

# Book-A-Study Room

## **Deliverable #5**

November 8<sup>th</sup>, 2018

The logo for HAXORS is displayed within a dark blue rectangular box with a light blue border. The word "HAXORS" is written in a bold, yellow, sans-serif font.

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### **Client organization:**

Vanier College Library

### **Client name:**

Haritos Kavallos

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## Executive Overview

In this deliverable, we have to present a potential prototype to the client, by sketching out our ideas on paper, and then finalizing it on the computer with the client himself. It's important that the client also understands that this is merely just a prototype, and that half of the things we plan out with him/her won't be completed. In our case, we presented to Haritos what we were planning on creating for him, and alongside him, we showed him the sketches we made prior to meeting with him, and made the modifications he requested of us. After showing him the paper designs, we created them on the computer, and showed him the digital copies, and modified it based on his requests.

The narrative description of the future information system is a summary of what the client/actors would like to be able to do with the prototype we wish to implement for them. In our case, we would like to build a booking system for the study rooms at Vanier College. Based on the meeting we had with both Haritos, and the librarians, we received specific information about their interests and needs from this prototype. Throughout this section of the deliverable, we summarize and describe those points.

We met up with Haritos, and proceeded to create a prototype. In this deliverable, you'll find the first and last copies of our rough sketches that we hand-drew with the client, as well as the initial and final computer design copies of the prototype design. We have several pages for this prototype, including things like our login page, sign up page, how a student would book a potential study room, and a page specifically for admins and librarians to have access to their own person data; data students wouldn't be able to see.

Following that, there's a section in the deliverable that explains, in detail, what changes were performed throughout our design process. When we initially sketched out each different page for the prototype on paper, we went to work with Haritos to modify elements based off of his preference, and we created new sketches with what he wanted. Once we knew for sure how he wanted the design to look, we were able to digitally create them, and have him skim through those, as well, and offer his comments. We explain that process in the deliverable.

In Appendix 1 is where you will find all our user stories that we did previously. We had to create 30 of them, all based on the actors that will be taking part in our future system. The user stories were created in deliverable #4. We had developed our user story cards based on the meeting we had with the client a couple of weeks ago. We didn't add or change any of the stories for this

deliverable, so in this appendix, you'll find the same scans of the story cards, and their explanation.

In Appendix 2, you can also find the tests we performed for our user stories. Since our user stories didn't change, that means that our user story tests didn't change either. Each user story still has 2 possible tests to verify the credibility of our system, and the information it provides. On the front of the user story card, we wrote the actual story, and on the back has both tests explained in detail. Attached to this appendix is also the photo of the user story card we included in appendix 1, with descriptions of all the others.

## **Summary narrative description of project**

Nothing has changed since the last deliverable in terms of the project description.

Our plan, as a team, is still to implement a booking system for Haritos, the librarians and students/teachers, in order to use the study rooms. The way this system would work, hypothetically, is that the admin, Haritos, would have access to the entire system, with privileges to the more complex and confidential data, as well as statistics (who's booking the room, students from which program, during what times are they being booked, etc.).

The librarians will be able to make changes in the system, as they are the ones in charge of keeping track of bookings, and the students/teachers will only have access to the reservation system, but no confidential data.

We had met with our client and the librarians during our previous deliverable, so that's when we discovered a few different things that they would like to be able to do with the prototype to solve their problem.

The administrator, which in this case, is Haritos, wants to be able to perform 4 important actions with the reservation system. Haritos wants to be able to access some type of analytics page, because he wants to keep track of statistics. As per what he told us, he wants to be able to see what type of students are reserving the study rooms (i.e. students from which program), and he wants to be able to see during what times the rooms are being booked the most often (i.e. specific days of a certain month/specific hours in a day). As an admin, he also wants to have access to the database to be able to make changes to the actual system's data. In other words, when, for example, a student graduates, he wants to be able to remove them from the database, that way they can no longer book a room after they've left the college. Lastly, he wants to be able to modify a student's privileges, that way if they misuse the

room, he can also remove them from the database, and have them not book a room again, and vice versa to give them their privileges back with good behaviour.

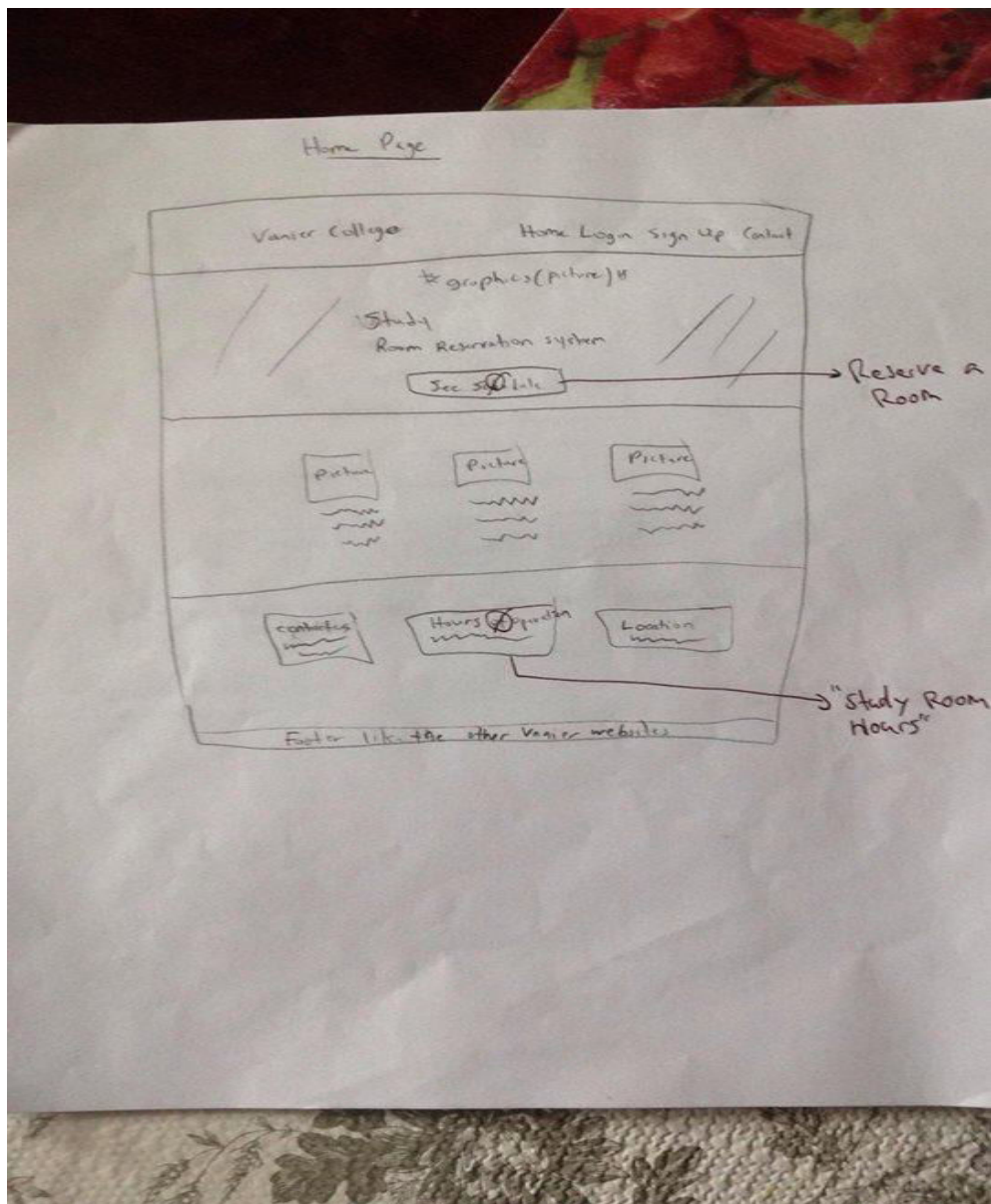
The librarians have more of a role for the usage of our booking system, as they are the ones that control which students book a room, and keep track of when they check in and out. We spoke to one librarian, and asked for her opinion on the implementation of a booking system; we also wanted to know what she wanted to do with this particular system. The librarians, as a whole, should be able to perform several more tasks than the admin. For starters, the librarians want to be able to add/remove a student's reservation, in case it was a false booking, or the student changed their mind, etc. They should also be able to manage the availability of the rooms, as in, they could go into the reservation system to see which time slots are currently available, in the event that the student goes up to them the day of a potential booking, and have the librarian reserve for the student themselves. That also relates to being able to change a booking time. The librarians want to be able to modify a booking time of a specific room. Since the study rooms have a rule that states if a student shows up 15 minutes late to their booked study room, they are charged a fine and no longer have rights to that room, then the librarians requested to have a way of knowing when the time limit was surpassed, and they also want to be notified. In addition to that, the librarians mentioned that it would be nice to have a way of adding notes to a particular student's file, that way when they book a room, they could see if they've ever misused it and prevent them from booking again. Lastly, since there are 4 study rooms and 1 music room, the librarians want to have a way of knowing what specific type of room was booked by the students.

