

# **-- DESKIFY --**

## **ABSTRACT**

A desk booking management application is a software system that allows employees to book and reserve seats in their office space. The application simplifies the booking process, saving time for both the employees and the office management. It helps to keep track of the available seats and the booked seats, allowing employees to make informed decisions when selecting their seats.

This system simplifies the desk booking process and saves time for both employees and office management. It provides features such as desk selection, availability checking, booking policies, cancellation, and notifications. The system offers advantages such as flexibility, time-saving, improved employee experience and data analysis. It is a valuable tool for office management to manage their desk bookings efficiently and offer better services to their employees.

## PROJECT DESCRIPTION

The office desk booking system for documentation is a software project that aims to provide a digital solution for booking office desks. The system will enable employees to reserve office desks for specific time slots through an online platform, making it easier to manage office spaces and ensuring that employees have access to the necessary resources for their work.

The system will have several features, including:

- User registration: Employees will be required to create an account to access the platform.
- Desk availability: Employees will be able to view available desks, their locations, and their features, such as power outlets, drawers, and other amenities.
- Desk reservation: Employees will be able to reserve a desk for a specific date and time, as well as specify any additional requirements or equipment needed.
- Desk occupancy tracking: The system will track desk occupancy to ensure that desks are not overbooked or double-booked.
- Notification system: The system will notify employees of desk availability and confirm desk reservations.
- Desk cancellation: Employees will be able to cancel their desk reservation if they no longer require it, freeing up the desk for other employees to use.
- Admin dashboard: Administrators will have access to a dashboard that provides an overview of desk bookings, occupancy rates, and other important metrics.

The office desk booking system will be designed to be user-friendly and accessible to all employees, regardless of their technical skills. The system will be developed using modern web technologies and will be accessible from any device with an internet connection. The project will be developed following industry-standard software development methodologies, ensuring that it is scalable, reliable, and secure.

## **Problem Statement**

Develop a web-based or mobile application which helps authorized employee of Valtech India Systems Pvt. Ltd., to book a seat for himself/herself based on seat availability in any of the floors

### **Users:**

1. Employees of Valtech India
2. Admin to scan the booked info of employees

### **Reports**

Admin user should be able to generate various reports on need basis

1. Number of employees booked with the details of Emp ID, Emp Name, Floor, Timing, Food req etc...
2. Weekly and Monthly report - Employee wise how many times have come to office

## Objectives

The objective of the office desk booking system for documentation is to create a digital solution that streamlines the process of booking office desks, making it easier for employees to access the necessary resources for their work while also reducing administrative burdens. The system aims to achieve the following objectives:

- Improve office space utilization: The system will help organizations optimize the use of their office spaces by providing real-time visibility into desk availability and occupancy rates.
- Increase employee productivity: By providing employees with a hassle-free way to reserve desks, the system will minimize distractions and enable employees to focus on their work.
- Enhance collaboration: The system will enable employees to reserve desks in close proximity to their colleagues, fostering collaboration and teamwork.
- Reduce administrative burdens: The system will automate the process of desk booking, reducing the workload on administrative staff and enabling them to focus on more strategic tasks.
- Enhance employee experience: The system will provide employees with a modern, user-friendly platform for booking desks, enhancing their overall experience with the organization.

Overall, the objective of the office desk booking system for documentation is to create a more efficient, productive, and collaborative workplace environment.

## Scope

The scope of the office desk booking system for documentation includes the following:

- Desk reservation system: The system will allow employees to reserve desks for a specific date and time, as well as specify any additional requirements or equipment needed.
- Desk availability tracking: The system will provide real-time visibility into desk availability and occupancy rates, enabling employees to make informed decisions about desk reservations.
- User management system: The system will include a user management system that allows employees to create and manage their accounts, as well as reset their passwords and update their personal information.
- Notification system: The system will notify employees of desk availability and confirm desk reservations.
- Desk cancellation system: The system will enable employees to cancel their desk reservation if they no longer require it, freeing up the desk for other employees to use.
- Admin dashboard: The system will provide administrators with a dashboard that provides an overview of desk bookings, occupancy rates, and other important metrics.
- Reporting and analytics: The system will include reporting and analytics capabilities that enable administrators to generate reports on desk usage, occupancy rates, and other key metrics.

- Security: The system will include robust security features, such as data encryption, access controls, and regular security updates, to ensure that employee data is protected.

The scope of the system will be limited to desk booking and management functionalities, and will not include additional features such as room booking or facility management. However, the system may be expanded in the future to include additional functionalities based on user feedback and business requirements.

## Planning

Planning for the office desk booking system for documentation involves several key steps, including:

- Define project objectives and goals: The first step in planning the project is to clearly define the objectives and goals of the system, such as improving office space utilization, enhancing employee productivity, and reducing administrative burdens.
- Conduct a feasibility study: Before proceeding with the project, it's important to conduct a feasibility study to assess the technical, financial, and operational feasibility of the system. This may involve researching available technologies, identifying potential risks and challenges, and assessing the budget and resource requirements.
- Identify user requirements: To ensure that the system meets the needs of end-users, it's important to identify user requirements through surveys, interviews, and focus groups. This will help to determine what features and functionalities are most important to users, and will inform the development of the system's user interface.
- Develop a project plan: The project plan should include a detailed timeline, budget, and resource allocation plan, as well as a list of project deliverables and milestones. The plan should be developed in consultation with key stakeholders, including project sponsors, end-users, and technical staff.
- Identify technical requirements: The system's technical requirements should be identified, including the hardware and software components needed to develop and deploy the system. This may involve selecting a development platform, programming language, and database management system, among other components.



- Design the system architecture: The system architecture should be designed, including the overall system structure, the data flow, and the user interface. This will involve creating detailed design documents and wireframes, as well as developing a prototype to test the system's functionality.
- Develop and test the system: Once the system architecture has been designed, the system can be developed and tested. This may involve creating code, integrating third-party components, and conducting unit, integration, and system testing to ensure that the system functions as intended.
- Implement and deploy the system: Once the system has been developed and tested, it can be implemented and deployed. This may involve configuring the system for production use, training end-users, and developing support and maintenance procedures.
- Monitor and evaluate the system: After the system has been deployed, it's important to monitor its performance and evaluate its impact on business operations. This may involve conducting user surveys, analyzing system logs, and collecting performance metrics to identify areas for improvement.

By following these planning steps, organizations can ensure that the office desk booking system for documentation is developed and deployed successfully, meeting the needs of end-users and delivering measurable benefits to the organization.

## Analysis

The analysis phase of the office desk booking system for documentation involves several key activities, including:

**Business analysis:** This involves identifying the business requirements for the system, such as improving office space utilization, reducing administrative burdens, and enhancing employee productivity. Business analysis also involves identifying the key stakeholders and understanding their needs and expectations for the system.

**User analysis:** This involves identifying the users of the system and understanding their needs and preferences. This may involve conducting user surveys, interviews, and focus groups to gather feedback and identify user requirements.

**Functional analysis:** This involves identifying the functional requirements for the system, such as desk reservation, desk availability tracking, user management, notification system, desk cancellation system, admin dashboard, reporting and analytics, and security features.

