

Revision #: 2

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SW Engineering CSC 648 / 848 Fall 2019

Milestone 3:

Review Functionality, UI, SW and planning for final product delivery

# GatorDater

Team 204:

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Milestone	Version	Date Submitted For Review
Milestone 3	2	11/23/2019
Milestone 3	1	11/21/2019
Milestone 2	2	11/8/2019
Milestone 2	1	10/24/2019
Milestone 1	2	10/14/2019
Milestone 1	1	10/03/2019

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## 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) User shall be able to make an account
- 2) User shall be able to login
- 3) User shall be able to logout
- 4) User shall be able to access the office hour scheduling page
- 5) User shall be able to search for professors
- 6) Users shall be able to update their name
- 7) Users shall be able to update their password
- 8) Users shall be able to declare whether they are a student or professor
- 9) Users shall be able to contact the developers for any issues
- 10) Users shall be able to view a professor's open time slots
- 11) Students shall be able to reserve a time slot with a professor
- 12) Students shall be able to cancel their time slot with a professor
- 13) Professors shall be able to cancel their appointment with a student
- 14) Professors shall be able to block office hour days and time
- 15) Professors shall be able to specify their free time slot
- 16) Professors shall be able to update their name
- 17) Professors shall be able to update their password
- 18) Professors shall be able to contact the developers for any issues
- 19) Professors shall be able to view their appointments with students on calendar

### **Priority 2:**

- 1) Registered users can send messages to other registered users
- 2) Registered users can update their profiles
- 3) Registered users can add their courses
- 4) Professors shall be able to be verified by an admin

### **Priority 3:**


- 1) Upon reservation/cancelation, notifications will be sent towards both registered users
- 2) Registered users can input events into calendar
- 3) Users can receive a text message notification on their phone
- 4) Professor shall get an alert notifying the end of an appointment

## UI Mockups and Storyboards

### Navbar:



- Home
- Update/Courses (depending on Professor/Student status)
- Calendar
- Inbox
- Help
- **Register/Login/Logout:** Popup in the top right corner.

