

## Scope

- The Team
- Business Pain Point
- Idea & Project Description
- System Features
- Wireframe
- Technology & Deployment Environment
- Timeline



### The Team



**Chin Siong** 

Backend Developer

Frontend Developer



Hai Qi

Frontend Developer

Backend Developer



Afiqah

Graphic Designer

Frontend Developer



**Nicholas** 

Frontend Developer

Backend Developer



**Vincent Yeo** 

Backend Developer

Frontend Developer

### **Business Pains**



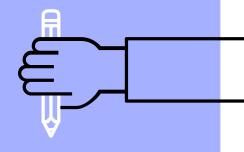
#### **Underutilized spaces**

Spaces in hots' facilities that are unused whereby it does not optimized the office space nor its costs



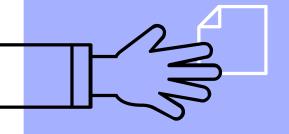
#### **Financial Lock-in**

Traditional lease system is a fixed costs that does not meet the flexible workspace need of individuals or businesses



## The Idea

**Project Description** 







# The "Airbnb" for underutilized spaces

An online marketplace web-based platform system to match <u>facilities</u> <u>providers</u> with <u>individuals and/or company</u> who need space <u>on-demand</u>, <u>adhoc-basis</u>



## Features of the System

On-demand booking

Create and manage your facilities reservation conveniently real-time

Location-based Posting

Visualize host location on Google Map

Smart Lock Facility Add-On

A QR code based smart door lock compatible with the platform

Community Feedback and Review

Guests can post give their feedback and rating for each facilities visited 2

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## Benefits of the System



#### Flexibility

Deliver <u>cost-effective</u> <u>space solutions</u> whenever and wherever your <u>business demands</u> <u>more flexibility</u>.



#### Choice & Simplicity

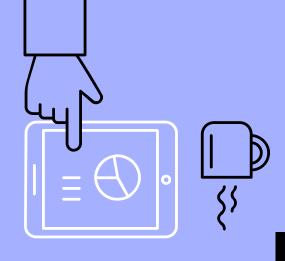
Access diverse and trusted network of space solutions at the click of a button.

Simplify the search process, transaction and management of spaces.

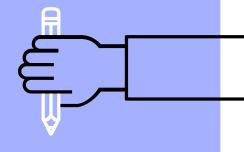


#### Sustainability

Reduce the waste of half empty spaces and time spent commuting.







## Wireframes



#### Main Page:

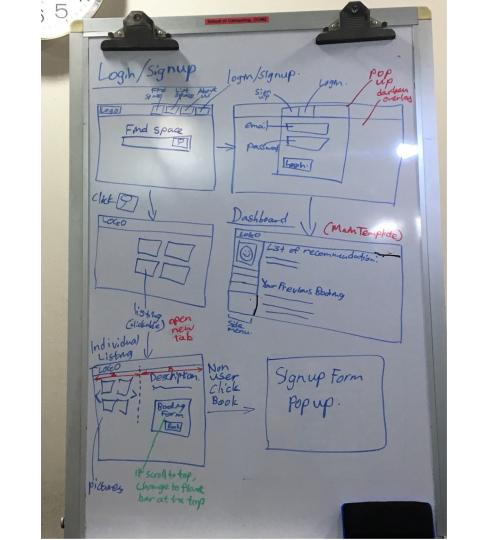
- Non-registered users can search for listing on main website
- They will be prompted to register an account with us when booking a room