**Technical analysis:** This involves identifying the technical requirements for the system, such as the hardware and software components needed to develop and deploy the system. Technical analysis also involves identifying any technical constraints or limitations that may impact the development of the system.

**Risk analysis:** This involves identifying the risks associated with the development and deployment of the system, such as technical risks, schedule risks, and budget risks. Risk analysis also involves developing risk mitigation strategies to address potential risks.

Cost-benefit analysis: This involves analyzing the costs associated with the development and deployment of the system, as well as the expected benefits to the organization. Cost-benefit analysis is used to determine whether the benefits of the system outweigh the costs, and to justify the investment in the system.

Feasibility analysis: This involves assessing the technical, financial, and operational feasibility of the system. Feasibility analysis is used to determine whether the system can be developed within the available resources, and whether it will meet the needs of end-users and stakeholders.

By conducting a thorough analysis of the requirements and constraints of the office desk booking system for documentation, organizations can ensure that the system is developed and deployed successfully, meeting the needs of end-users and delivering measurable benefits to the organization.

## Design

The design phase of the office desk booking system for documentation involves creating a detailed system architecture and user interface design. The key design activities are:

- System Architecture Design: This involves defining the overall structure of the system, including the hardware and software components needed to develop and deploy the system. The system architecture design should consider factors such as scalability, performance, and security.
- Data Model Design: This involves designing the data model for the system, including defining the data entities, attributes, relationships, and constraints. The data model design should ensure that the system can store and retrieve data efficiently and accurately.
- User Interface Design: This involves designing the user interface for the system, including the layout, colors, fonts, and navigation. The user interface design should be user-friendly, intuitive, and easy to use, and should meet the needs and preferences of end-users.
- Component Design: This involves designing the individual components of the system, such as the desk reservation module, user management module, notification system, desk cancellation module, admin dashboard module, reporting and analytics module, and security features. The component design should ensure that the system components work seamlessly together and meet the functional requirements of the system.
- Integration Design: This involves designing the integration points between the system components and any third-party systems that the system needs to interface with. Integration design should ensure that the system can communicate with other systems effectively and securely.

- Test Plan Design: This involves designing the test plan for the system, including identifying the types of tests that will be conducted, such as unit testing, integration testing, and system testing. The test plan design should ensure that the system is thoroughly tested to ensure that it meets the functional and non-functional requirements of the system.

By conducting a thorough design process, organizations can ensure that the office desk booking system for documentation is developed and deployed successfully, meeting the needs of end-users and delivering measurable benefits to the organization.

## Implementation

The implementation phase of the office desk booking system for documentation involves the actual development and deployment of the system. The key implementation activities are:

- Coding: This involves writing the code for the system components, including the desk reservation module, user management module, notification system, desk cancellation module, admin dashboard module, reporting and analytics module, and security features. The coding should follow the design specifications and industry best practices.
- Testing: This involves testing the system components, including unit testing, integration testing, and system testing, to ensure that they function correctly and meet the functional and non-functional requirements of the system.
- Deployment: This involves deploying the system on the production environment, including installing and configuring the hardware and software components needed to run the system.
- Training: This involves training end-users and administrators on how to use the system, including how to make desk reservations, cancel desk reservations, manage user accounts, and access reports and analytics.
- Maintenance: This involves ongoing maintenance and support of the system, including bug fixes, upgrades, and system enhancements. Maintenance activities should ensure that the system is secure, stable, and performs optimally.

- User Acceptance Testing: This involves testing the system with end-users to ensure that it meets their needs and expectations. User acceptance testing should be conducted before the system is fully deployed to production to ensure that any issues are addressed before the system is released.

By following a structured implementation process, organizations can ensure that the office desk booking system for documentation is developed and deployed successfully, meeting the needs of end-users and delivering measurable benefits to the organization.

## Expected Outcome

The expected outcome of the office desk booking system for documentation is to provide a user-friendly, efficient, and effective system that simplifies the process of booking and managing office desks for employees. The system should help to reduce time and effort spent by employees in finding and booking available desks, and should also help to improve the overall utilization of office space.

Specifically, some of the expected outcomes of the office desk booking system for documentation are:

- Improved Desk Utilization: The system should help to optimize the utilization of office space by ensuring that desks are assigned to employees who need them, and that unused desks are released back into the pool of available desks.
- Simplified Desk Booking Process: The system should make it easy for employees to book desks through a user-friendly and intuitive interface, and should also provide options to book desks for future dates or recurring bookings.
- Efficient Desk Management: The system should allow administrators to manage desks efficiently, including adding or removing desks, updating desk configurations, and tracking desk availability and usage.
- Enhanced Reporting and Analytics: The system should provide real-time reporting and analytics capabilities to help administrators make informed decisions about office space utilization, employee productivity, and other key performance indicators.
- Improved Employee Experience: The system should enhance the overall employee experience by providing a simple and convenient way to book office desks, reducing time and effort spent in finding available desks, and improving employee satisfaction and productivity.



Overall, the expected outcome of the office desk booking system for documentation is to provide a modern and efficient solution for managing office space and improving the employee experience.

## Significance of Project

The office desk booking system for documentation is a significant project that can bring numerous benefits to an organization. Some of the key significance of the project are:

- Improved Space Utilization: The system can help organizations optimize the utilization of office space by ensuring that desks are assigned to employees who need them, and that unused desks are released back into the pool of available desks. This can result in significant cost savings for the organization.
- Increased Productivity: By simplifying the desk booking process and reducing the time and effort spent by employees in finding and booking available desks, the system can help to increase employee productivity, which can have a positive impact on the organization's bottom line.
- Enhanced Employee Experience: The system can improve the overall employee experience by providing a simple and convenient way to book office desks, reducing time and effort spent in finding available desks, and improving employee satisfaction and productivity.
- Improved Data Collection and Reporting: The system can provide real-time data collection and reporting capabilities that can help organizations make informed decisions about office space utilization, employee productivity, and other key performance indicators.
- Increased Flexibility: The system can provide employees with the flexibility to book desks for future dates or recurring bookings, which can help to accommodate the changing needs of the organization and its employees.

Overall, the office desk booking system for documentation can bring significant benefits to an organization, including cost savings, increased productivity, improved employee satisfaction, and enhanced decision-making capabilities. The significance of the project lies in its ability to address the challenges associated with managing office space efficiently and effectively, while providing a modern and convenient solution for employees.

## System Requirements

### Hardware Requirements:

Processor: Intel Core i5 or above

RAM: 8 GB or above

Storage: 256 GB SSD or above

### Software Requirements:

Operating System: Windows 10 or Enterprise (64-bit)

Development Environment: Visual Studio 2019 or above

.NET Core SDK: 5.0 or above

Database: Microsoft SQL Server 2017 or above

Web Server: Internet Information Services (IIS) or Kestrel

For the MVC with ASP .NET Core application, the following additional software requirements are needed:

ASP .NET Core Runtime: 3.1 or above

Entity Framework Core: 3.1 or above

Bootstrap: 4.0 or above

It is recommended to have the latest versions of the required software installed to ensure compatibility and optimal performance. Additionally, hardware requirements may vary depending on the size of the application and the number of users accessing the system simultaneously.