Students/teachers have the same role for the reservation system. Both actors want to be able to do the same thing: reserve a study room. We worked with Haritos to develop possible things a student and/or a teacher would like to get out of a booking system for the study rooms. To begin, both students and teachers would want to be able to have access to the schedule, that way they can see which rooms are available, and see which time slots aren't reserved. In relation to that, they're going to want to have the right to book an actual room, either ahead of time, or on the day of their anticipated booking. Both the students and teachers would want to have access to the system via Omnivox, specifically because it's the primary site they log in to. Both actors would see it differently, but will have the option to access the link from the school account. Furthermore, both teachers and students will be able to create their own account using school email to reserve the rooms. The difference between a student and a teacher is that a student would create a regular account, and a teacher would create a teacher account to have the opportunity to create a class booking to hold a lecture (although they still wouldn't be able to exceed

the limit amount of people per study room). Both students and teachers would want to be able to modify their account information, and they will also not have the right to modify that of another student/teacher. Lastly, both actors would want the right to cancel their reservation.

The ideology of the prototype isn't much different than when we discussed it last time with Haritos. The only difference for this deliverable is that we now have sketches of our ideas on paper, and on the computer. We were able to imagine what the client would like his prototype to resemble, and with that, created visual representations of it as a team.

## First and last paper prototype



LOGIN PAGE

HEADER

Welcome back!

Email address:

Password:

Don't yet have an account? Click here to sign up.

FOOTER



SIGN-UP PAGE

---

HEADER

Welcome to the sign up page for Vanier College's study room bookings.

Please fill out all the following information.  
(\* required)

First Name\*:

Last Name\*:

Student ID\*:

Email address\*:  → your vanier email  
(ex. 000000@edu.vaniercollege.ca)

Program:  ☒ ← pre-populate drop down.

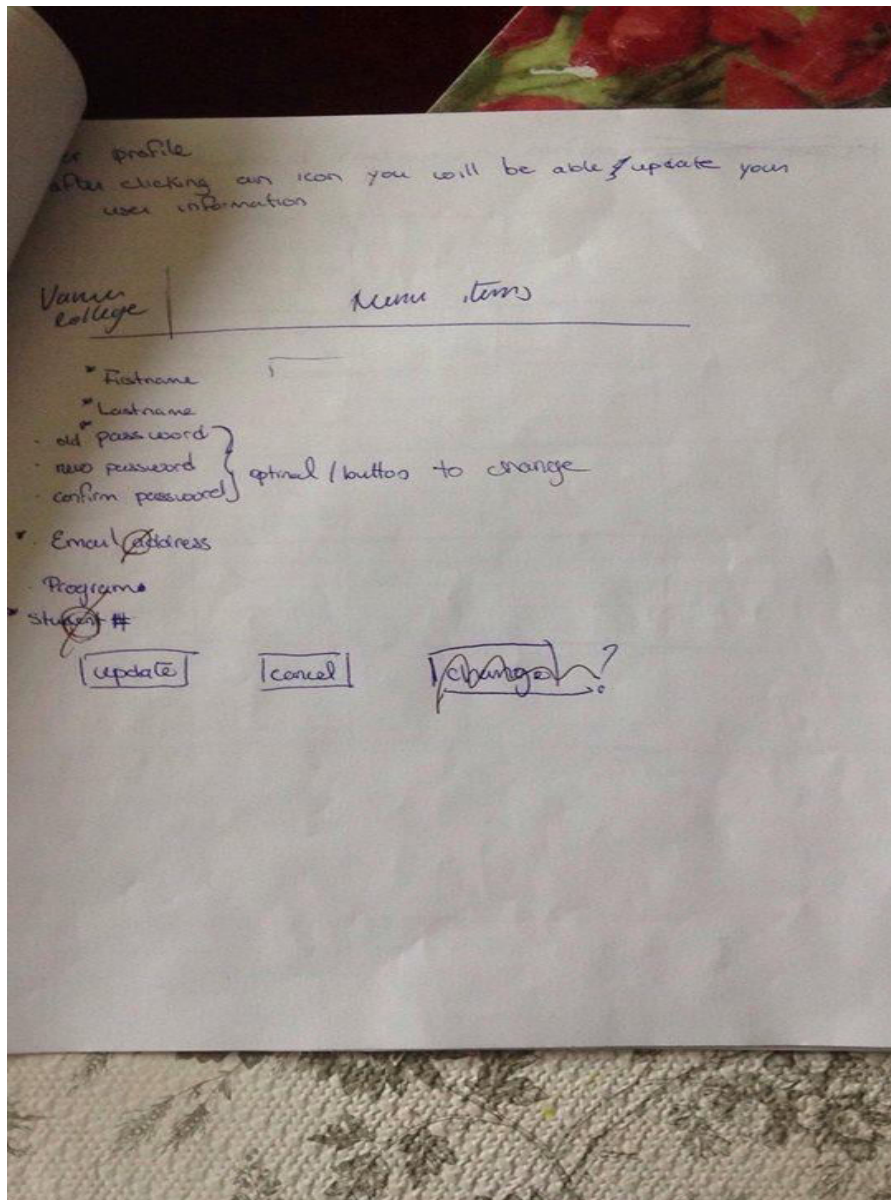
Password\*:

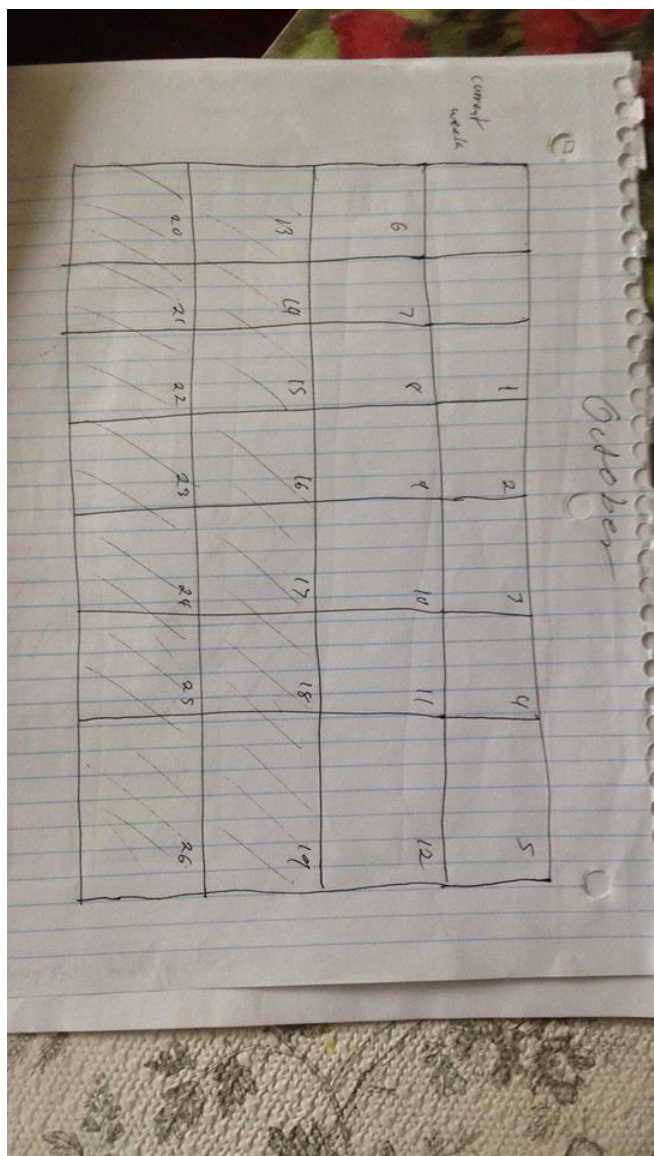
Confirm password\*:

---

FOOTER







Editing page Edit button visible for librarians only

Unavailable Booked

Room 1	Room 2	Room 3	Room 4	Hostel Room	Available
Booked	Available				
12:00-15:00 Booked		12:00-15:00 Booked			
	Unavailable				

Library staff should see: Student ID name.

