

# **Room Booking System**

## **Group Uno**

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## Project Scope

Our product/project will be a Room Booking System where we can register students and faculty who are interested in staying at dormitories in the college. With this system, it would be easier to monitor and maintain the room bookings whether in-house or incoming.

There are similar but complex systems in the market that hotels use like Opera, Lightspeed and Fidelio. There are also simple systems like the ones the colleges develop themselves or there are companies that provide the booking system like Checkfront, Wix, Preno and many more. However, ours will be simpler and more direct to the point.

The major features of our software will be the registration, room search, waitlist view and payment system. With these features, it will be easier for the admin and student/faculty to access their booking in the system. In this project will be using React, NodeJS and Webservice.

React is an open-source, front-end, JavaScript library for building user interfaces. Basically, it is the layout of the system in the browser. NodeJS is an open-source, cross-platform, back-end, JavaScript runtime environment that executes JS code outside a web browser. If React is front-end, this will be the back end of the code, this will be where all the execution will happen. Web service is a server running on a computer device listening for requests at a particular port over a network.

The registration will be where the student/faculty will register for the booking system so that they can access their accounts. They would need to fill up the form with their name, email address and password then submit all the information to direct the user to the login page.

Room search is a great feature in the project because this will be where the admin will look up available rooms and rooms types in the system. The admin user will be able to filter with rooms available, rooms booked and rooms for repair. Names of the students/faculty can also be viewed in this feature.

Another major feature is the waitlist view, in this feature the admin user can view the list of people in the waitlist. The admin user has the power to either add or remove people from the list if a student/faculty needs to be added or removed. In the list, admin users can view names, contact information and addresses.

Lastly, the payment system, in this feature admin users can view the profile of the student/faculty that stayed in the dormitory. The fees that they will pay and the deposit they gave upon check-in. The admin user will then be able to print out the folio for the student/faculty so that they would have a copy of their folio.

In conclusion to our project, the room booking system will be able to make an admin's life a lot easier because everything will be in the system. It will be easily looked up with a single click.

## **Group Dynamics**

**Team leader:** Rayyan Haroon

### **Roles of each member:**

#### **Nicole**

- Secretary
- Web developer
- Documentation

#### **Karina**

- Assistant Team Leader
- Web developer

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#### **Rayyan**

- Team Leader
- Web developer

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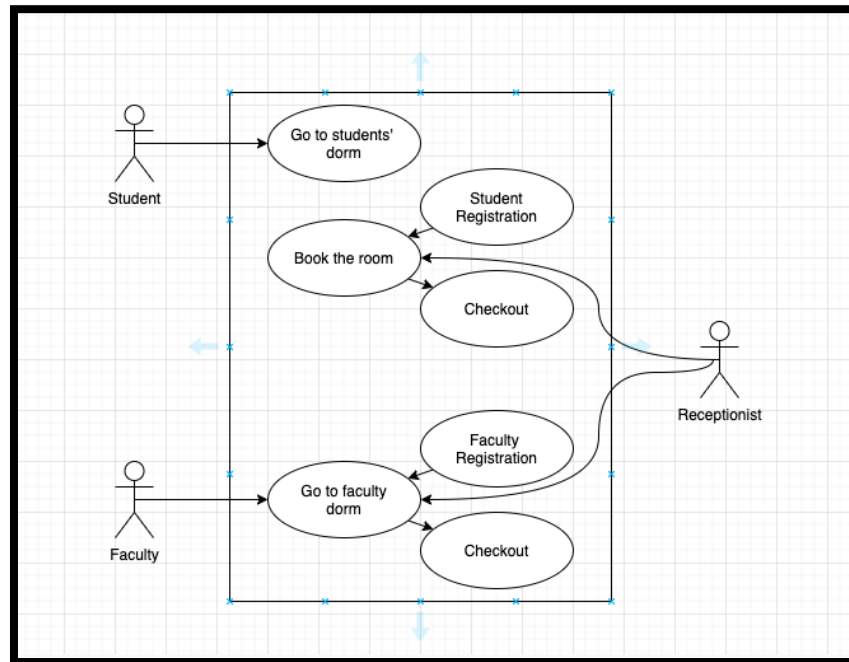
### **Disagreements in the roles:**

Who the TL will be?

### **How were they dealt with?**

Group members talked it over.