## **Technologies Used:**

- For Frontend: HTML, CSS, Bootstrap, JavaScript
- For Backend: C#, ASP.NET
- For Database: SQL Pre-requisites:
- Microsoft Visual Studio
- Microsoft SQL Server Express
- Microsoft SQL Server Management Studio (SSMS)

## **HOW TO RUN**

1- Install the following:

- Microsoft Visual Studio
- Microsoft SQL Server Express
- Microsoft SQL Server Management Studio (SSMS)

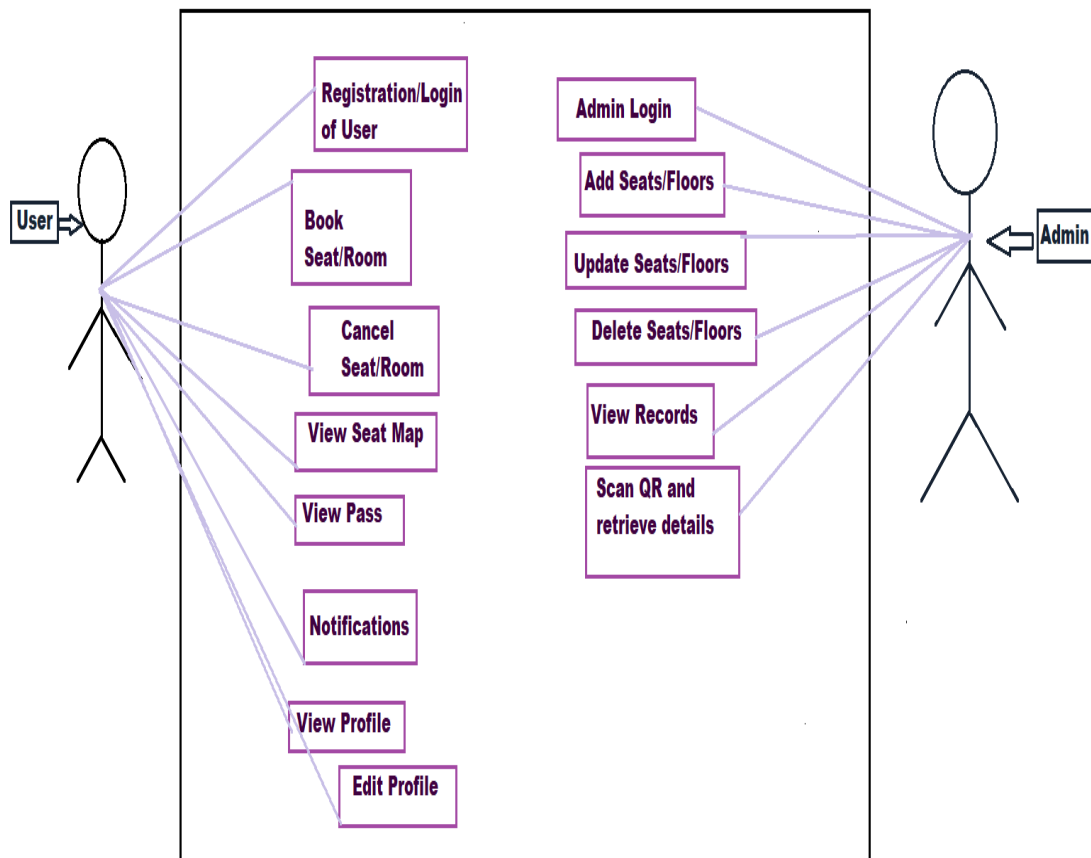
2- Open SQL Server Management Studio and in the "Connect to Database Engine" window copy the Server name and update the Data Source in the SqlConnectionString.

3- Update the database through the Package Manager Console.

4- Start the API Project by viewing it in on any browser without running it on IIS Express.

5- Everything is setup now! You can run the project by making the MVC project as startup project and click run button named IIS Express.

## USER-CASE DIAGRAM



## DATABASE SCHEMA OF Deskify Acronyms Used:

- U - Uniqueness Constraint / Entity Integrity Constraint
- NN - Not Null • FK – Foreign Key Constraint / Referential Integrity Constraint
- PK – Primary Key Constraint (U, NN)

### Schema Constructs:

#### Table name: Login Table

- ID is PK

Login Table		
Column Name	Datatype	Constraints
<b>ID</b>	int (autoincrement)	PK (U, NN)
<b>Password</b>	string	NN
<b>Email</b>	string	NN
<b>Type</b>	int	NN

**Table name: Choices**

- ChoiceId is PK
- BookingSeatID is FK from BookingSeat Table

Choices		
Column Name	Datatype	Constraints
ChoiceId	int	PK (U, NN)
FoodPreferences	string	
Data	string	
BookingSeatID	int	NN

**Table name: Floor**

- FloorId is PK

Floor		
Column Name	Datatype	Constraints
FloorId	int	PK (U, NN)
FloorName	string	



**Table name: BookingRoom**

- BookingRoomId is PK
- EmployeeID is FK from Employee Table
- RoomId is FK from Room Table

<b>BookingRoom</b>		
<b>Column Name</b>	<b>Datatype</b>	<b>Constrain ts</b>
<b>BookingRoomId</b>	int	PK (U, NN)
<b>RoomStatus</b>	int	
<b>ToDate</b>	DateTime	
<b>FromDate</b>	DateTime	
<b>MeetingHours</b>	string	
<b>MeetingStart</b>	DateTime	
<b>MeetingEnd</b>	DateTime	
<b>NumberofPeople</b>	int	
<b>RoomId</b>	int	NN
<b>EmployeeID</b>	int	NN

**Table name: BookingSeat**

- BookingSeatId is PK
- EmployeeID is FK from Employee Table
- SeatID is FK from Seat Table

<b>BookingSeat</b>		
<b>Column Name</b>	<b>Datatype</b>	<b>Constrain ts</b>
<b>BookingSeatId</b>	int	PK (U, NN)
<b>SeatStatus</b>	int	
<b>ToDate</b>	DateTime	
<b>FromDate</b>	DateTime	
<b>SeatShiftTime</b>	string	
<b>ShiftStart</b>	DateTime	
<b>ShiftEnd</b>	DateTime	
<b>bookingcount</b>	int	
<b>SeatID</b>	int	NN
<b>EmployeeID</b>	int	NN

**Table name: QRScanner**

- QId is PK
- BookingSeatId is FK from BooingSeat Table

<b>QRScanner</b>		
<b>Column Name</b>	<b>Datatype</b>	<b>Constrain ts</b>
<b>QId</b>	int	PK (U, NN)
<b>QRCode</b>	Byte[]	
<b>BookingSeatId</b>	int	NN

**Table name: Employee**

- EmployeeID is PK and FK from Login Table

<b>Employee</b>		
<b>Column Name</b>	<b>Datatype</b>	<b>Constrain ts</b>
<b>EmployeeID</b>	int	PK (U, NN)
<b>EmployeeName</b>	string	
<b>EmployeeNumber</b>	int	
<b>Role</b>	string	NN
<b>Image</b>	Byte[]	
<b>PhoneNumber</b>	string	
<b>Gender</b>	char	
<b>SecurityQuestion</b>	string	