edit page / pop-up box

### Details

Status

Starting

Ending

### Members

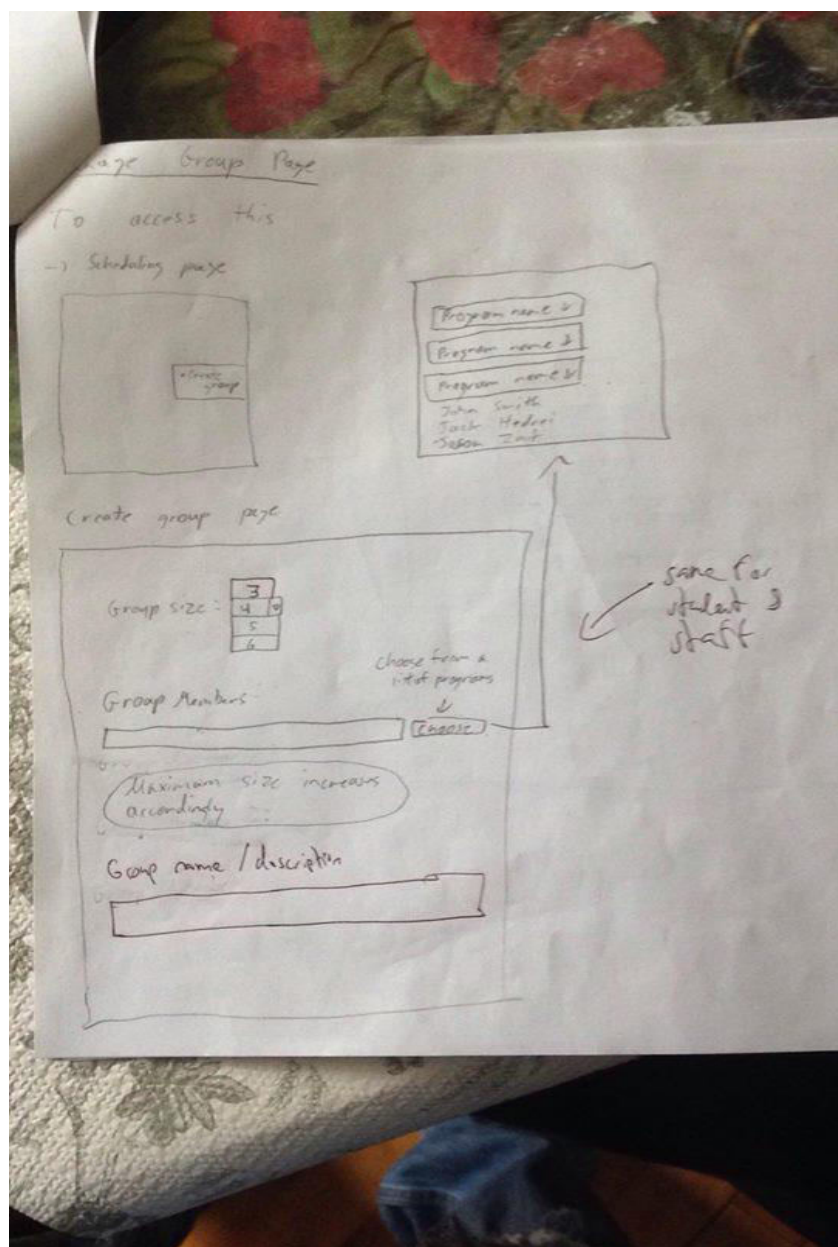
Tacki Sam

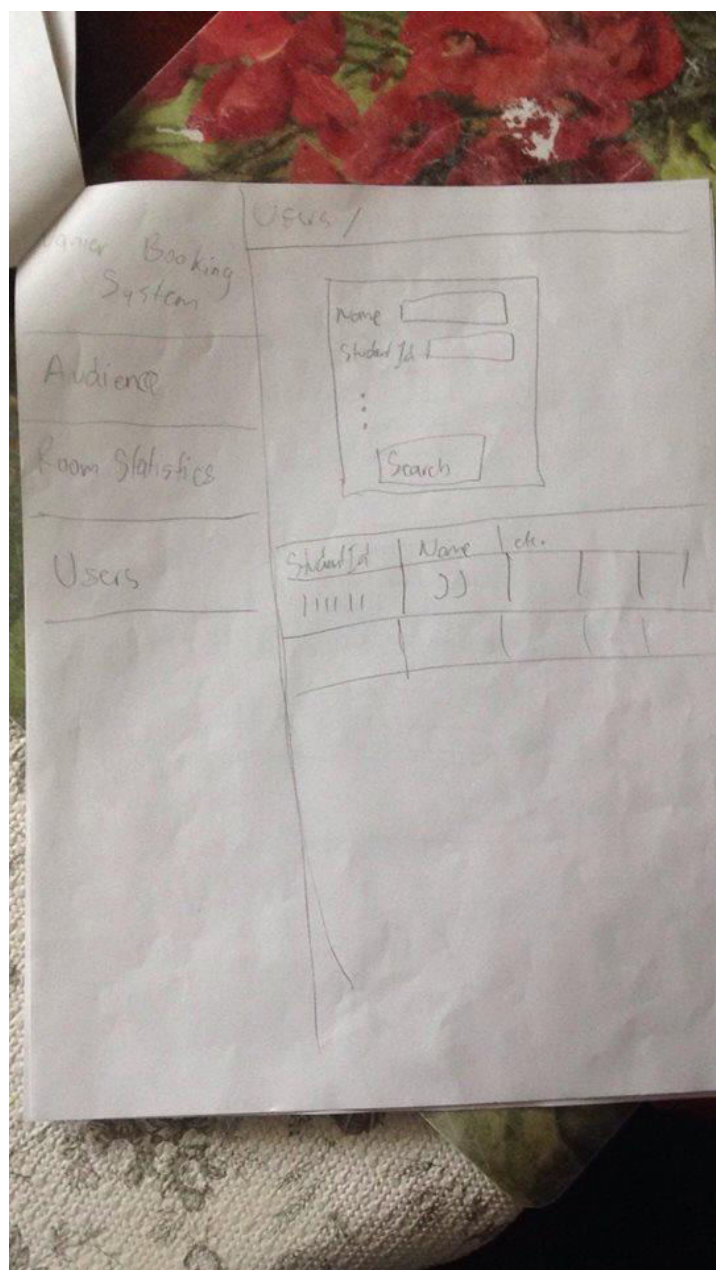
Bruno Mars

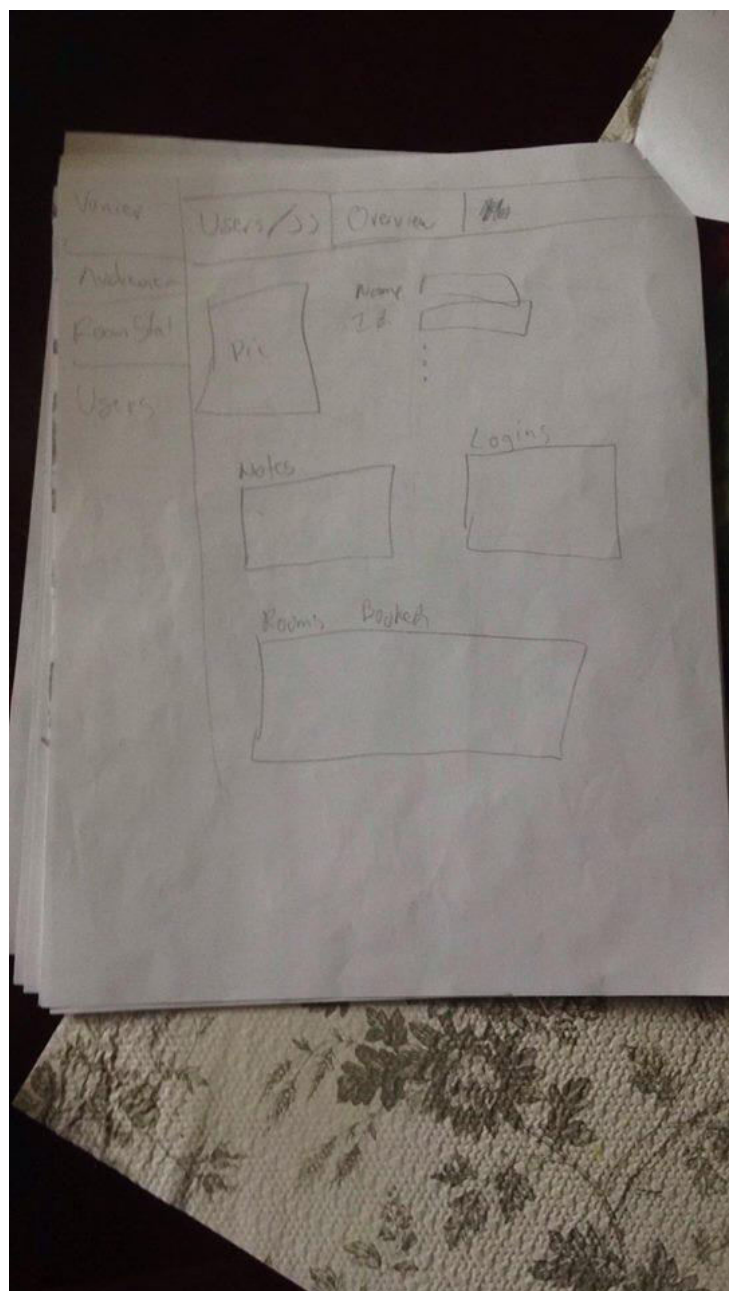
Mattew Zalass

Alex Dyferest











## Backend Info

First Name: \_\_\_\_\_

Last Name: \_\_\_\_\_

Student Id?: \_\_\_\_\_

Program: \_\_\_\_\_

Notes:

Student email: \_\_\_\_\_

Password: \_\_\_\_\_

Active user Yes ☐ No ☐

\* Potentially can change password for a student once verified. \*

Way to verify Student

link to verify email and  
send a confirmation if  
possible to access the website.

Way to setup admin / librarian acc:

we create them,  
then allow the librarians/admins to  
edit the info.

Home Page: 1st digital

- Audio room available not DS room

Home Page: 1st display

- Audio room available not DS room
- Minor changes to the wording.

Admin page:

- Good to have images, they already have them in databases
- Use histograms for analytics

Schedule: - Maybe put a calendar with the

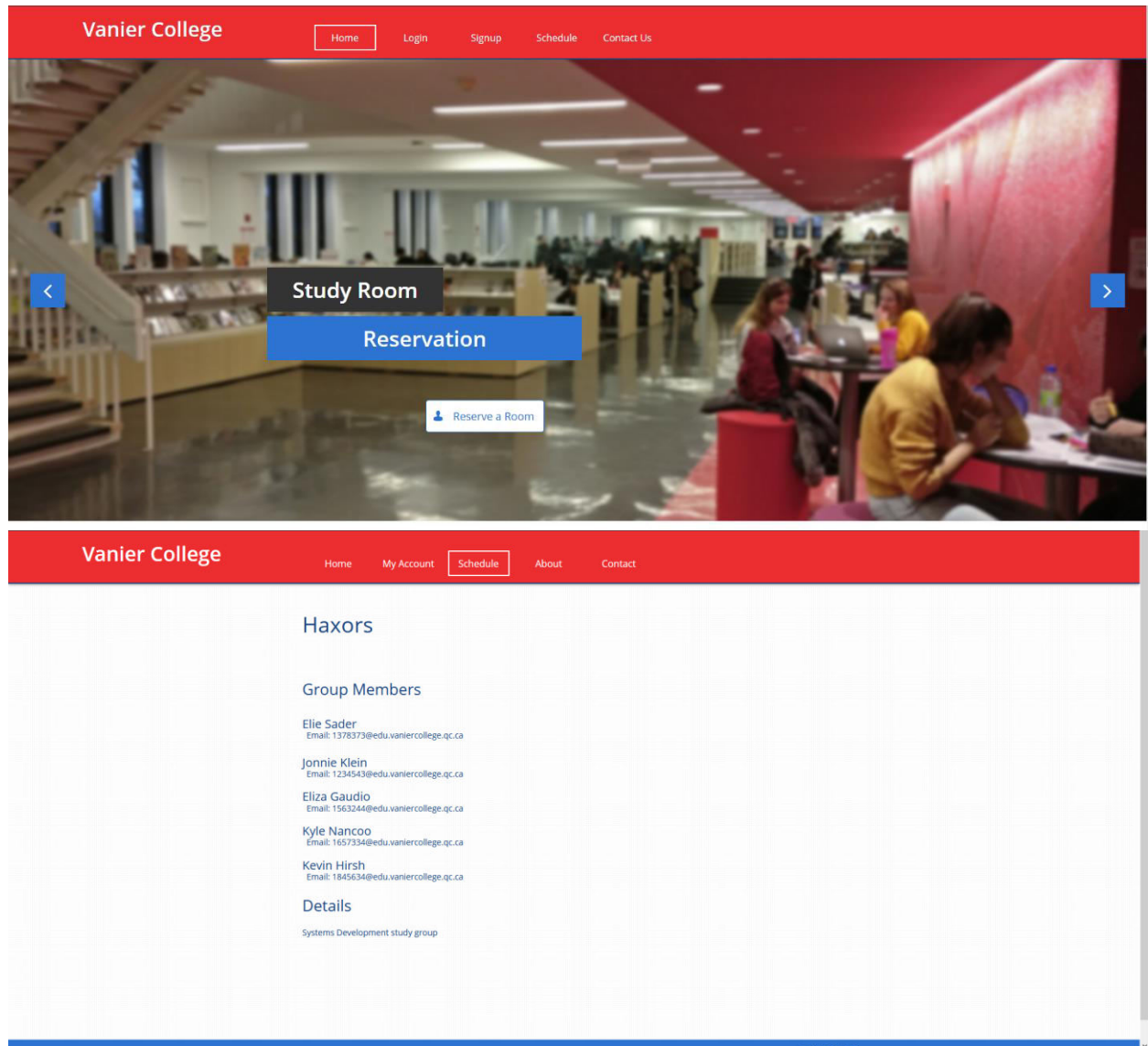
Admin page:

- Good to have images, they already have them in databases
- Use histograms for analytics

Schedule: - Maybe put a calendar with the schedule page.