## Use Cases

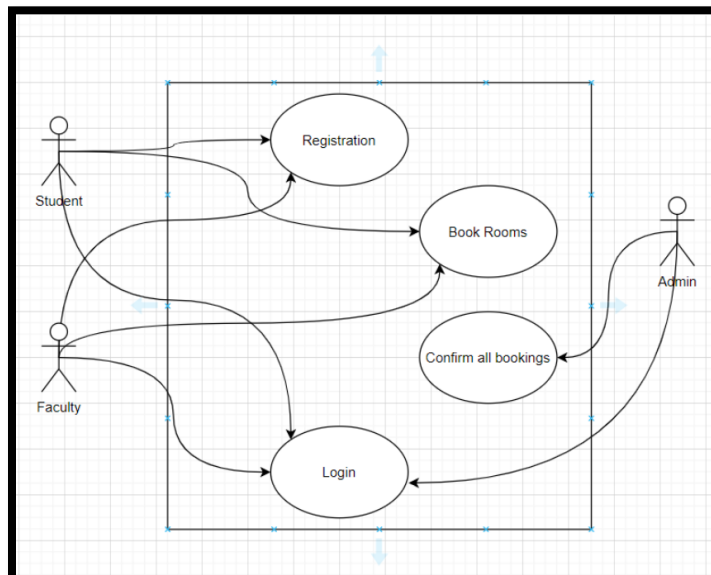


The diagram represents a simple registration system. Where the student/faculty will go to the respective dormitory and register at the reception if there are available rooms for them.

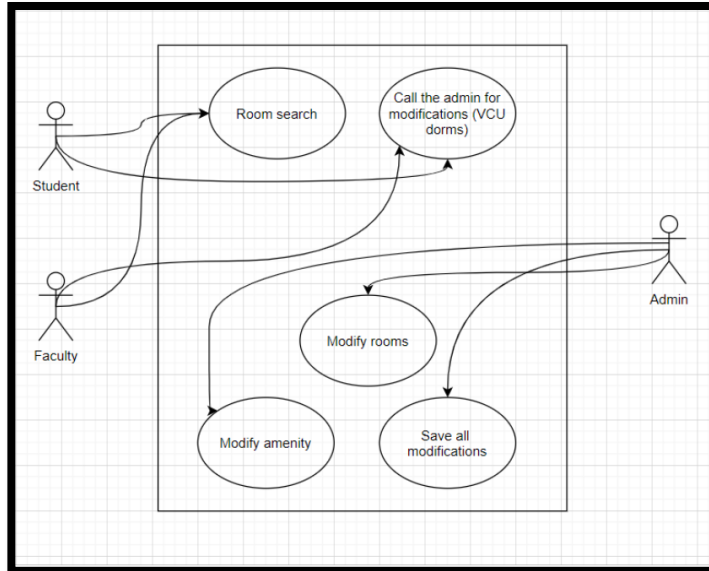
The receptionist will then check the room availability and if there's an available room they will go through the process of check-in, if they have specific preference about the room or included amenities they would like to avail and how many days they will be staying.

When it is time to check-out the student/faculty will have to return the key and pay at the reception before leaving.

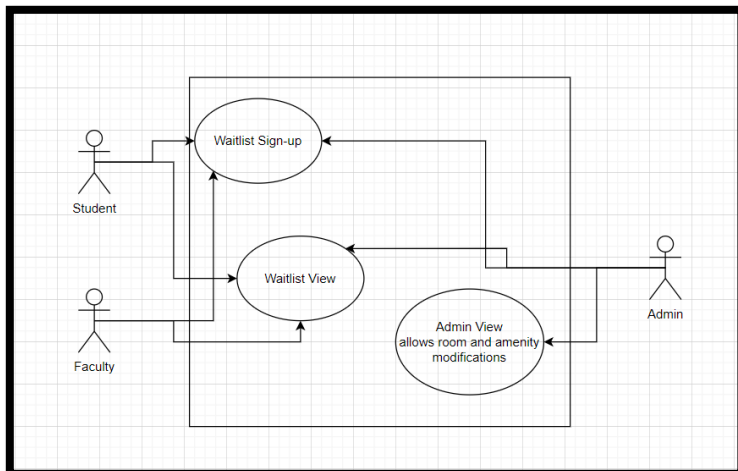
### Iteration #1 Use Case



## Iteration #2 Use Case



## Iteration #3 Use Case



## Software Toolset (features)

We will be using JavaScript for the programming language. Our data sources will be looking into websites of colleges and universities that provide housing. In addition to that, we will also make use of the class lectures and demo codes to guide us in this project. For version control we will be using Github to monitor and store our code for easy access to us. Lastly, React JS for bug-tracking software. We will also use Web Service to connect to the server.