**Table name: Room**

- RoomId is PK
- FloorId is FK from Floor Table

Room		
Column Name	Datatype	Constrain ts
RoomId	int	PK (U, NN)
RoomNumber	string	
RoomStatus	bool	
FloorId	string	NN

**Table name: Seat**

- SeatId is PK
- FloorId is FK from Floor Table

Seat		
Column Name	Datatype	Constrain ts
SeatId	int	PK (U, NN)
SeatNumber	string	
Status	bool	
FloorId	int	NN

**Table name: SecretKey**

- SecretId is PK
- BookingSeatId is FK from Floor Table

<b>SecretKey</b>		
<b>Column Name</b>	<b>Datatype</b>	<b>Constrain ts</b>
<b>SecretId</b>	int	PK (U, NN)
<b>SecretKeyGen</b>	string	
<b>SecretKeyType</b>	string	
<b>BookingSeatId</b>	int	NN

## Class Diagram











## **FUNCTIONAL REQUIREMENTS**

### **User Requirement:**

#### **Login and Register**

##### **Registration:**

- The user accesses the registration page and provides their basic details such as name, email address, and contact information.
- The system creates a user account and redirects the user to the login page.

##### **Login:**

- The user accesses the login page and enters their registered email address and password.
- The system validates the user's credentials and authenticates the user.
- The system redirects the user to their dashboard or the main page of the system.

In addition to the basic registration and login functionalities, some office desk booking systems may also include the following features:

- Password Reset: The system allows users to reset their password if they forget it by sending a password reset link to their registered email address.
- Account Management: The system allows users to update their profile information, change their password, and delete their account if needed.

## **Booking Seat and Booking Room**

### **Booking Seat:**

- The user logs in to the system and navigates to the desk booking page.
- The user selects the date and time they want to book a desk for.
- The system displays the available desks for the selected date and time.
- The user selects a desk from the available options and confirms the booking.
- The system updates the desk availability status and sends a notification to the user.

### **Booking Room:**

- The user logs in to the system and navigates to the room booking page.
- The user selects the date and time they want to book a room for.
- The system displays the available rooms for the selected date and time.
- The user selects a room from the available options and confirms the booking.

## **Cancel Seat and Cancel Room**

### **Cancel Seat:**

- The user logs in to the system and navigates to their booking history page.
- The user selects the desk booking they want to cancel.
- The system displays the booking details and asks the user to confirm the cancellation.
- The user confirms the cancellation, and the system updates the desk availability status and sends a notification to the user.

### **Cancel Room:**

- The user logs in to the system and navigates to their booking history page.
- The user selects the room booking they want to cancel.
- The system displays the booking details and asks the user to confirm the cancellation.

## **View Pass for Seat Booking**

- After the user has booked a seat, the system generates a QR code pass that contains the booking details.
- The user can view and download the QR code pass from their booking history page.
- The user can also receive the QR code pass .

- When the user arrives at the office, they can show the QR code pass to the designated personnel for verification.
- The personnel scans the QR code pass with a mobile device, and the system confirms the booking details.
- The user is granted access to the booked seat.

Overall, the View Pass functionality for seat booking using QR code is critical for ensuring that the office desk booking system for documentation is secure, efficient, and convenient for users.

## **View Seat and Room Map**

### **View Seat Map:**

- The user logs in to the system and navigates to the seat booking page.
- The system displays a seat map that shows the availability status of each desk.
- The user can select a desk on the map to view its details such as location, amenities, and availability schedule.
- The user can then proceed to book the selected desk.

### **View Room Map:**

- The user logs in to the system and navigates to the room booking page.
- The system displays a room map that shows the availability status of each room.
- The user can select a room on the map to view its details such as size, capacity, equipment, and availability schedule.
- The user can then proceed to book the selected room.

## **Notification**

- When user books a seat the system sends a notification to the user as like your seat is booked.
- When user cancel a seat the system sends a notification to the user as like your seat is canceled.
- When user unable to book a seat it will go to pending state and sends a notification as like your seat is in pending and it will cancel automatically as soon as timeout.

## **View Profile and Edit Profile**

### **View Profile:**

- The user logs in to the system and navigates to the profile page.
- The system displays the user's profile information such as name, email, phone number, role ,gender and employeeId.
- The user can view and verify the information , and update it if necessary.

### **Edit Profile:**

- The user logs in to the system and navigates to the profile page.
- The system displays the user's profile information in editable fields.
- The user can edit and update the information such as name, email, phone number, role ,gender, employeeId and password.
- The user can then save the changes, and the system updates the profile accordingly.

## **Admin Requirement:**

### **View Records**

- The admin logs in to the system with their credentials.
- The system displays the admin dashboard or control panel, which includes various options and features for managing the system and the users.
- The admin navigates to the View Records section or module, which allows them to view and manage the booking records of all users or specific users.
- The system displays the booking records in a table or list format, showing the details such as date, time, user name, desk or room number, and status (booked, cancelled, or modified).
- The admin can filter, sort, or search the records based on various criteria such as date range and employeeId.
- The admin can also view the QR code passes of the bookings, or download the booking reports in various formats such as CSV or PDF.

### **Manage Floor**

Adding, editing or deleting the floor plans: The admin may have the ability to create new floor plans, edit existing floor plans or delete them as per the requirement.

### **Manage Seat**

Adding or editing the seats : The admin may be able to add or edit the seats on the floor plan by specifying their unique ID or number, location, capacity, amenities and other relevant details.

