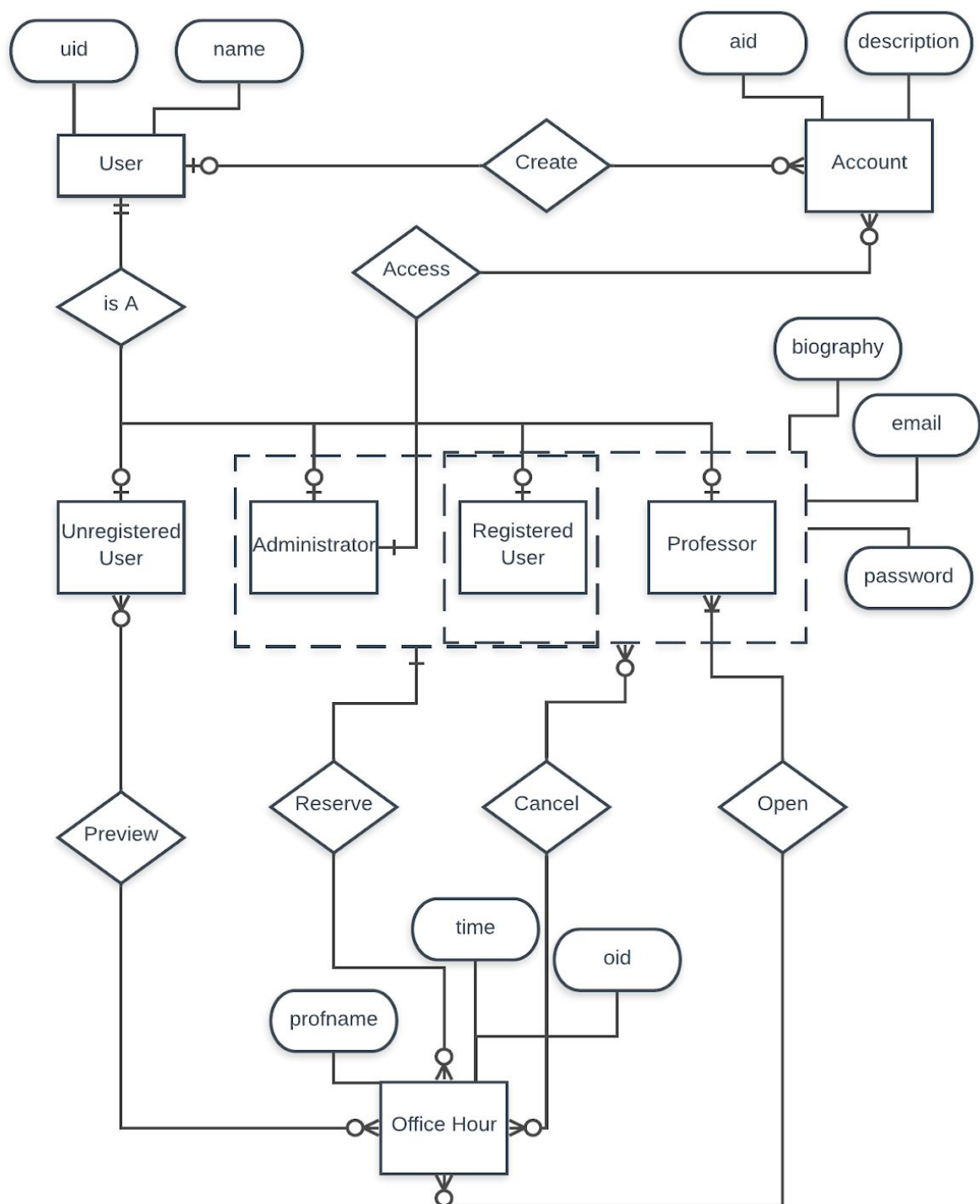
On every page, there will be a logout function. Clicking it will bring you back to the login page.

