

Technical Task

Q&A

1. Do you want apps to be compatible with Android and iOS? - android

Registration

1. What will act as a login? - employee id. Password complexity? -characters/numbers.
2. How does the application understand user privilege? - HR registers employee and gives them a unique ID. Application receiving this ID gets access to employee's level of privilege.
3. How a password can be recovered (email/sms/through admin)? - email/admin.

Use/admin/HR

1. Can the admin change employee data? (Means to give permission to make changes in the database) - no, only HR.
2. Who adds new employees to the database? - HR
3. Who can look through the logs, but not edit them? - only admins
4. Is there a hierarchy among admins? - no
5. What if the admin loses his/her access to the app or their device? How do you want us to recover admin's account? - send email to another admin.
6. Who registers a visitor? - HR.
7. Who gives permission to enter a room? - administrator.
+ administrator can add a new room.
+visitor has the same access to rooms employee he/she is attached to has.

Use / regular employee

1. Do all employee classes can book a room? - all (not visitors)
2. Do all employees can have a visitor? - all (not subcontractors)
3. Room reservations : minimum/maximum time -> 1 hour - 1 day
4. If we don't have any rooms available how should we proceed in such cases? - inform HR.
5. How many rooms? - 50 (30 offices,)

6. If the room is booked and employee tries to get in there he will get a notification about booking
7. When book a room add all ID that can have access to it too.

Roles

1. visitors - open areas
2. subcontracts - book a room, cant have a visitor
3. internal employees
4. hr - creates account and modifies acc, same as privileges, approves booking
5. admin - gives qr create room modify access of a room
6. log: room, time, people

Epic

The application is designed to provide access to the internet to get information from the database and save logs. This is important to ensure that all data is current and up to date. Additionally, the application is required to have a unique ID login, which will be given by the manager. This will ensure that there is a proper audit trail and accountability for all actions taken within the application.

One of the key functionalities of the application is to allow employees to scan a QR code to access a room. If they do not have the required privilege, the application will inform them accordingly. Employees can also book a room for meetings through the application. This functionality will help streamline the booking process and ensure that all employees have access to available rooms.

The HR department can register new employees and modify the personal information of all employees using the application. This functionality will ensure that employee data is kept up to date and accurate. The admin can also add new rooms, modify access, and look through logs to ensure that everything is in order.

Another important requirement of the application is that it should work on Android devices. This will ensure that the application is accessible to all employees, regardless of the device they use.

In terms of functional requirements, the system must request authorisation when starting the application. This is important to ensure that only authorised personnel have access to the application. The system must also limit functionality for users of different categories. This will ensure that each user only has access to the functionalities that are relevant to their role.

The system must keep track of which offices users get access to and at what time. This will help improve security of the company.

User Stories/Tasks

USER STORIES.

TITLE: Register using ID & password	PRIORITY:1	ESTIMATE: 2 days
User story: As a new employee I want to register for the app using my employee ID and set up a password So that I can access the room booking system.		
Acceptance criteria: <ul style="list-style-type: none">this will check details to log into the account after entering the correct login id and password, it will check the details of a registered employee and if it is correct will log into the account.		

TITLE:	PRIORITY: 1	ESTIMATE: 2 days
User story: As a employee I want the app to automatically fetch my personal information from the employee database after entering my unique ID So that I don't have to enter my details manually.		
Acceptance criteria: Fetch data from database by employee ID(key).		

TITLE:	PRIORITY: 2	ESTIMATE: 1 day
User story: As a employee, I want to reset my password using my email or by contacting the admin in case I forget it. So that I can re-access my account.		
Acceptance criteria: Using employee ID fetch employee's email to send a new password.		

TITLE: Register using ID & password	PRIORITY: 1	ESTIMATE: 2 days
User story: As a employee I want to scan the QR code So that it allows me access to the rooms that are assigned to me by the admin.		

Acceptance criteria:

- Open scanner: this option allows an employee to scan the QR code on the door. This will search through rooms database to find out whether current employees privilege is allowed to enter the room.
- If yes, the room will be opened.
- If no, employee will receive a message.
- Info will be register with logs.

TITLE: Register using ID & password	PRIORITY: 2	ESTIMATE: 1 day
User story: As a HR I want to modify employee data, including permissions So that I can ensure that the system is up-to-date and accurate.		
Acceptance criteria: Give HR permission to modify data in database.		