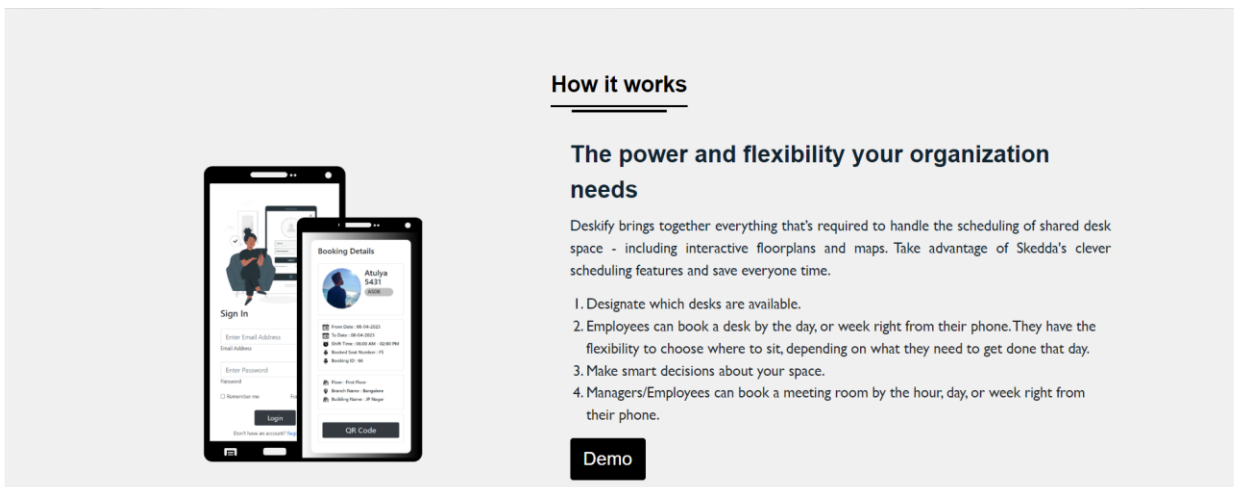
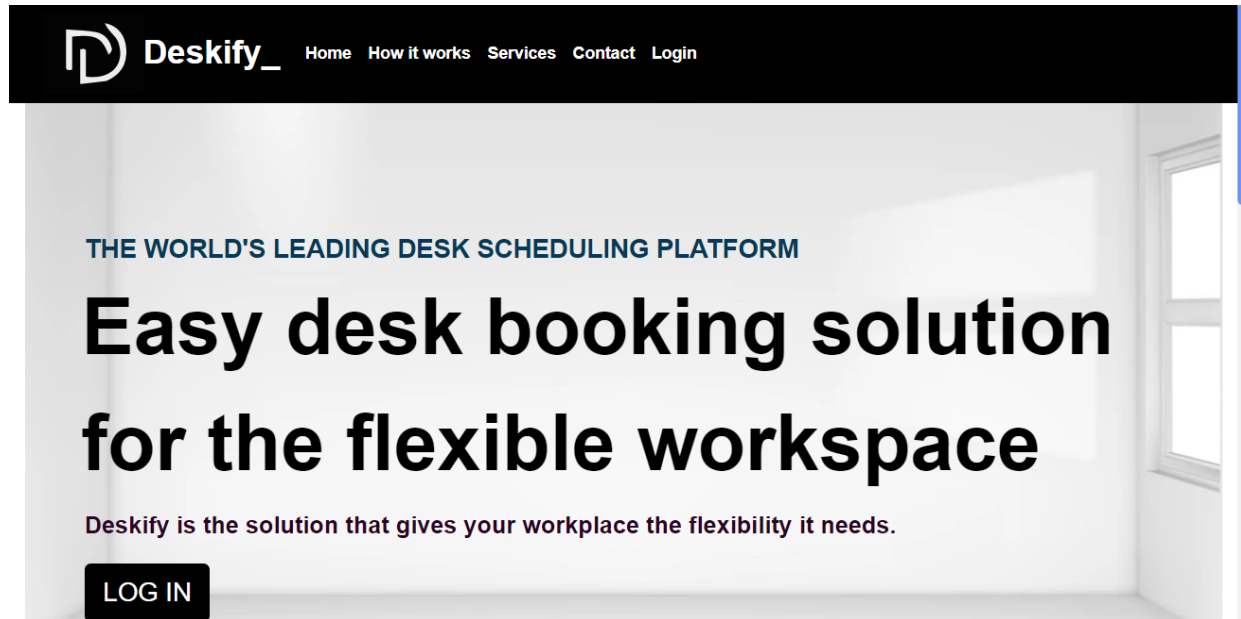
## **Manage Room**

Adding or editing the rooms: The admin may be able to add or edit the rooms on the floor plan by specifying their unique ID or number, location, capacity, amenities and other relevant details.



## FUNCTIONALITIES IMPLEMENTED(USER STORIES)

### Home Page:



### Feature-packed, simple to use



#### Desk Booking

Give your team the flexibility to choose where they sit to get the most out of the day.



#### Desk Hoteling

Allow employees to schedule a desk reservation by the day or week.



#### Meeting Room Hoteling

Allow employees to schedule a meeting room reservation by the hour.



#### Mobile Friendly

Make it easy for employees to find and book a desk directly from the Deskify web application.



#### Workspace Maps

Display an interactive map of your space so employees can easily find and book their desk.



#### All-star Support

Our friendly and knowledgeable team is always ready to help you.



### Support and Help

#### Any Query?

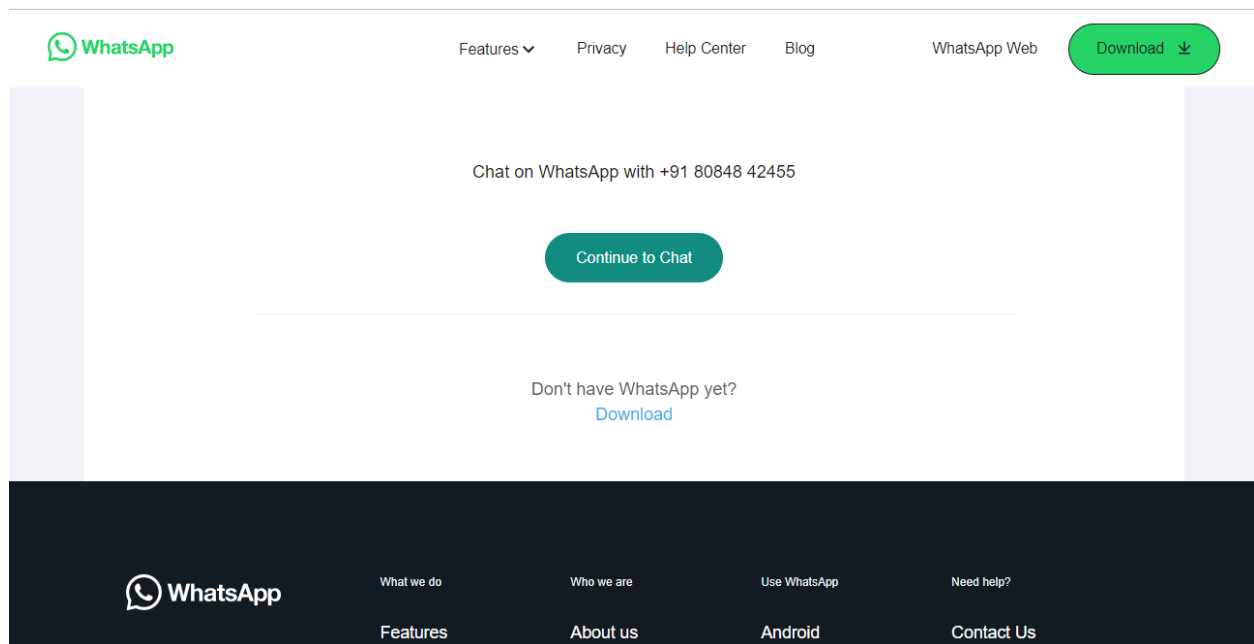
Address : 30/A, 1st Main Rd, Industrial Suburb, 3rd Phase, J. P. Nagar, Bengaluru, Karnataka 560078