### Login Page:



**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**


### Schedule Office Hours with Your Professor!



**Welcome to Gator Dater!**

Email

Password

**Login** 

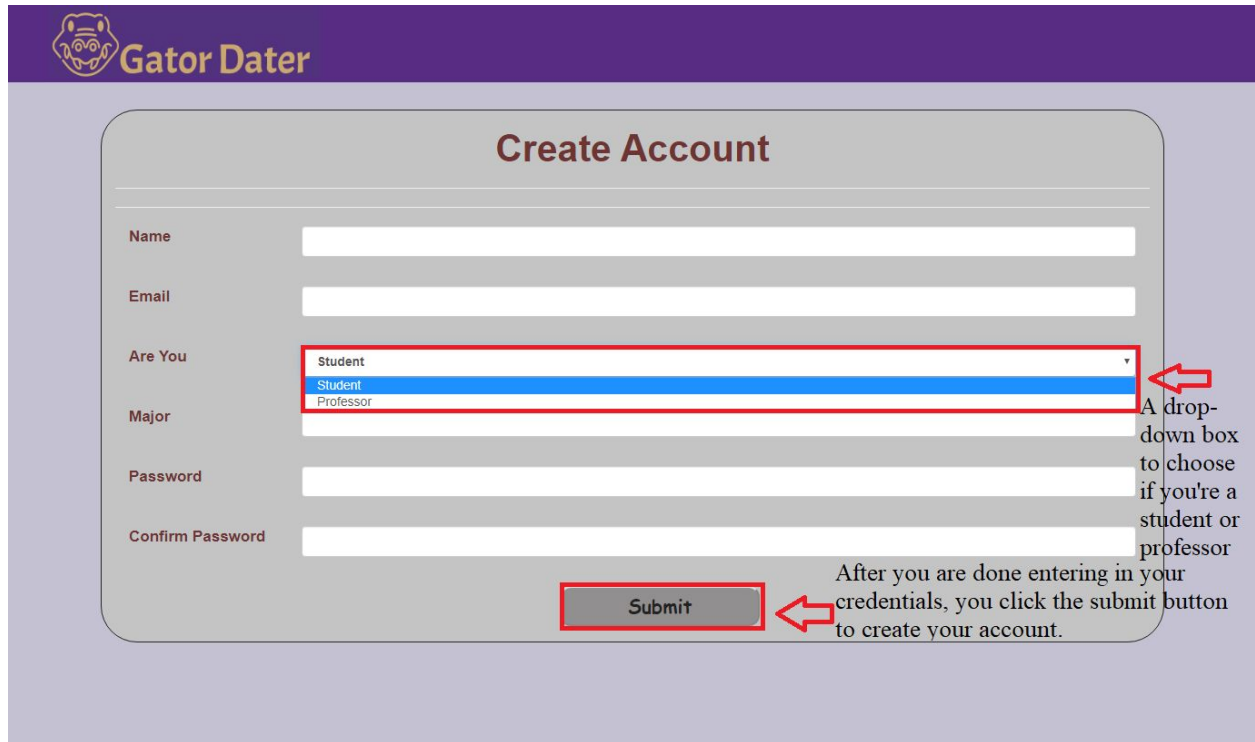
Don't have an account? **Create**

Need help Logging in, Click here!

The login button takes us to the homepage of our website

## 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 browse

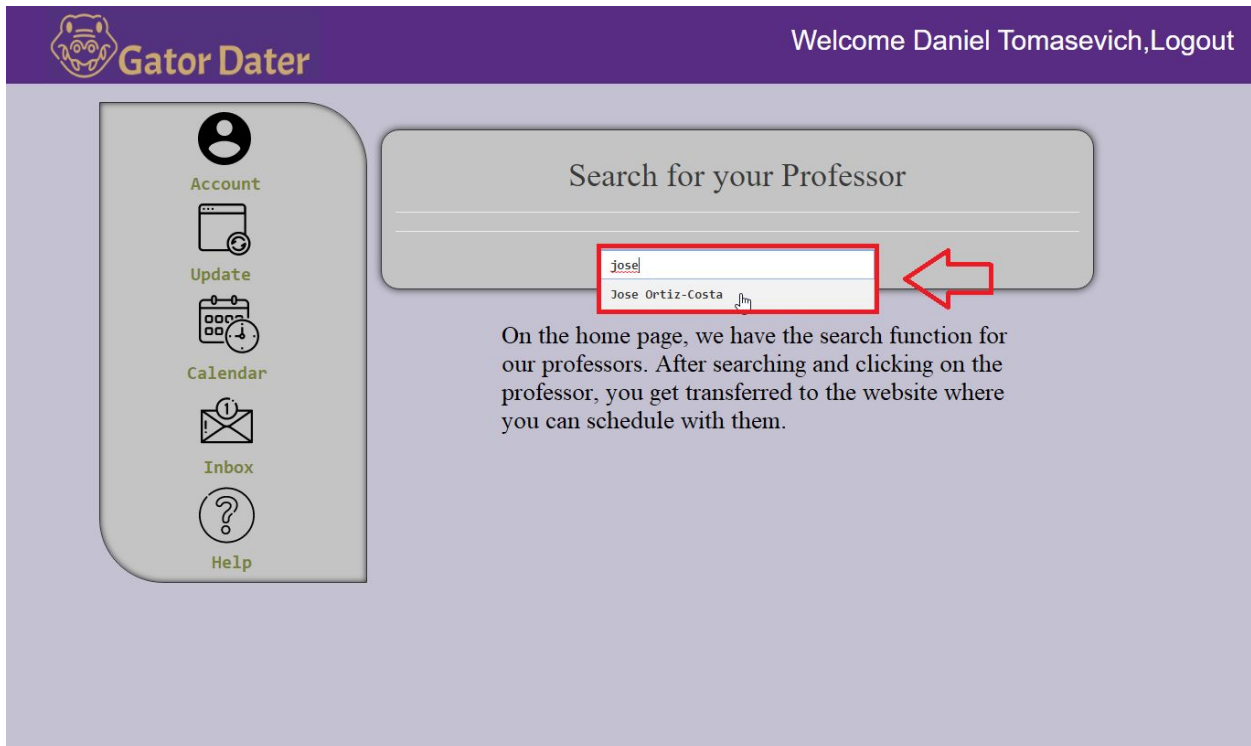


The screenshot shows the 'Create Account' form on the Gator Dater website. The form is titled 'Create Account' and includes the following fields:

- Name
- Email
- Are You: A dropdown menu with options 'Student', 'Student', and 'Professor'. The 'Student' option is highlighted in blue. A red box and arrow point to this dropdown.
- Major
- Password
- Confirm Password

A red box and arrow point to the 'Submit' button at the bottom of the form. To the right of the form, a text annotation reads: 'A drop-down box to choose if you're a student or professor'. Below the form, a text annotation reads: 'After you are done entering in your credentials, you click the submit button to create your account.'