- Every 15 min
- Altercate the user's looked ~~pages~~ rooms

## Initial computer prototype



Vanier College
Home
My Account
Schedule
About
Contact

## Group Overview

### Haxors

Team members:  
Jonnie Quezada, Elie Sader,  
Eliza Gaudio, Kyle Nancoo,  
Kevin Hirsh.

[Details](#)

[Create a New Group](#)

Vanier College
Home
My Account
Schedule
About
Contact

## Create Group

Group Name

Group Size 3

Group Members

 [Choose](#)

Group Description

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Vanier College
Home
Log In
Sign up
Contact
[Calendar](#)

## November 2018

Mon	Tue	Wed	Thu	Fri	Sat	Sun
			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		

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Vanier College

Home

Log In

Sign up

Contact

Calendar

First Name

Last Name

Student ID

Program

Notes

Email

Password

Active User

Yes

No

Cancel

Save Changes

Copyright © All Rights Reserved

f

+

g

Vanier College

Home

Login

Signup

Schedule

Contact Us

Name:

Studentid:

Email:

Phone:

John Doe

123456

johndoe@gmail.com

(514) 514-5144

Notes:

Logins:



Vanier College


[Home](#) [Login](#) [Signup](#) [Schedule](#) [Contact Us](#)

Name

Email

Phone

Studentid

☐ I'm not a robot 

Search

Studentid	Name	Email	Phone
123456	John Doe	johndoe@gmail.com	(514) 514-5144

Manage

Vanier College

[Home](#) [Login](#) [Signup](#) [Schedule](#) [Contact Us](#)

Update your information

Please fill out all the following information

First Name

Last Name

Program\*

Password\*

Confirm Password\*

Cancel

Update

It looks like you haven't started Firefox in a while. Do you want to clean it up for a fresh, like-new experience? And by the way, welcome back!

Refresh Firefox...

Vanier College
Home
Log In
Sign up
Contact
Calendar

### Sign Up

Welcome to the sign up page for Vanier College's study room bookings.

Please fill out all the following information (\* required)

First Name \*:

Last Name \*:

Student ID \*:

Email Address \*:  \*Vanier Email\*: 1234567@edu.vaniercollege.qc.ca

Program:

Password \*:

Confirm password \*:

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t

Vanier College
Home
My Account
Schedule
About
Contact

### October 1st Room Schedule

Time	Room 1	Room 2	Room 3	Room 4	Music Room
7:45	Booked 7:45-8:00				
8:00	Mathematics Group 8:00-9:00				
8:30					
9:00					
9:30					
10:00					
10:30		Unavailable 10:30-11:30			
11:00					
11:30					
12:00	Booked 12:00-13:00				
12:30					
13:00	Systems Uebare (I) 13:00-14:00				
13:30					
14:00					
14:30					
15:00					
15:30					
16:00					

[Manage Groups](#)  
[To Calendar](#)

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My Account
Schedule
About
Contact

### Program List

Social Science

Computer Science

Health Sciences

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f
p
t

Vanier College

[Home](#)
[Log In](#)
[Sign up](#)
[Contact](#)
[Calendar](#)

WELCOME BACK!

Log In

Email address:

Password:

Log In

Forgot Password?

Don't have an account? Click [HERE](#) to sign up.

Vanier College

[Home](#)
[Login](#)
[Signup](#)
[Schedule](#)
[Contact Us](#)

Edit page ?

Details

Status

Starting

Ending

Members

Jacob

Remove

Alexander

Remove

George

Remove


Tony

Remove


Gregory

Remove


Add Member




Looking for a place to study?  
 Reserve a room [online](#) today!




DJ room available!  
 Music listening and production room  
 for all your music needs!




Great for Group Study!  
 Book a room from 3-6 people!



Call Us Now!  
 Visit the Circulation Desk near the  
 Library entrance - F-300  
 514-744-7500



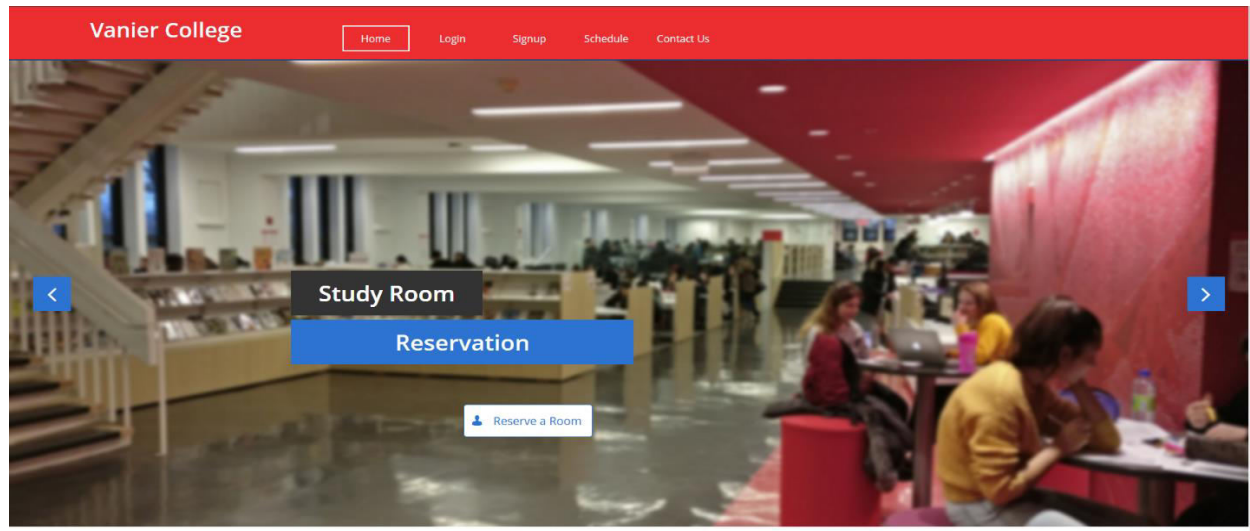
Study Room Hours  
 Monday - Friday 7:45 am - 4:00 pm



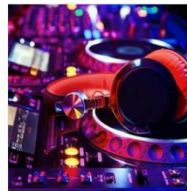
LOCATION  
 821 Avenue Sainte-Croix  
 Montreal, Quebec  
 H4L 3X9 Canada

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# Final computer prototype



Looking for a place to study?  
Reserve a room **online** today!



Audio room available!  
Music listening and production room  
for all your music needs!



Great for Group Study!  
Book a room from 3-6 people!