## Project Schedule

Iteration#	Features	Team Member	Points
1	Registration	Nicole	4
1	Log in	Karina	3
1	Book Rooms	Rayyan	3
2	Room Search	Rayyan	4
2	Modify Rooms	Karina	3
2	Modify Amenity	Nicole	3
3	Admin View	Rayyan	3
3	Waitlist Search/View	Nicole	4
3	Sign up/Reservation for waitlist	Karina	3
4	Edit, Delete from the list	Nicole	3
4	Payment Page	Karina	4
4	Information Page	Rayyan	3
5	TBA	Karina	5
5	Generate Receipts	Rayyan	3
5	Log out	Nicole	2

## Meeting Minutes

### Sept. 29, 2020

- Went over the project features – we have about 10 features now, we will go over it again on Friday, Oct 2 to finalize it.
- The project plan is almost complete, just need to finalize on Friday, Oct 2.
- The red text in the file needs to be discussed in the next meeting.
- We finished our project schedule and use case section in the project plan.
- Need to finalize the points for the iteration.
- We already found a few data sources we can use:
  - [https://mrbs.sourceforge.io/mrbs/index.php?view=day&view\\_all=1&page\\_date=2020-09-27&area=2490&room=6136](https://mrbs.sourceforge.io/mrbs/index.php?view=day&view_all=1&page_date=2020-09-27&area=2490&room=6136)
  - <https://vancouver.housing.ubc.ca/other-housing/more-campus-housing/>
- **Next meeting will be on Friday, Oct 2, 2020.**

### Oct. 2, 2020

- Finalized the project plan. Points systems finalized.

- Decided Rayyan to be team leader.
- Distributed tasks to each member.
- Next meeting agenda: researching dorm buildings/amenities and what they each offer

#### **Oct. 9, 2020**

- **What have we done since that last meeting?** We have added 2 more iterations (total of 15 features). We all contributed to the addition to the iterations. Also, added the suggestions by our instructor.
- **What to do before the next meeting?** We are to plan for the wireframes before the next meeting.
- **What am I / are we stuck on that I / we need help it?** We are not stuck on anything yet.
- **Next meeting agenda:** to make the main screen wireframe/s.
- **Next meeting:** Oct. 14, 2020 at 430pm

#### **Oct. 14, 2020**

- **What have we done since that last meeting?** Finished the main screen wireframe. Discussed brand names and colors for the screen.
- **What to do before the next meeting?** Start on Iteration #1
- **What am I / are we stuck on that I / we need help it?** We are not stuck on anything yet.
- **Next meeting agenda:** Start on Iteration# 1
- **Next meeting:** Oct. 23, 2020 at 1pm

#### **Oct. 23, 2020**

- **What have we done since that last meeting?** Did minor adjustments on the Iterations.
- **What to do before the next meeting?** Finalize the arrangements of Iteration #1.
- **What am I / are we stuck on that I / we need help it?** \*\*\*On how we going to arrange the iterations, arrangement of the pages, and how to start on the project.
- **Next meeting agenda:** Start on Iteration #1
- **Next meeting:** Oct. 25 at 1pm

#### **Oct. 25, 2020**

- **What have we done since that last meeting?** Started on Iteration #1, did minor adjustments on the Iterations.
- **What to do before the next meeting?** Continue with Iteration #1
- **What am I / are we stuck on that I / we need help it?** \*\*\*Gitflow
- **Next meeting agenda:** Continue with Iteration #1 and figure out Gitflow
- **Next meeting:** Oct. 27 at 1pm and Oct. 30 at 1pm

#### **Oct. 27, 2020**

- **What have we done since that last meeting?** Figure out Gitflow
- **What to do before the next meeting?** We need to figure out Gitflow
- **What am I / are we stuck on that I / we need help it?** \*\*\*Gitflow