High Level Database Architecture and Organization

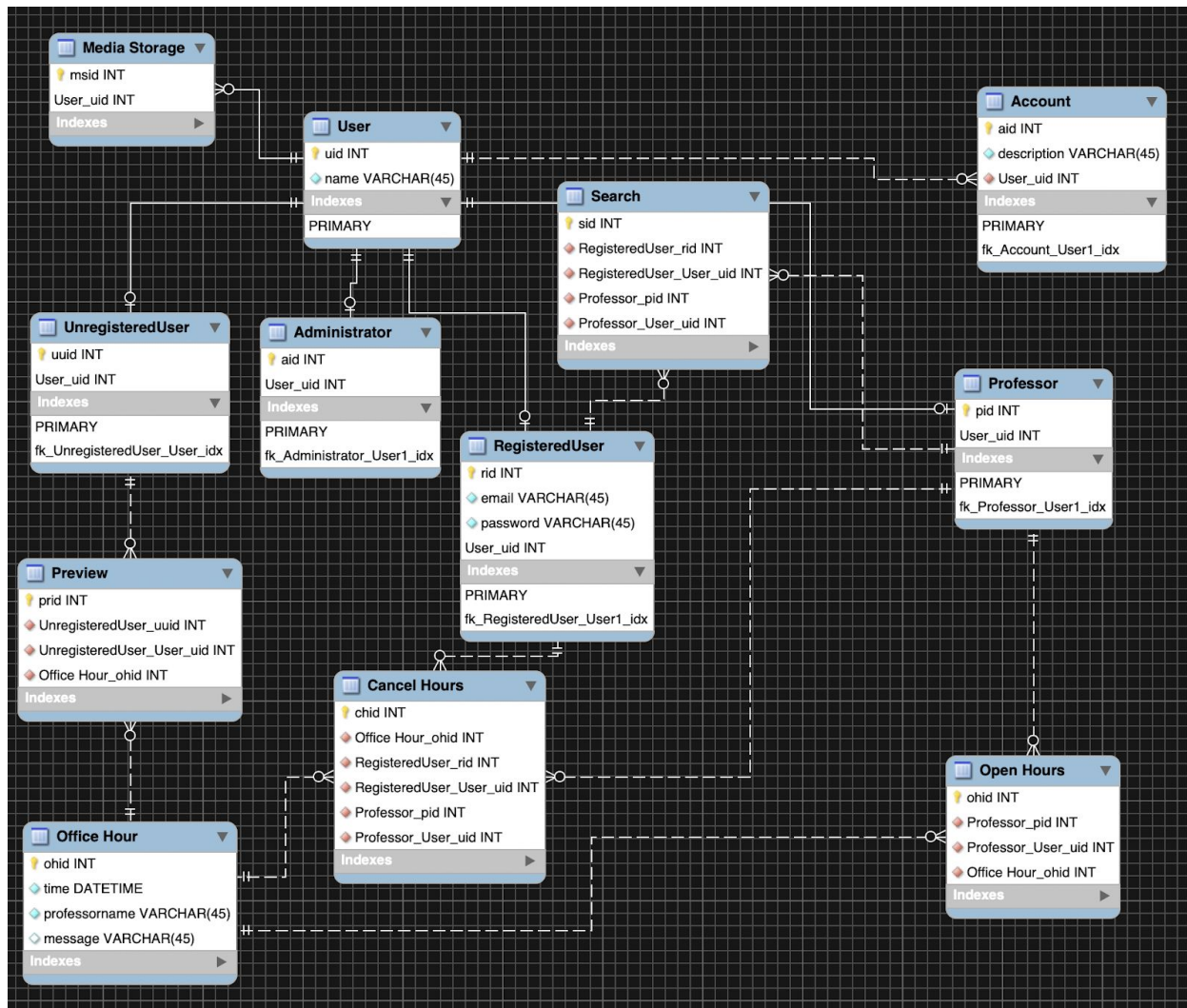
Business Rules :