## User Home Page/Professor Search:



The screenshot shows the Gator Dater user home page. At the top, a purple header bar contains the Gator Dater logo on the left and the text "Welcome Daniel Tomasevich, Logout" on the right. Below the header, the page is divided into two main sections. On the left is a vertical sidebar with a light gray background and rounded corners. It contains five icons with corresponding labels: a person icon for "Account", a calendar icon for "Update", a calendar icon for "Calendar", an envelope icon for "Inbox", and a question mark icon for "Help". On the right is a large light gray rounded rectangle titled "Search for your Professor". Inside this rectangle is a search input field with the text "jose" entered. Below the input field, a dropdown menu shows the search results "Jose Ortiz-Costa" with a small mouse cursor icon next to it. A red arrow points from the right side of the search bar towards the dropdown result. Below the search bar, there is a paragraph of text: "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."

**Gator Dater** Welcome Daniel Tomasevich, Logout

**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





## User Scheduling Page:

First, we see a calendar with open time slots after clicking on a professor's name. Then we select the time slot a student wants and then get to book that time slot.

 **Gator Dater** Jacob Pluto, Logout

  
**Account**

  
**Courses**

  
**Calendar**


  
**Inbox**


  
**Help**


Daniel Tomasevich Hours


Today ← → January 2020 Week Month +


SUN	MON	TUES	WED	THURS	FRI	SAT
		1	2	3	4	5
6	7 Open	8	9 Open	10	11	12
13	14 Close	15	16 Open	17	18	19
20	21 Close	22	23 Open	24	25	26
27	28 Close	29	30 Open	31	1	2


 **Gator Dater** Jacob Pluto, Logout

  
**Account**





  
**Courses**

  
**Calendar**


  
**Inbox**

  
**Help**


Jan 7, 2020 - Monday


	3:00pm	Open	Add to your Calendar
	3:15pm	Close	
	3:30pm	Open	Add to your Calendar
	3:45pm	Open	Add to your Calendar


## User Confirming Appointment:


**Gator Dater**


Jacob Pluto, Logout

  
**Account**

  
**Courses**

  
**Calendar**


  
**Inbox**

  
**Help**


### Confirmation


Jan 7, 2020 - 3:30pm  
Appointment with  
Daniel Tomasevich  
has been added to your Calendar.


## User Cancelling Appointment:


**Gator Dater**


Jacob Pluto, Logout

  
**Account**

  
**Courses**

  
**Calendar**


  
**Inbox**

  
**Help**


### Cancel


Jan 7, 2020 - 3:30pm  
with  
Daniel Tomasevich  
has been Cancelled.


## Professor Cancelling Appointment:


 **Gator Dater**


Daniel Tomasevich, Logout

  
**Account**

  
**Update**

  
**Calendar**

  
**Inbox**


  
**Help**

### Confirmation


---


Jan 7, 2020 - 3:30pm


Are you sure you want to Cancel this appointment?  
Please Confirm.


 **Gator Dater**


Daniel Tomasevich, Logout

  
**Account**

  
**Update**

  
**Calendar**

  
**Inbox**

  
**Help**


### Cancel

---


Jan 7, 2020 - 3:30pm


Appointment with  
Jacob Pluto  
has been Cancelled.


## Professor Update Page:


 **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

  
Account

  
**Update**

  
Calendar

  
Inbox

  
Help

### 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


## Professor Calendar:


**Gator Dater**


Welcome Daniel To

  
Account

  
Update

  
**Calendar**


  
Inbox

  
Help


Search for your Professor


Start Typing Professor Name


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


**Gator Dater**


Daniel Tomasevich, Logout

  
Account

  
Update

  
**Calendar**

  
Inbox


  
Help

Today ← → January 2020 Week Month +


SUN	MON	TUES	WED	THURS	FRI	SAT
		1	2	3	4	5
6	7 Meeting at 3:30pm Cancel	8 Blocked Open	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	1	2


Here, we can see blocked dates and meetings that have been scheduled


## Student/Professor Inbox:


 **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.


 **Gator Dater**


Jacob Pluto, Logout

  
Account

  
Courses

  
Calendar

  
Inbox


  
Help

Inbox


Your appointment has been accepted.


You cancelled your appointment with Daniel Tomasevich.