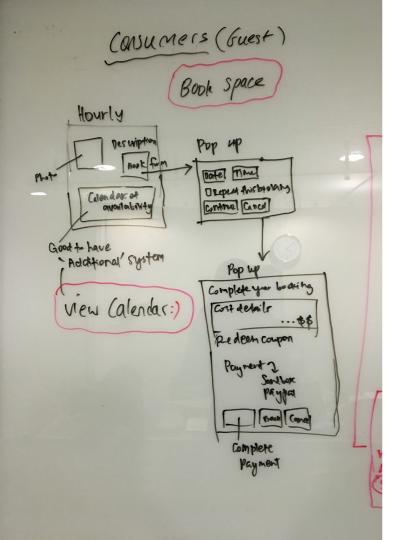
#### **Basic Access System:**

 Login and/or sign up modal box using email and password

#### **Individual Listing Page**

 Each Listing page have its pictures and location presented on the google map





#### **Timetable**

 In listing, there is a timetable showing availability of venue

#### **Booking Process**

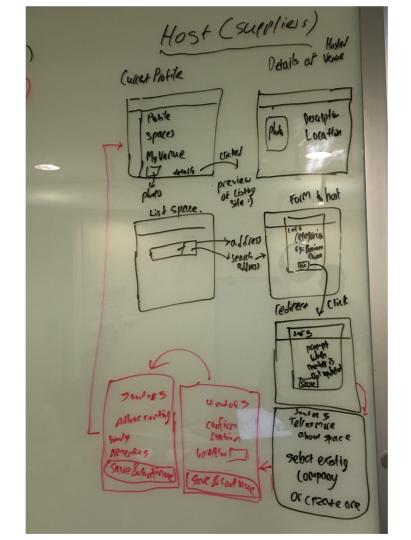
- Modal box form to handle the booking
- Leading to payment process of the deposit, handled by 3rd party like Paypal.

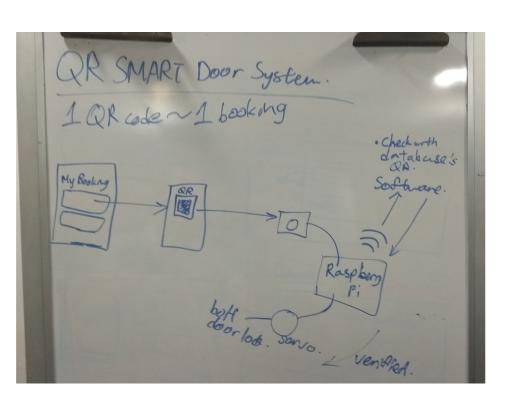
#### **Posting of Listings:**

- From hosts' dashboard
- Create a new listing via the form wizard where they enter the venue location.

#### **Managing Listings:**

- Host can edit and manage their timetable of listing
- They can open up or block out the timeslots for their spaces



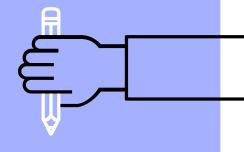


#### **QR Code System**

- Each booking has a unique QR code
- Guest scan the QR code to the reader to sign in
- The QR code is verified with the software and unlocks the door.
- Guest scan the QR code again to to sign out and lock the door when they leave

#### Hardware-software communication

- Raspberry pi camera will capture QR code
- Then communicates wirelessly to server for QR code verification
- Then programs servo to lock/unlock door



## Technology

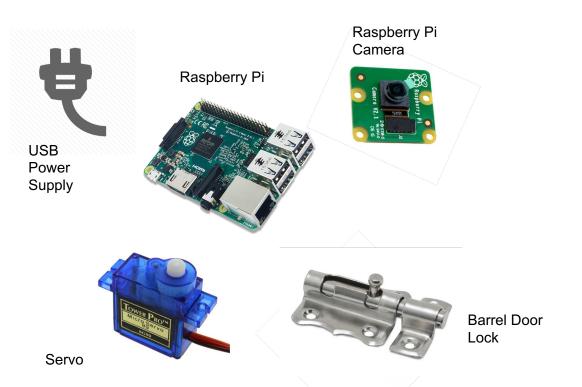


## Technology

- Software Web-based application with mobile friendly interface
- Hardware A Smart Door Lock with QR code sign-in and sign-out
- Deployment Environment:
  - Facilities whereby there is Internet connection