#### QUESTIONS?

Visit the Circulation Desk near the  
Library entrance - F-300



#### Study Room Hours

Monday - Friday 7:45 am - 4:00 pm



#### LOCATION

821 Avenue Sainte-Croix  
Montreal, Quebec  
H4L 3X9 Canada

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It looks like you haven't started Firefox in a while. Do you want to clean it up for a fresh, like-new experience? And by the way, welcome back!

Refresh Firefox...

Vanier College

[Home](#)
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[Signup](#)
[Schedule](#)
[Contact Us](#)

Name

Email

Phone

Studentid

Search

Studentid	Name	Email	Phone
123456	John Doe	john.doe@gmail.com	(514) 514-5144

Manage

<https://editor.websitesbuilder.com/>

Vanier College
Home
Login
Signup
Schedule
Contact Us



Name: Steven Wang  
StudentId: 1243873  
Email: 1243873@.edu.vaniercollege.qc.ca  
Phone: (514) 514-5144

Notes:
Logins:

Vanier College
Home
My Account
Schedule
About
Contact

October 1st  
Room Schedule

November 2018

Time	Room 1	Room 2	Room 3	Room 4	Music Room
7:45	Student				
8:00	Student				
8:15	Student				
8:30	Student				
8:45	Student				
9:00	Student				
9:15	Student				
9:30	Student				
9:45	Student				
10:00	Student				
10:15	Student				
10:30	Student				
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14:15	Student				
14:30	Student				
14:45	Student				
15:00	Student				
15:15	Student				
15:30	Student				
15:45	Student				
16:00	Student				

Manage Groups  
To Calendar

## Changes between prototypes

Our client was fairly pleased with our presentation of the prototype, and did not have many comments for us to change. He enjoyed our colour theme, as it matched with the Vanier colours, and our design is very clean and simple, much to Haritos' liking.

In our initial computer design, we had the calendar to select a booking in a different page, and the schedule on a different page. Essentially, when you would click on a specific date to book a room, it would have redirected you to the availability page. Haritos thought it would be much more practical to have

it all on the same page, that way when the student/teacher selects a date to book a room, an availability schedule appears.

On the homepage, we initially had a phone number for the students to call librarians, or Vanier College, for any questions regarding booking a room. However, Haritos mentioned to us that realistically, students won't really call the school for questions. He suggested we change it, and instead tell students to go to F-300 in the library for their questions.

Our computer design was also initially pretty messy, so Haritos asked us to have everything organized, because he was having troubles finding the right pieces of information. In order to fix that, we merged all our design files into one website on the builder we used, instead of having several different pages.

Another thing we changed was on the login page. Initially, the login page didn't have a way to be redirected to the sign up page, in case the person didn't have an account. For example, let's say a student wants to book a room, but doesn't have an account. When they click to reserve a room, they would have been redirected to a page that says "login". If the student doesn't have an account, they have to create one. Therefore, Haritos suggested we add a comment that says "don't have an account? Sign up here". We added that button to the login page, as he requested.

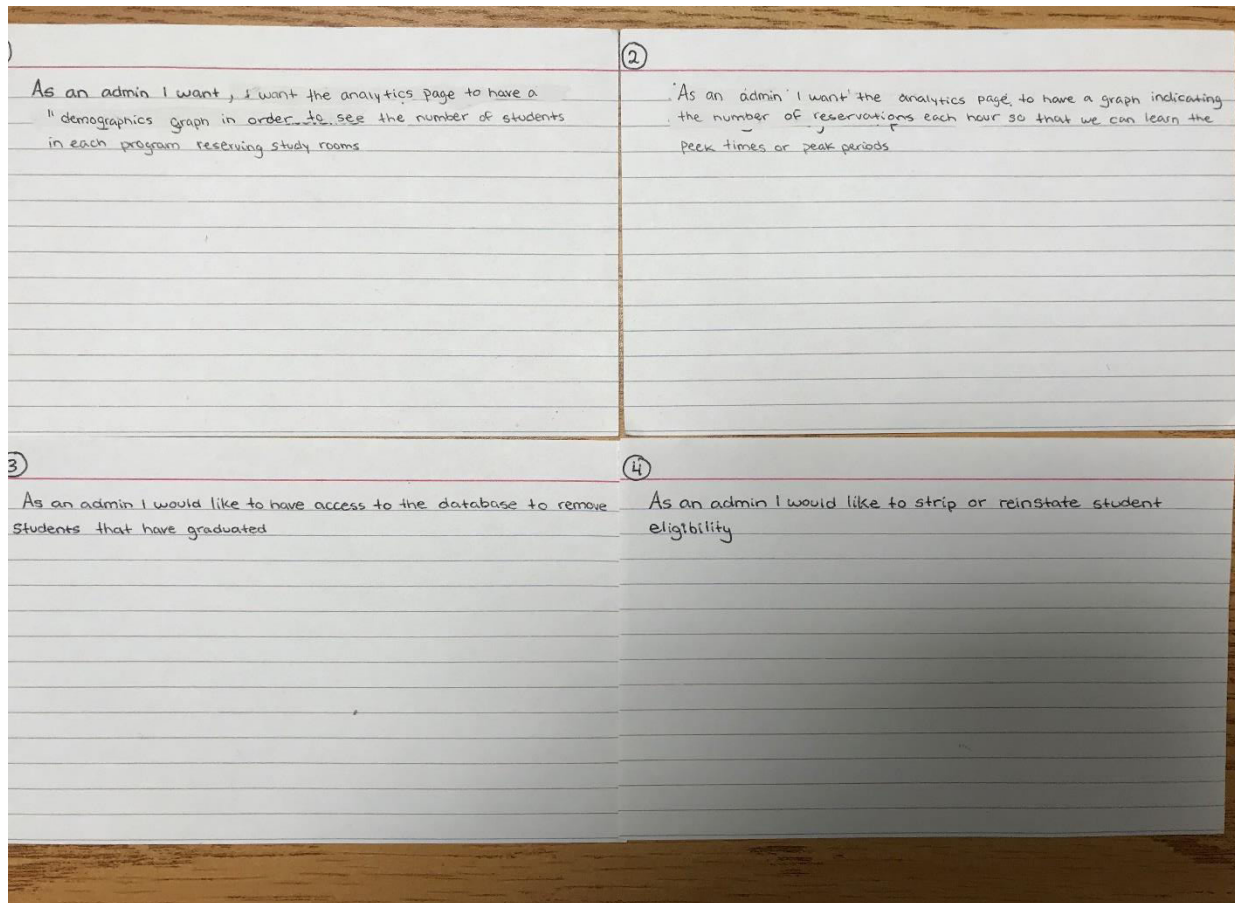
## **Appendix 1**

### **\*\* hasn't changed from previous deliverable \*\***

1. As an admin, I want the analytics page to have a "demographics" graph in order to see the number of students in each program reserving study rooms
2. As an admin I want the analytics page to have a graph indicating the number of reservations each hour so that we can learn the peak times or peak periods
3. As an admin I would like to have access to the database to remove students that have graduated
4. As an admin I would like to strip or reinstate student eligibility
5. As a librarian I can add/remove students from a reservation
6. As a librarian I can manage a study rooms availability
7. As a librarian I can change the hours in which rooms can be booked
8. As a librarian I would like to be notified when a student has passed their time limit

9. As a librarian I would like to be notified 15 minutes after they are not present for their reservation
10. As a librarian I would like to see the schedule times
11. As a librarian I would like to know if a student is not eligible to book a room
12. As a librarian I would like to have a registration system in order to see who is reserving a room
13. As a librarian I would like to have a section to add notes on a student's profile to mark their behaviour
14. As a librarian I would like to have a time frame for a student to confirm a reservation in order to release unconfirmed reservations.
15. As a librarian I would like to see the type of room reserved
16. As a student I would like to see the availability of the rooms
17. As a student I would like to have a page where I can book a room
18. As a student I would like to be able to book a room as a group
19. As a student I can cancel a reservation
20. As a student I would like to be reminded by email about my reservation
21. As a student I would like to have access to the reservation system through omnivox
22. As a student I would like to add/remove group members to an existing reservation
23. As a student I would like a registration page to register an account to access the system
24. As a student I would like a profile page where I can update my student information
25. As a student I would like to see other group member emails
26. As a teacher I would like to reserve/cancel a room for my class to hold a lecture
27. As a teacher I would like to register a teacher account
28. As a teacher I would like to update my teacher information
29. As a teacher I would like to have access to the reservation system through omnivox
30. As a teacher I would like to see the availability of the rooms to properly schedule my lecture times.