## Professor/Student Help


 **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**


Daniel Tomasevich, Logout

  
Account

  
Update

  
Calendar

  
Inbox

  
Help

Help

Email:

Title:

Please type your message:

Submit

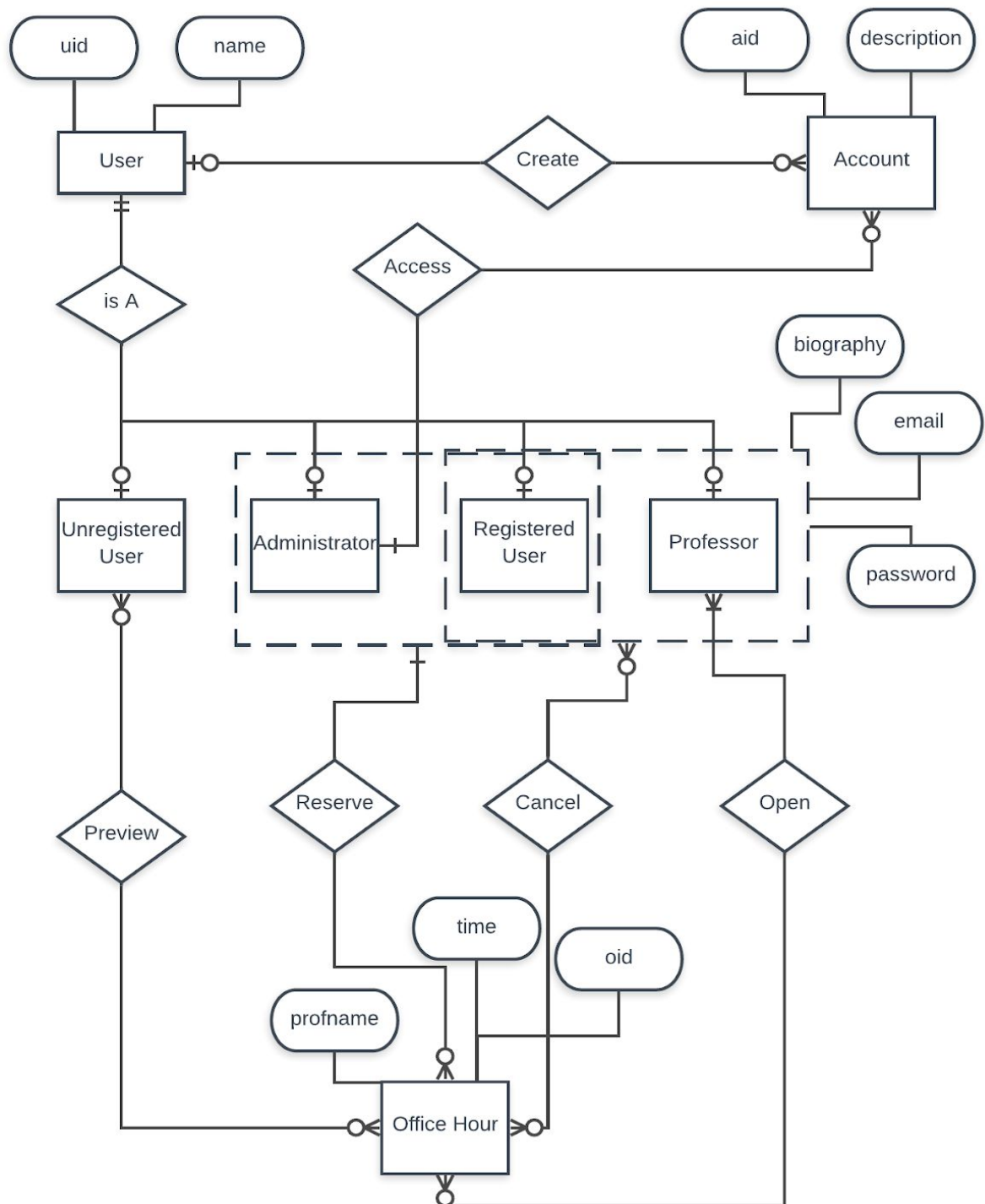
## High Level Database Architecture and Organization