Phone : +91 8084845524

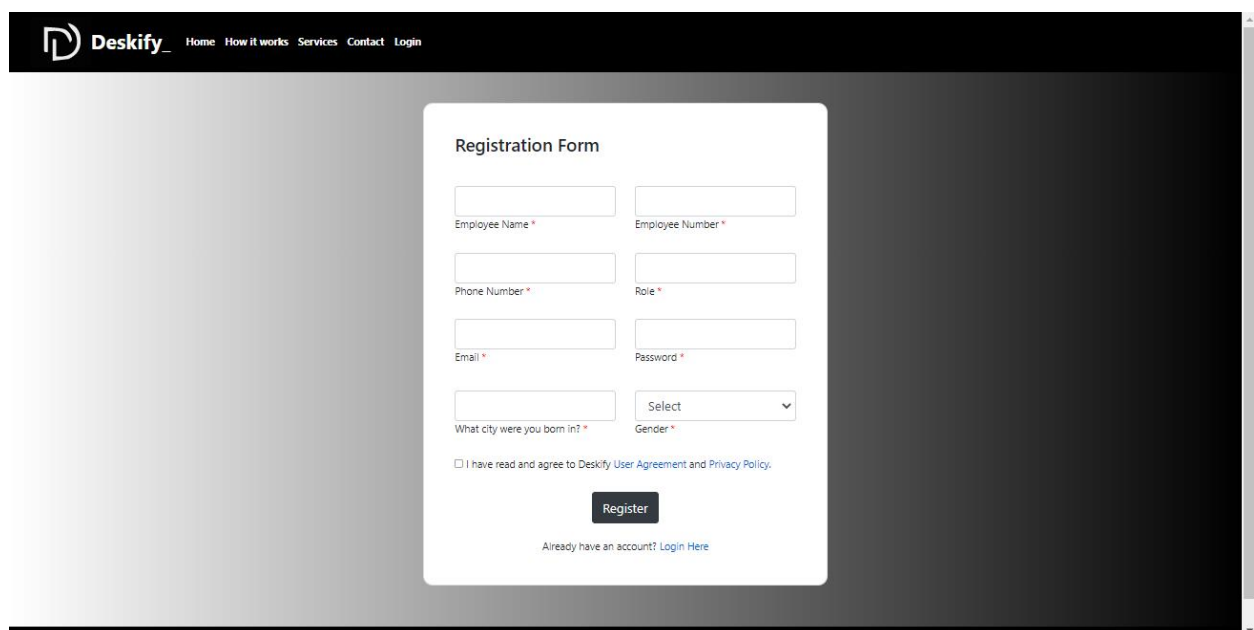
Email : support@deskify.com

[Let's Chat](#)

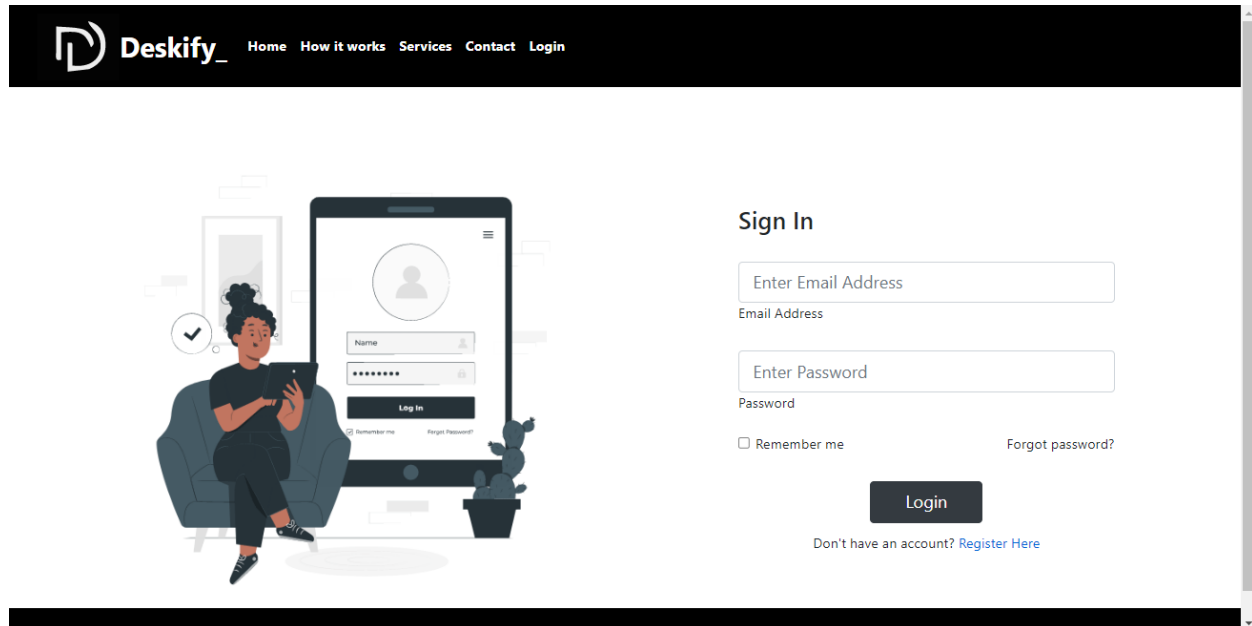
**Contact Me Page :** If user have any query they can contact .



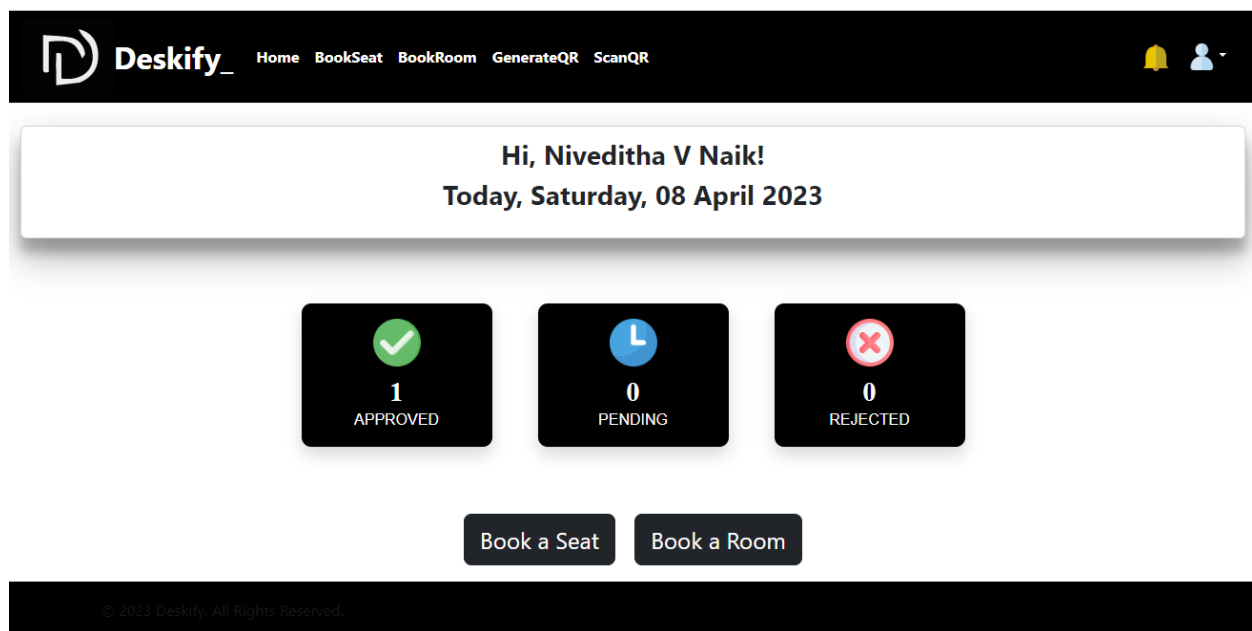
**Register page:** The user accesses the registration page and provides their basic details such as name, email address, and contact information.