### 1. Test 1

Given that the user is an admin, when the user tries to access the analytics page,  
The user can gain insight on his users.

### Test 2

Given that the user is not an admin, when the user tries to access the analytics page, then the user will not have access to the page and an error message will be displayed.

### 2. Test 1

Given that the user is an admin, when the user to access the analytics page,  
The user can gain peak times on his users.

### Test2

Given that the user is not an admin, when the user tries to access the analytics page, then the user will not have access to the page and an error message will be displayed.

3. Test 1

Given that the user is an admin, when the user tries to access the database, the user succeeds in removing students that have graduated.

Test 2

Given that the user is not an admin, when the user tries to access the database, then the user will not have access and an error message will be displayed.

4. Test 1

Given that the user is an admin, when the user tries to access the database, the user can strip or reinstate student eligibility.

Test 2

Given that the user is not an admin, when the user tries to access the database, then the user will not have access and an error message will be displayed.

5. Test 1

Given that the user is a librarian, when the user tries to remove/add a student to a reservation, the student will be added/removed from the reservation.

Test 2

Given that the user is a librarian, when the user tries to add a student to a reservation when it's full, the student will not be able to be added to the reservation.

6. Test 1

Given that the user is a librarian, when the user tries to open a closed room, the room will be open in the schedule.

Test 2

Given that the user is a librarian, when the user tries to close an open room, the room will be closed in the schedule.

7. Test 1

Given that the user is a librarian, when the user tries modify a schedule time, the schedule is updated.

Test 2

Given that the user is a librarian, when I try to exceed the schedule time for the day, the schedule will not be updated and it will give an error message.

8. Test 1

Given that the user is a librarian, when a student passes their time limit, the librarian will be notified that the student has passed their time.

Test 2

Given that the user is a librarian, when a student does not pass their limit, the librarian will not receive a notification that the student has passed their time.

9. Test 1

Given that the user is a librarian, when a student is not present within 15 minutes of their reservation, the librarian will receive a notification.

Test 2

Given that the user is a librarian, when a student comes on time, the librarian will not receive a notification of the student's tardiness.

10. Test 1

Given that the user is a librarian, when the user wants to check the schedule times, they will see the list of all the reservations of the day/week.

Test 2

Given that the user is a librarian, when the user access's the schedule on the weekend, the user will receive an error message saying that the library is closed during the weekend.

11. Test 1

Given that the user is a librarian, when the user checks the student's profile, the user can see if the student is not eligible and they will deny access.

Test 2

Given that the user is a librarian, when the user checks the student's profile, the user can see if the student is eligible and they will grant access.

12. Test 1

Given that the user is a librarian, when the user wants to see if a student has registered, they can see if they have done so.

Test 2

Given that the user is a student, they will be denied access to viewing the other student's information.

13. Test 1

Given that the user is a librarian, the user will be able to add notes on the student's profile.

Test 2

Given that the user is a student, the user will not be able to add notes on another student's profile.

14. Test 1

Given that the user is a librarian, the user would be able to confirm or cancel a reservation within a given time period.

Test 2

Given that the user is a librarian, when the student does not confirm or cancel the reservation within the time frame, the student's reservation will be cancelled and the librarian will be notified about the cancellation

15. Test 1

Given that the user is a librarian, the user would be able to see the details of a reserved room.

Test 2

Given that the user is a Student, the user would be able to book a room based on type.

16. Test 1

Given that the user is a Student, the user would be able to check the schedule.

Test 2

Given that the user is a Student, the user would not be able to check the schedule for weekends and an error message will be displayed.

17. Test 1

Given that the user is a Student, the user would be able to book a room in advance.

Test 2

Given that the user is a Student, the user would not be able to book another room until the reservation has passed.

18. Test 1

Given that the user is a Student, the user would be able to create a group.

Test 2

Given that the user is a Student, the user's members will not be able to book another room until the reservation has passed.

19. Test 1

Given that the user is a Student, the user would be able to release the reservation.

Test 2

Given that the user is a Student, when the user does not confirm or cancel a reservation, his reservation will be cancelled from the schedule.

20. Test 1

Given that the user is a Student and his email is confirmed, the user would be reminded by email about the booking.

Test 2

Given that the user is a Student and his email is not confirmed, the user would not receive any email reminding them about the booking.

21. Test 1

Given that the user is a Student enrolled at vanier, the user would be redirected to their booking through omnivox.

Test 2

Given that the user is not a Student enrolled at vanier, the user would not have access to the reservation system.

22. Test 1

Given that the user is the group leader, the user would be able to add or remove members from an existing reservation.

Test 2

Given that the user is not the group leader, the user would not be able to add or remove members from an existing reservation.

23. Test 1

Given that the user is a Student, the user would be able to create an account in order to access reservations.

Test 2

Given that the user is a Student and has an existing account, the user would not be able to create a second account to access reservations.

24. Test 1

Given that the user is a Student, the user would be able to update their own profile.

Test 2

Given that the user is a Student, the user would not be able to update another student's profile.

25. Test 1

Given that the user is a Student and a group member, the user would be able to see the emails of the other members.

Test 2

Given that the user is a Student and is not a group member, the user would not be able to see the emails of other members in other groups.

26. Test 1

Given that the user is a Teacher, the user would be able to create a group called "class" where they could pick and choose from a list of students from their class to hold a lecture.

Test 2

Given that the user is not a Teacher, the user would not be able to create a group called "class".

27. Test 1

Given that the user is a Teacher, the user would be able to create a teacher account with different features.

Test 2

Given that the user is a Teacher and has an existing account, the user would not be able to create another account to access reservations.

28. Test 1

Given that the user is a Teacher, the user would be able to update their profile information.

Test 2

Given that the user is a Teacher, the user would not be able to update another teacher's profile information.

29. Test 1

Given that the user is a Teacher employed at vanier, the user would be redirected to their booking through omnivox.