### Business Rules :

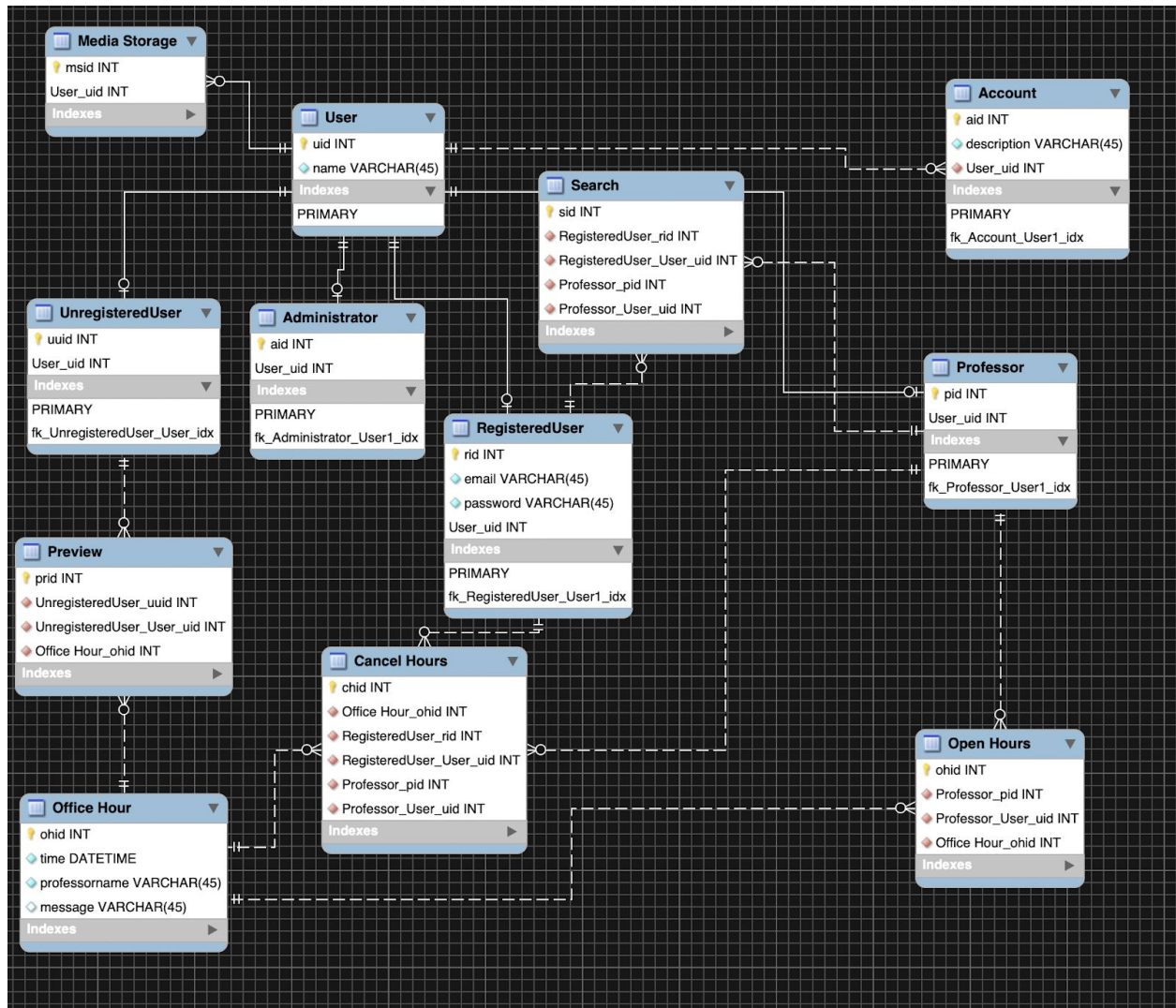
1. Users can create multiple accounts
2. A registered user can reserve unlimited office hours
3. A professor can open multiple office hours
4. Each office hour is reserved by only one registered user
5. Unregistered users can preview unlimited office hours
6. A registered user can cancel unlimited office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



ERD:



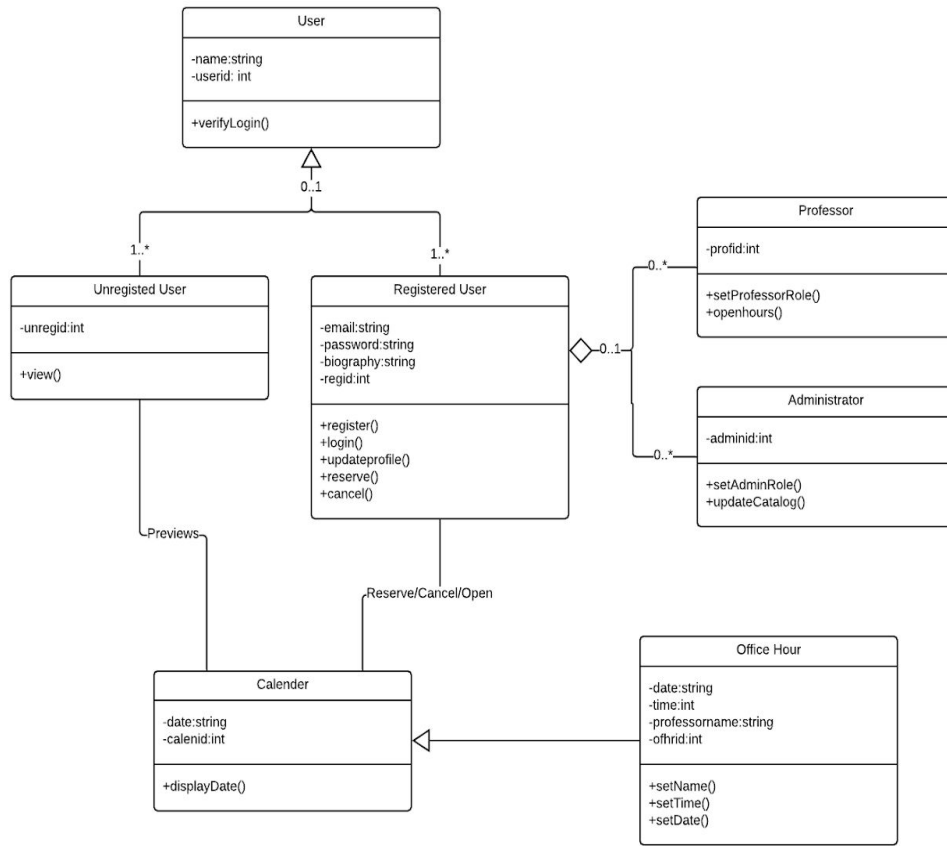
## DB Model



## **High Level APIs and Main Algorithms**

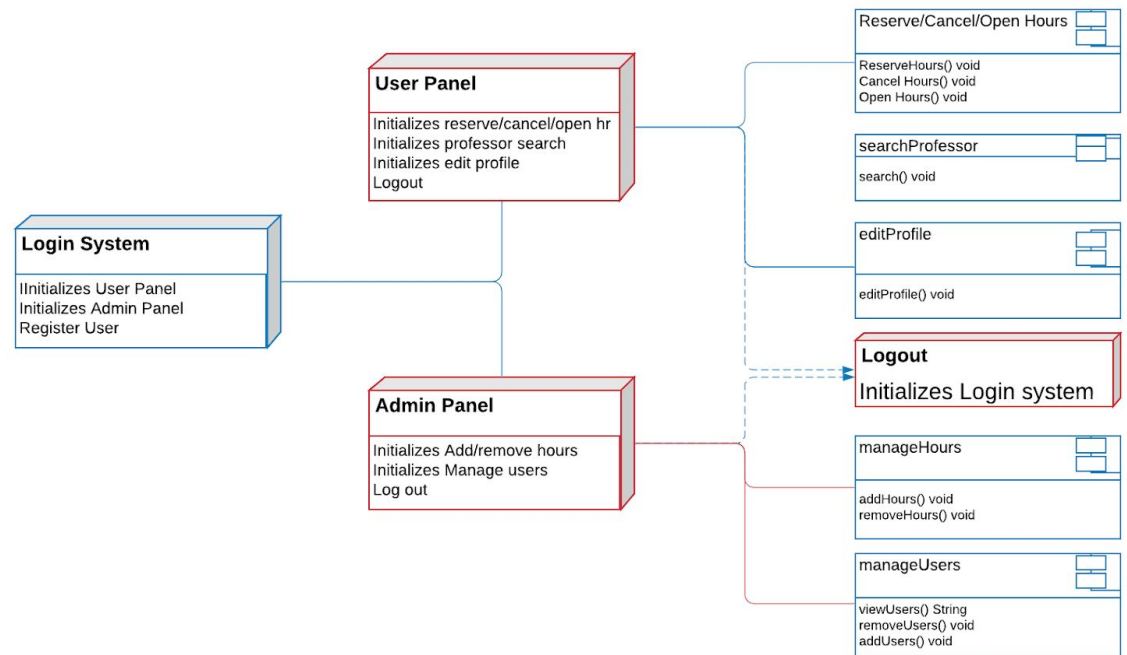
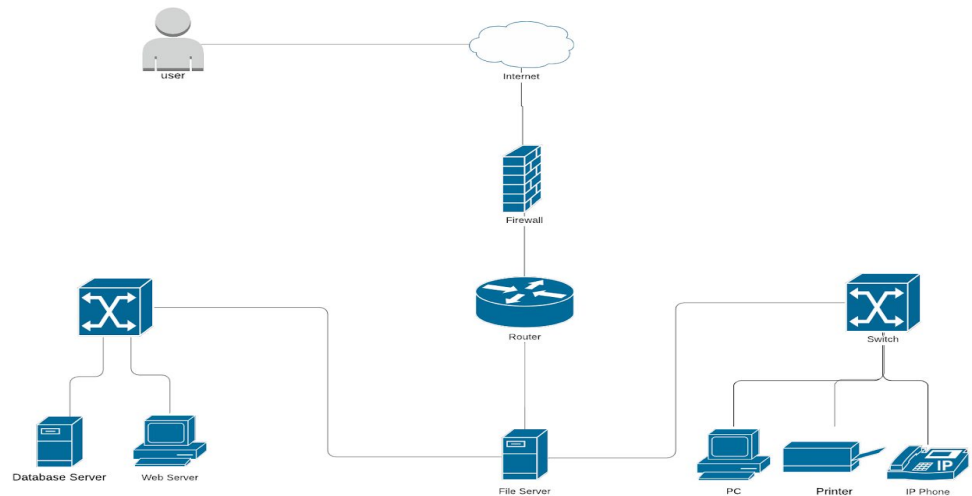
No real APIs are currently implemented or foreseen. Most of the backend communication will be via PHP -> MySQL connect and functions.