A mockup of a registration form. The form is titled 'Registration Form' and is set against a dark background. It contains several input fields: 'Employee Name \*', 'Employee Number \*', 'Phone Number \*', 'Role \*', 'Email \*', 'Password \*', 'What city were you born in? \*', and 'Gender \*'. There is a dropdown menu for 'Select' and a checkbox for 'I have read and agree to Deskify User Agreement and Privacy Policy.'. A 'Register' button is at the bottom of the form. Below the button, it says 'Already have an account? Login Here'.

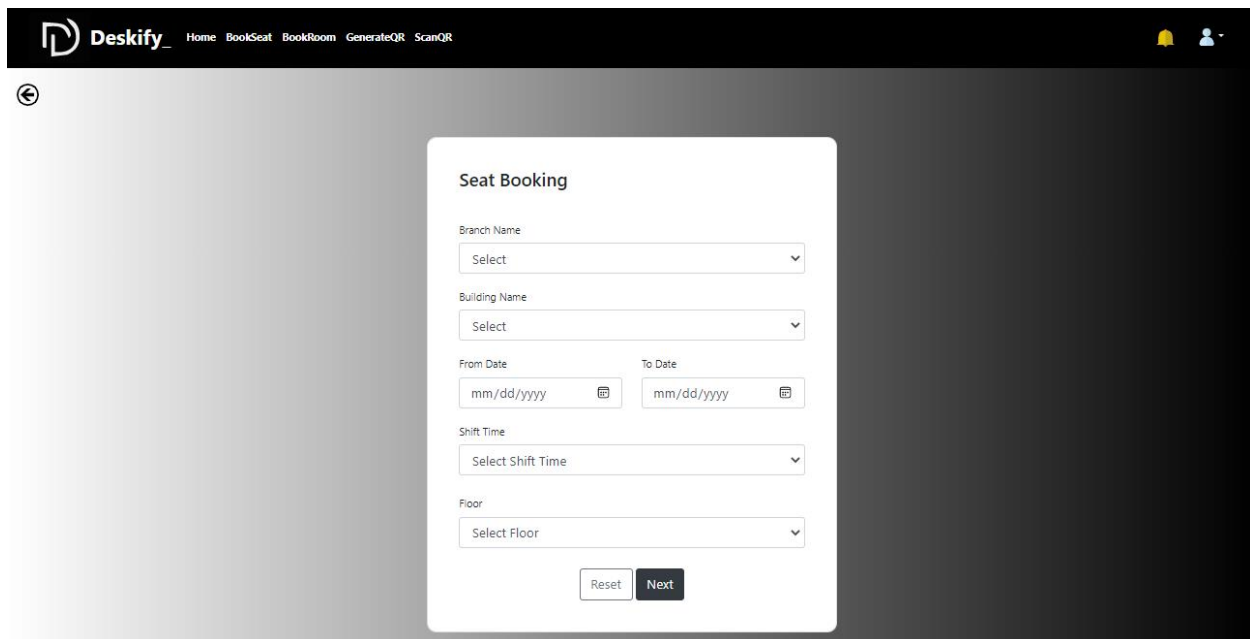
**Login Page:** The user and admin accesses the login page and enters their registered email address and password.



**User Dashboard:** This page contains the greeting for the user as per name and the date, user can bookseat, room, generateqr for scanning ,see notification and also visit the profile.

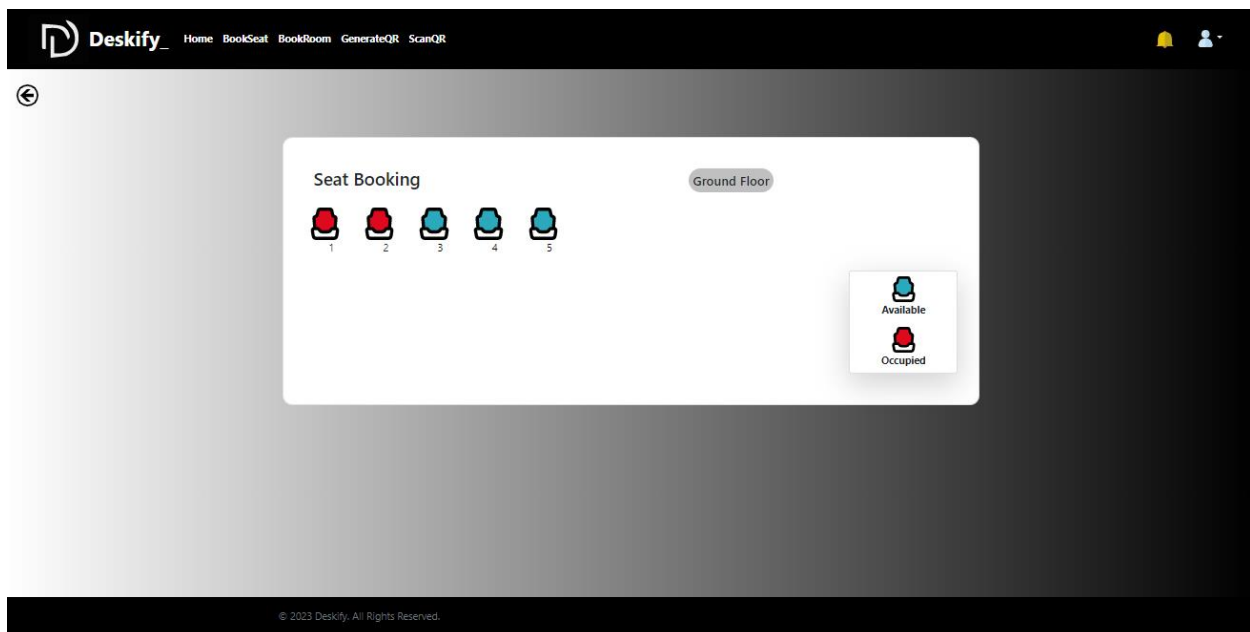


**BookSeat:** In this page the user as to enter the details for booking the seat.



The screenshot shows the 'BookSeat' form in the Deskify\_ application. The form is titled 'Seat Booking' and is set against a dark background. It contains several input fields: 'Branch Name' and 'Building Name' are dropdown menus with 'Select' as the placeholder text. 'From Date' and 'To Date' are date pickers with 'mm/dd/yyyy' as the placeholder text. 'Shift Time' is a dropdown menu with 'Select Shift Time' as the placeholder text. 'Floor' is a dropdown menu with 'Select Floor' as the placeholder text. At the bottom of the form are two buttons: 'Reset' and 'Next'.