- **Next meeting agenda:** Finalize Gitflow
- **Next meeting:** Oct. 30 at 110pm

#### **Oct. 30, 2020**

- **What have we done since that last meeting?** Finally figured out Gitflow, had to start from scratch in Github thought and make a new repo.
- **What to do before the next meeting?** Merge iteration #1 code and start on Iteration #2
- **What am I / are we stuck on that I / we need help it?** So far, so good
- **Next meeting agenda:** Iteration #2
- **Next meeting:** Nov. 3, 2020 at 430pm

#### **Nov. 9, 2020**

- **What have we done since that last meeting?** We made a new repo for web service, Iteration#2 Modify Rooms is done, WS repo has routes and controllers.
- **What to do before the next meeting?** Iteration#2 still in progress (due on Fri, Nov 13), waiting on Book rooms and Room search.
- **What am I / are we stuck on that I / we need help it?**
- **Next meeting agenda:** Iteration #2 due Nov 13, Friday
- **Next meeting:** Nov. 10, 2020 at 1pm

#### **Nov. 10, 2020**

- **What have we done since that last meeting?** Wiki and Project board are starting to fill up. Wiki – complete with images of wireframes and use cases.
- **What to do before the next meeting?** Iteration#2 still in progress (due on Fri, Nov 13), waiting on Book rooms and Room search.
- **What am I / are we stuck on that I / we need help it?** GET and list data on React-App
- **Next meeting agenda:** Iteration #2 due Nov 13, Friday
- **Next meeting:** Nov. 13, 2020, time: TBA

#### **Nov. 25, 2020**

- **What have we done since that last meeting?** Continuation of Iteration #3, creating databases for specific entities.
- **What to do before the next meeting?** Update project board and issues.
- **What am I / are we stuck on that I / we need help it?** Access to the database.
- **Next meeting agenda:** Meeting with Rahim Nov 26, iteration #3 demo, access or upload all in cloud9/AWS.
- **DUE DATES:** Dec. 4 – Iteration #4, Dec. 11 – Iteration #5
- **Next meeting:** TBA



#### **Dec. 01, 2020**

- **What have we done since that last meeting?** Continued on developments with iteration #3, we changed a couple of features because it wasn't specific. We had to break it down.
- **What to do before the next meeting?** Update project board and issues. We try to deploy the app into cloud9.
- **What am I / are we stuck on that I / we need help it?** Access to view the database, full stack deployment, we can make it work individually but we can't stack it accordingly.
- **Next meeting agenda:** Find out more on deployment and how to connect to them.
- **DUE DATES:** Dec. 11 – Iteration #5

#### **Dec. 02, 2020**

- **What have we done since that last meeting?** We Continued on developments with iteration #3, still no improvements from previews meetings. Nicole – cannot view the database on the browser (route issues), Karina – found out how to connect multiple databases into web service. Rayyan – changed feature to Information Page.
- **What to do before the next meeting?** Update project board and issues. We try to deploy the app into cloud9. Failed in deployment into Cloud9. We could not finish the full stack deployment.
- **What am I / are we stuck on that I / we need help it?** Access to view the database, full stack deployment, we can make it work individually but we can't stack it accordingly.
- **Next meeting agenda:** Find out more on deployment and how to connect to them.
- **DUE DATES:** Dec. 11 – Iteration #5

#### **Dec. 03, 2020**

- **What have we done since that last meeting?** We Continued on developments with iteration #3, still no improvements from previews meetings. Nicole – cannot view the database on the browser (route issues), Karina – found out how to connect multiple databases into web service. Rayyan – changed feature to Information Page.
- **What to do before the next meeting?** Update project board and issues. We couldn't finish the full stack deployment.
- **What am I / are we stuck on that I / we need help it?** Access to view the database, full stack deployment, we can make it work individually but we can't stack it accordingly. Same issues since Dec 1 meeting.
- **Next meeting agenda:** Find out more on deployment and how to connect to them.
- **DUE DATES:** Dec. 11 – Iteration #5

## References

[https://en.wikipedia.org/wiki/Web\\_service](https://en.wikipedia.org/wiki/Web_service)

<https://en.wikipedia.org/wiki/Node.js>

[https://en.wikipedia.org/wiki/React\\_\(web\\_framework\)](https://en.wikipedia.org/wiki/React_(web_framework))