## 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, Professor, and Administrator are able to reserve/cancel/open to a Calendar. The Calendar contains date each with 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.

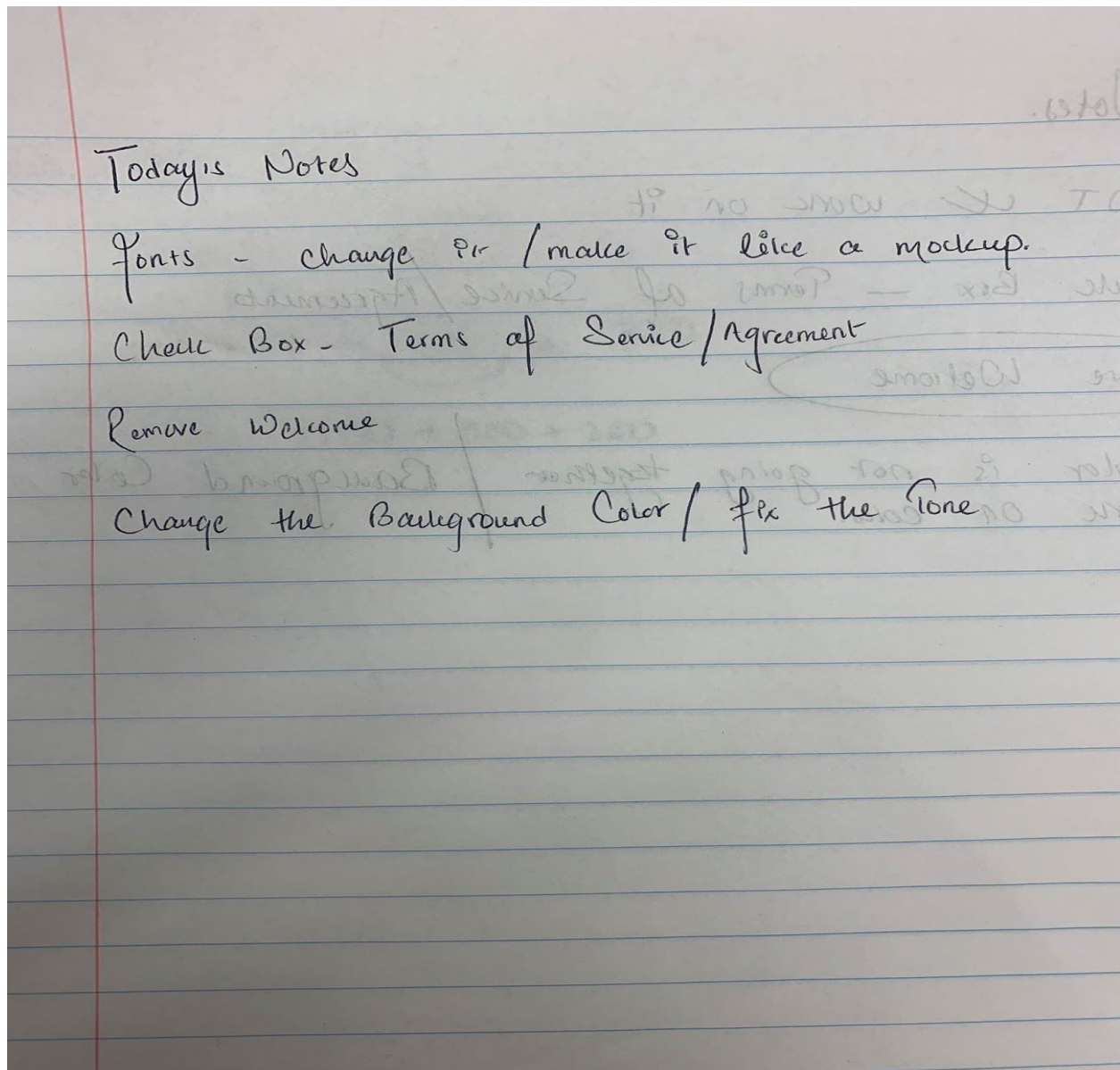
**Teamwork risks:** None so far, each team member is putting in effort and doing their best.