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



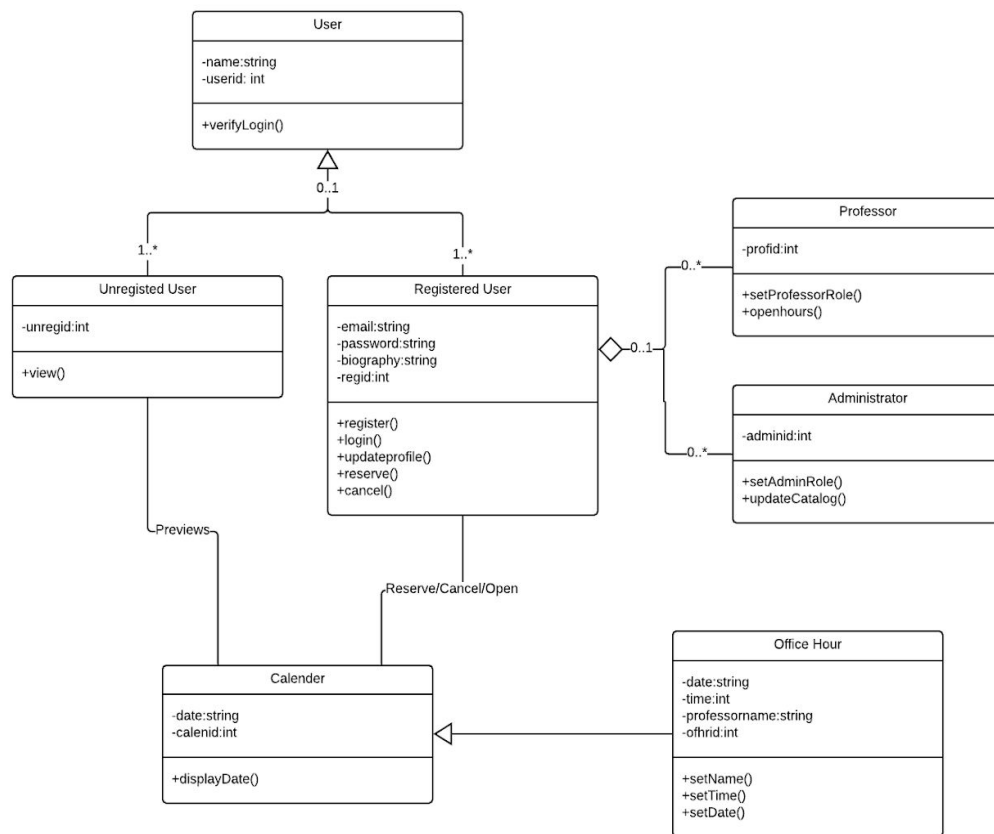
DB Model



High Level APIs and Main Algorithms

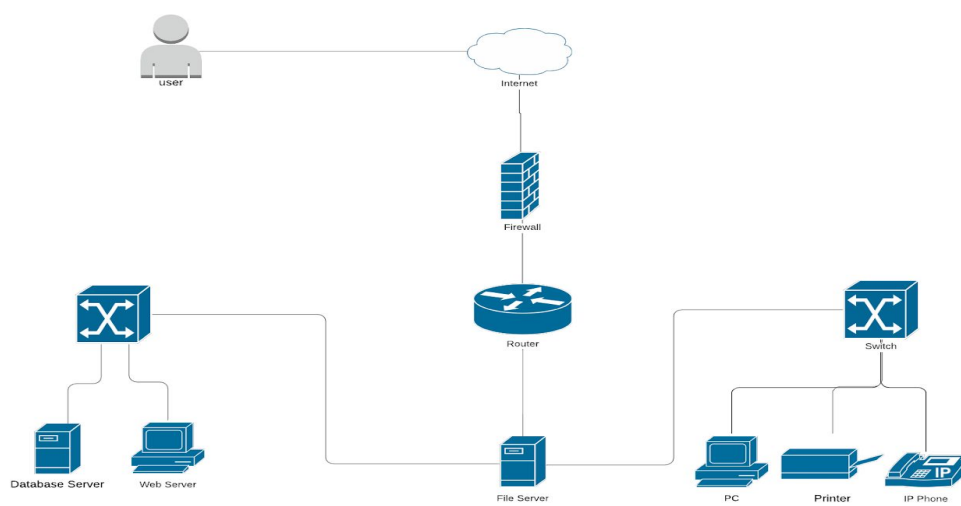
No real APIs are currently implemented or foreseen. Most of the backend communication will be via PHP -> MySQL connect and functions. We use POST requests to communicate with the backend, and bcrypt to hash the user's sensitive information before it is stored in the database. For search we currently use MySQL LIKE operator as that serves all our needs for the professor lookup. But in the future when we bridge our db with the frontend we may need to find another solution for other aspects of our software.

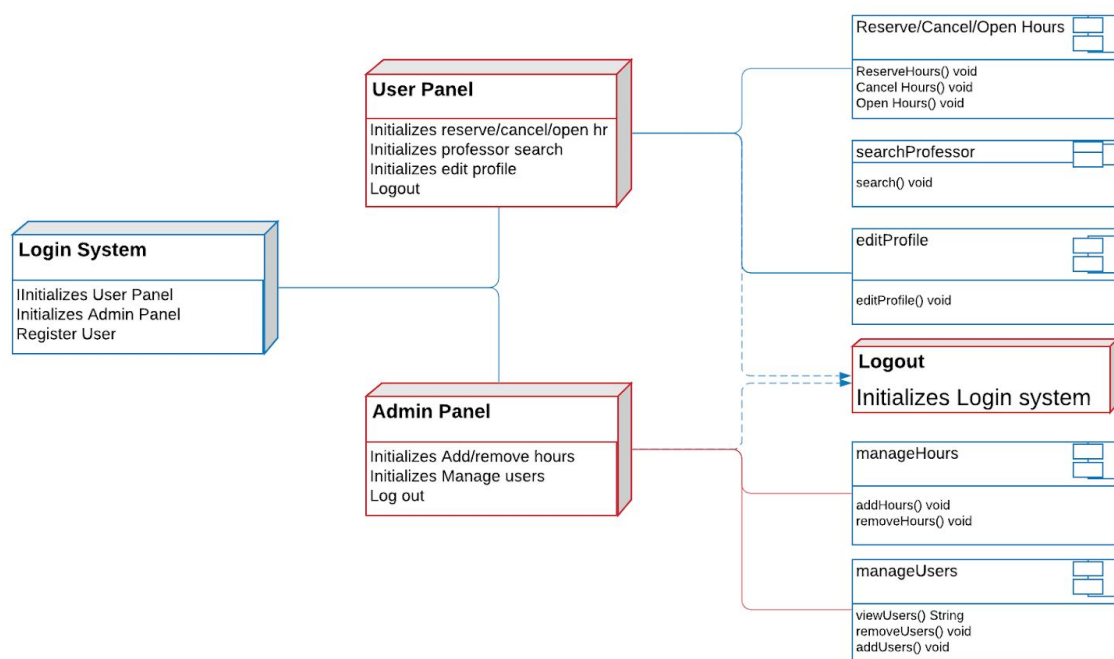
High Level UML Diagrams



The central class is the User. Associated with the User are an Unregistered User, Registered User, Professors and Administrator. Unregistered User are associated with only previewing the Calendar. While Registered User, Professors, and Administrator are able to reserve/cancel/open to a Calendar. The Calendar contains date each with its associated Office Hour.

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.