#### Test 2

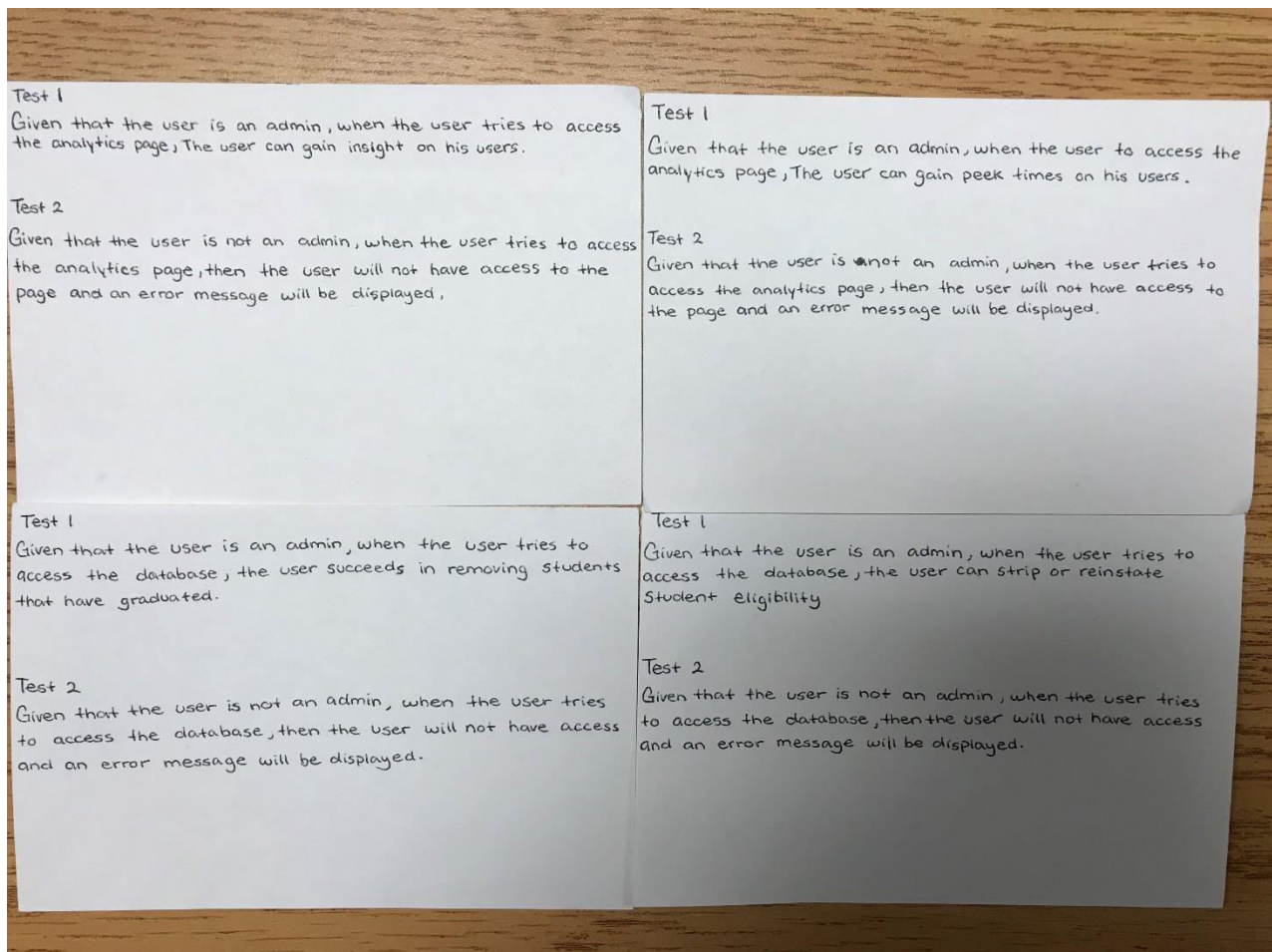
Given that the user is a Teacher not employed at vanier, the user would not have access to the reservation system.

#### 30. Test 1

Given that the user is a Teacher, the user would be able to check the schedule.

#### Test 2

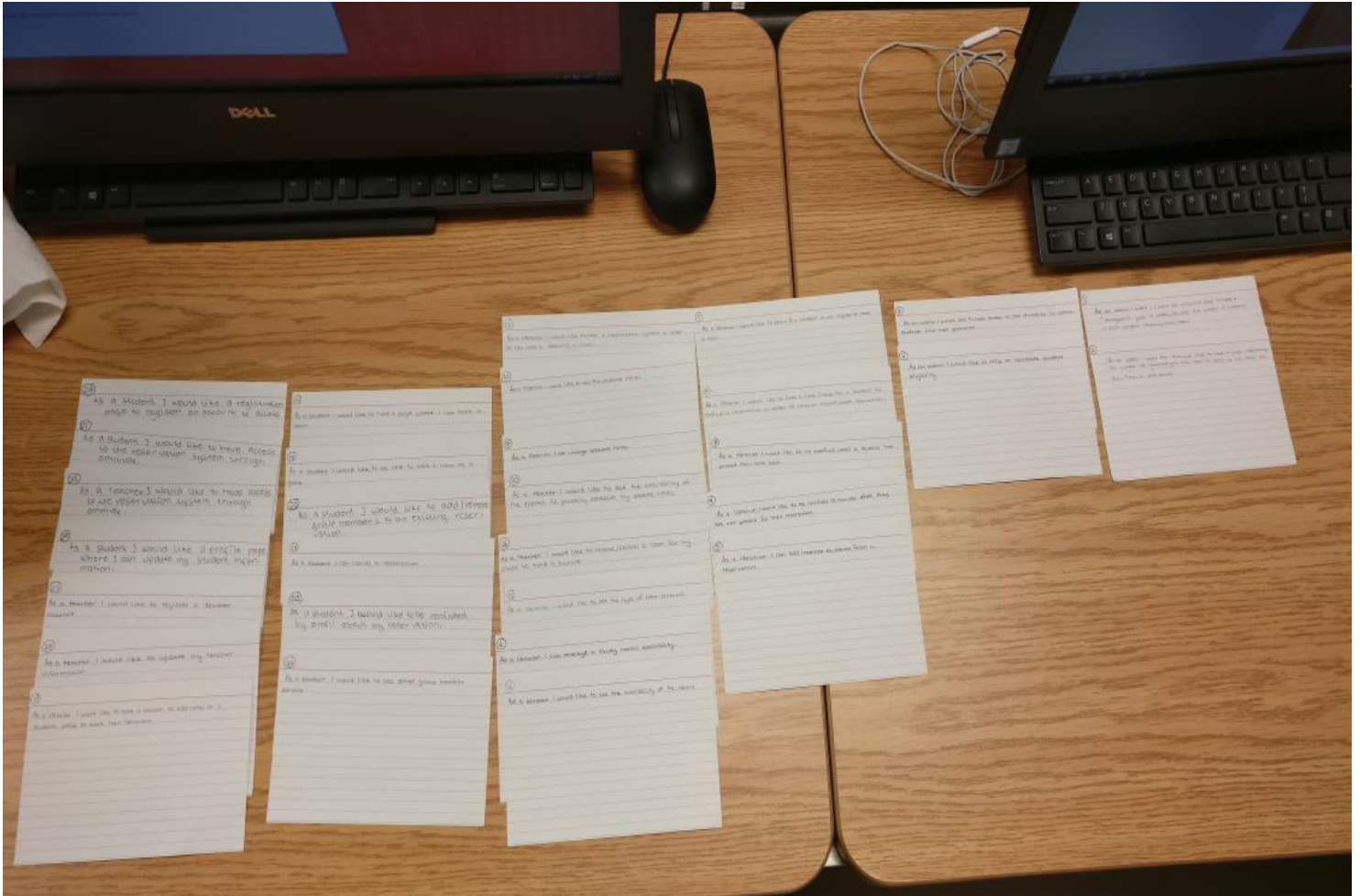
Given that the user is a Teacher, the user would not be able to check the schedule for weekends and an error message will be displayed.





## Appendix 2

**\*\* No changes from last deliverable \*\***



(23)

As a student I would like a registration page to register an account to access

(21)

As a student I would like to have access to the reservation system through omnivox.

(29)

As a Teacher I would like to have access to the reservation system through omnivox.

(24)

As a student I would like a profile page where I can update my student information.

(27)

As a teacher I would like to register a teacher account

(28)

As a teacher I would like to update my teacher information

(13)

As a librarian I would like to have a section to add notes on a student's profile to mark their behaviour

## **Works Cited**

- No references were used throughout this deliverable.