**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 through the use of trello. Where I was able to notify the team on what needed to be worked on. 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.

## UI and Functionality feedback



The major takeaway from the UI review was the change of color scheme and fonts. As some fonts were considered to be hard to read or inconsistent from page to page. In addition, towards the UI, the background color was suggested to be changed to something lighter and easy on the users eyes. As we take Jose's feedback and implement it into the new and improved UI, we have fonts that are all consistent and easy to read, white color background, and Terms of Service/Agreement for the registration page.



## Offline Review

### CSC648-848 Software Engineering: Offline M3 Check



Jose Ortiz Costa (via ilearn) <jortizco@sfsu.edu>

Fri 11/22/2019 5:50 PM

Aaron Li ☑



Hi all,

I finished the offline check for M3. There are some minor problems that need to be solved in your repositories, but in general everything seems in order. I was going to send individual reports to the each team lead, but I decided to write a general email, instead, because most of those problems are generalized across all the teams.

#### Some common problems in your repositories that need your attention (if applicable)

1. Some teams haven't updated the main README file yet. That was a M0 task. The main README file should contain your names, roles, name of your project, a small description of the services and functionalities provided by your project (1 or 2 sentences max), and the url to your site. Fix this ASAP before M4 (if needed)
2. I took a quick look into your V2 documents of each milestones, and I saw that a few teams are not addressing the problems stated in V1 of those milestones. I must remind you that V2 of each milestone is the one that will be graded,
3. Contributions to the repo are not balanced. I see students with a lot of commits done, and I see other students from the same team with little commits. Again, number, content, and quality of work in commits is also graded. In addition, quality of the commits comments are graded as well. In the software industry, an excellent comment in a commit can save a lot of headaches and money when a bug needs to be fixed.

#### General comments about your horizontal prototype:

1. I told you this many times in class: simplicity is not equal to simple design. Simplicity in SW engineering is related to the concepts of a product being easy to use, and usable. Take that into consideration when you are doing your UI refactoring for M4 and M5. This is not a SW development class where you can do a simple project and you don't look back to it anymore. This is a SW engineering class and the quality of your project is part of your grade. So, keep that in mind. Also, your home page should state clearly what services your product is going to offer in a few words.
2. Yesterday, many teams did not implement all the storyboards. In addition, there were teams which horizontal prototype was a totally different version than the storyboards they brought to me. This is not acceptable in this class. This prototype was not graded, but make sure that your final UI is similar to your storyboards. Storyboards and mockups are there for a reason, and they represent the vision from the client about their needs in the product. If you change this, then you are putting your needs before the needs of the client.
3. I got many reports from team leads that students are committing to the repository or sending work at the last minute, and in some specific cases, just not sending any work at all. This is not acceptable in this class, Every time you commit or submit work to your team leads, they need time to review the work to make sure that everything is in order, and the quality of the work the one expected.

Please if some of the above apply to your team fix them ASAP.

Happy thanksgiving to everyone, and I'll see you in next class.

Jose.

Based off the offline review and in-person meeting, our team doesn't fall within those criterias/problems mentioned within the general mail.