TITLE: Register using ID & password	PRIORITY: 1	ESTIMATE: 1 day
User story: As a HR I want to add new employees to the database So that I can grant them access to the app and facilities.		
Acceptance criteria: <ul style="list-style-type: none">• Add user: HR can add new users after registering new users and approving details of new users. All data forwards to employees database.		

TITLE: Register using ID & password	PRIORITY: 1	ESTIMATE: 2 days
User story: As a admin I want to view the system logs to monitor usage and access but not be able to edit them. So that I have some control over the system logs		
Acceptance criteria: <ul style="list-style-type: none"> Check log details: Admin can monitor the log details of users to check authenticity of an application. Admin can look through them, but cannot modify them. 		

TITLE: Register using ID & password	PRIORITY: 3	ESTIMATE: 1 day
User story: As a admin I want to re-authenticate my access to the app through email to other admin in case I lose access to my device. So that I can re-access the system.		
Acceptance criteria: Modify reset password function to send new password to another admin.		

TITLE: Register using ID & password	PRIORITY: 2	ESTIMATE: 1 day
User story: As a HR I want to change the priority of employees So that I can change the priority of employees		

Acceptance criteria:
Modify database.

TITLE: Register using ID & password	PRIORITY: 3	ESTIMATE: 1 day
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User story:
As a employee (excluding visitors)
I want to book a room for a minimum of 1 hour and a maximum of 1 day.
So that I can have access to the room.

Acceptance criteria:

- Book meeting room: this option allows an employee to book a room for a meeting.
- Add employee in meeting room: this will allow an employee to add other employees in a booked meeting room by entering their IDs.

TITLE: Register using ID & password	PRIORITY: 4	ESTIMATE: 1 day
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User story:
As a employee
I want to receive a notification if I try to enter a room that is already booked.
So that I have adequate information about the room booked.

Acceptance criteria:
Send a notification to user account, if room they try to access is already booked.

TITLE: Register using ID & password	PRIORITY: 2	ESTIMATE: 2 days
User story: As a visitor I want to access open areas within the facility without having to book a room. So that I can access open areas without booking a room.		
Acceptance criteria: Create a common privilege that will allow minimum access.		

TITLE: Register using ID & password	PRIORITY: 3	ESTIMATE: 1 day
User story: As a subcontractor I want to book a room but not have the ability to invite visitors to the facility So that I can only book a room.		
Acceptance criteria: <ul style="list-style-type: none"> Book meeting room: this option allows subcontractors to book a room for meetings. 		

TITLE: Register using ID & password	PRIORITY: 4	ESTIMATE: 2 days
User story: As a HR I want to approve room bookings So that I can ensure that they align with company policies and resource availability.		

Acceptance criteria:

- Approve room booking: if any employee requests for room booking, it will allow or deny the request of an employee as per room availability.

TITLE: Register using ID & password	PRIORITY: 1	ESTIMATE: 2 days
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User story:

As a admin

I want to create and assign QR codes to rooms

So that the employees can easily scan and access them using the app.

Acceptance criteria:

- Create QR code: Admin can create a new QR code if a new room is created.

TITLE: Register using ID & password	PRIORITY: 1	ESTIMATE: 1 day
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User story:

As a admin

I want to manage room access and modify permissions

So that I can ensure that only authorised employees can enter certain rooms.

Acceptance criteria:

- Grant access to rooms as per priorities: Admin gives access to rooms as per the users privileges.
- Revoke access to room: Admin can anytime revoke access to a room which is already in the access of an employee.

TITLE: Register using ID & password	PRIORITY: 4	ESTIMATE: 2 days
User story: As a employee I want to view the availability of rooms before booking So that I can choose a suitable time slot.		
Acceptance criteria: This will look through the room database to search for all rooms available for booking and return them to the employee.		

TITLE: Register using ID & password	PRIORITY: 4	ESTIMATE: 2 days
User story: As a employee I want to receive a confirmation notification after successfully booking a room, with details about the booking. So that I have a confirmation about the booked room.		
Acceptance criteria: Confirm booking, send employee a notification.		

TITLE: Register using ID & password	PRIORITY: 4	ESTIMATE: 1 day
User story: As a employee I want to be able to cancel a room booking in case my plans change or the room is no longer needed. So that I can reschedule the meeting or re-book the room.		

Acceptance criteria:
Delete booking, update database.

Diagram