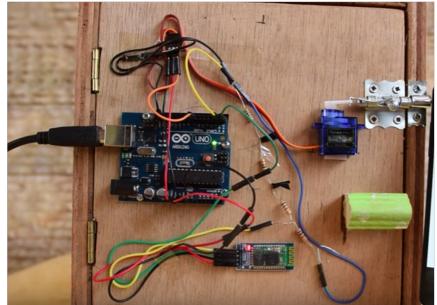
### Hardware - SMART Door Lock

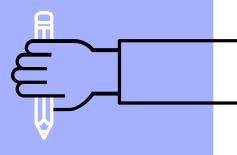




### Hardware - SMART Door Lock

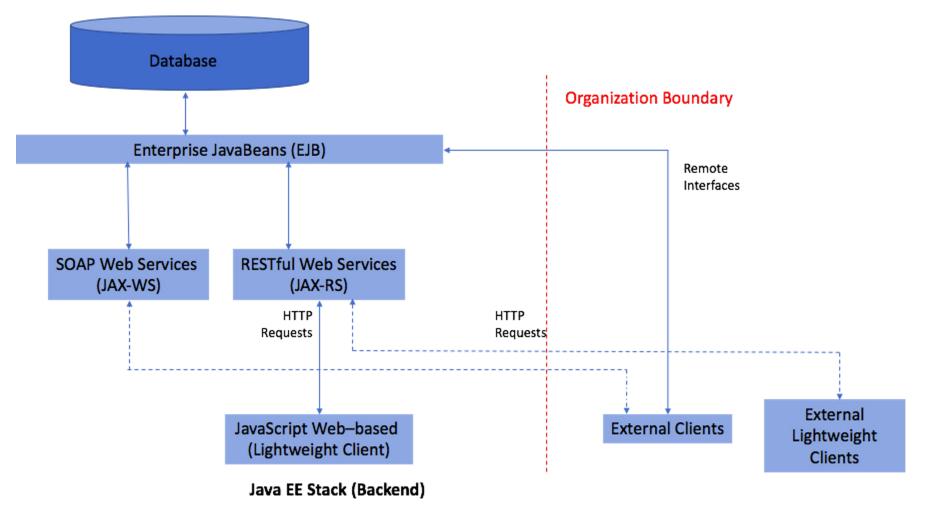






## Tech Environment





### Timeline

Week 3 Week 4 Week 5 Week 6 Term Break Week 7 **Project Project Essential Essential Secondary Planning** Iteration Iteration and **Testing** Iteration UI: UI: UI: - UI Design Flow for UI Website Design Bootstrap template sign up as member, upload listings set up, HTML, CSS Frontend Frontend: - Learning React and React Native Backend: Framework (Basic) - Project Architecture - Functionality Testing with Backend Map - Entity Mapping Backend: - Write functional tests for session beans - Write integration testing procedures

#### Secondary **Essential** Iteration

- UI Design flow for purchasing space, information to display

#### Frontend

- Implementing React and React Native Framework

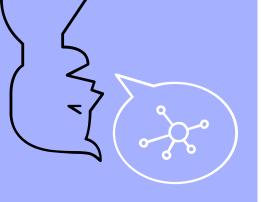
- Functionality Testing with Backend

#### Backend:

- Third party API integration and hardware backend support

## Timeline

Week 8	Week 9	Week 10	Week 11	Week 12	Week 13
Testing	Third party API and hardware developing	Third party API and hardware developing	Third party API and hardware developing Project poster	Finalising of Project Preparation for presentation	Presentation & Submission
	UI: UI Design flow for after purchase works, feedback prompts  Frontend: Implementing React and React Native Framework  Backend:Third party API integration - Paypal payment - Google Map Location  Hardware building (part 1- the setup)	Hardware building (part 2 - continue setup)  Frontend: Implementing React and React Native Framework  Backend: Third party API integration - Paypal payment - Google Map Location	Graphic Designer: Poster Design Draft  UI: Clean up website design  Frontend: Implementing React and React Native Framework  Backend: Third party API integration - Chatbot - Hardware 3rd party integration		System Submission Final Presentation during STePS



## 

## THANKS!