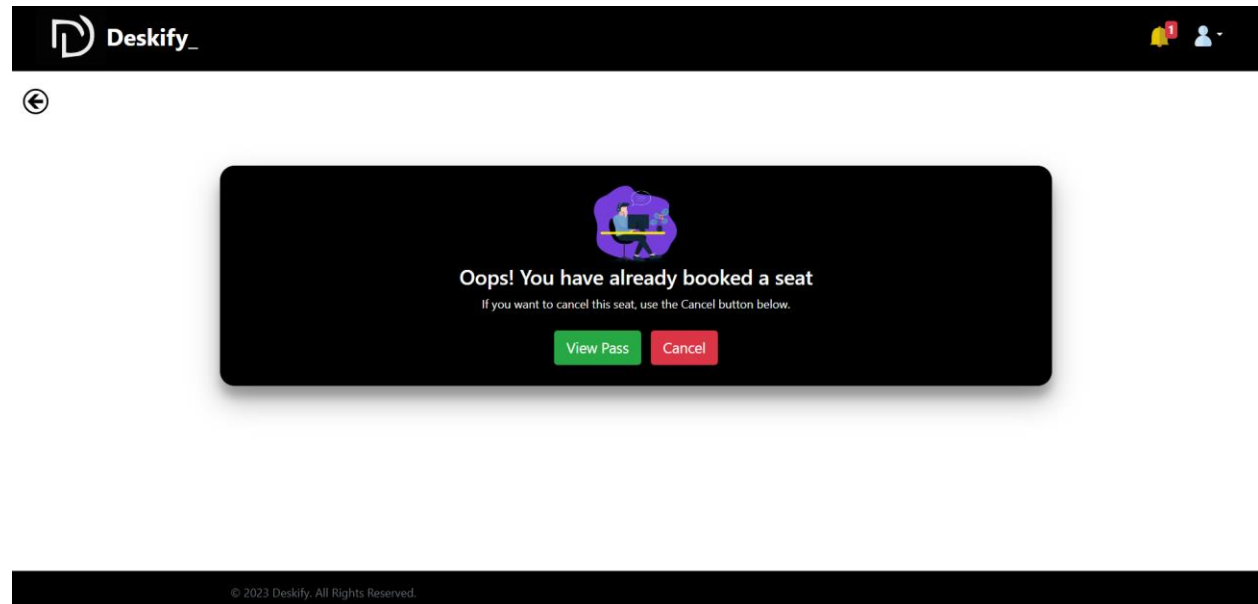
**SeatMap:** This page displays how many seat are available and occupied for the booking, user can select the available seat to book a seat for himself.



**Questionnaire Page:** This page is used to get confirmation if the user have the food in the office not.

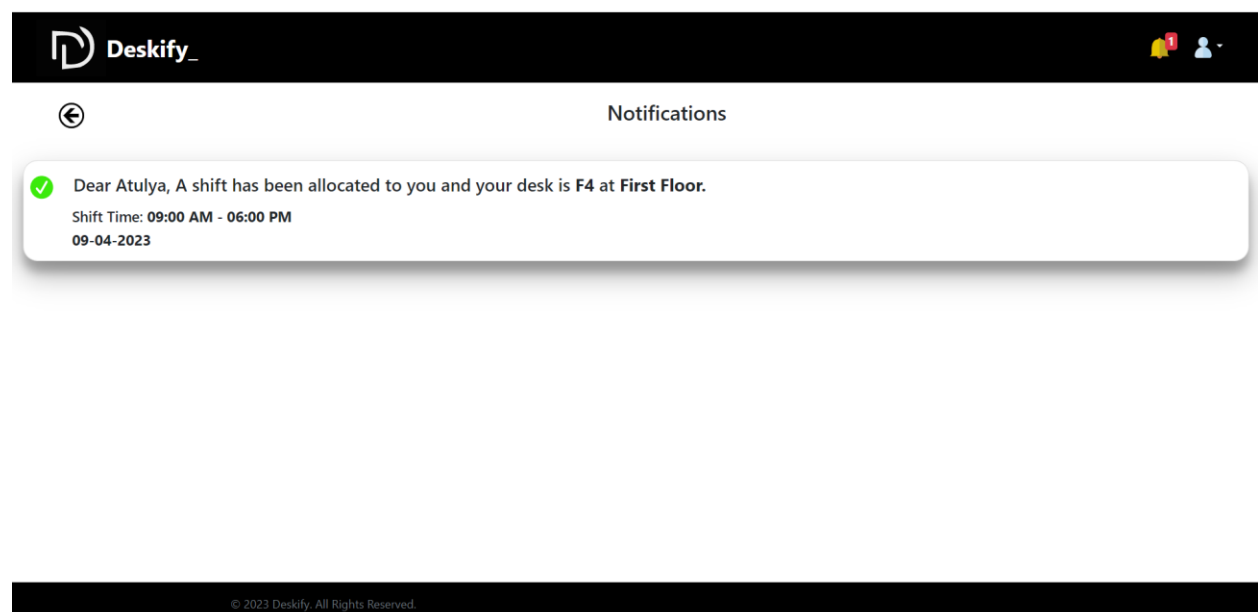
**Seat Booking Details:** This page show the booking details after user book the seat.

**Cancel Booking:** This page display the user can able to cancel the booking.

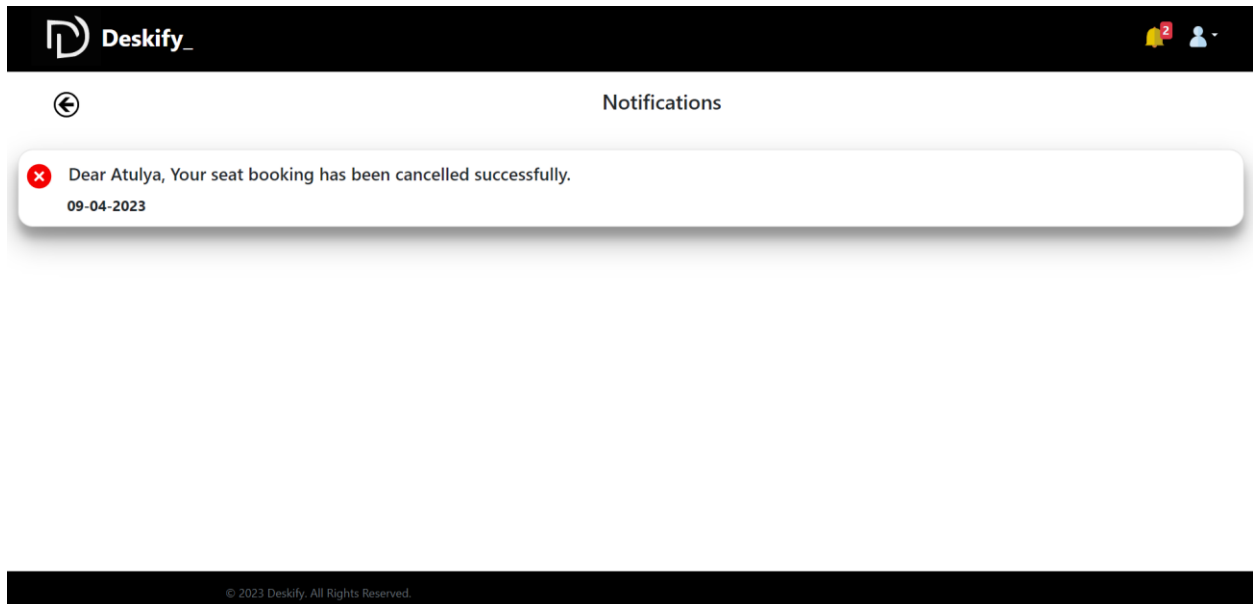


**Notification:** This page display the notification after user book the seat and also the user cancel the booked seat.

Notification for booking seat:



## Notification for Cancel booking:

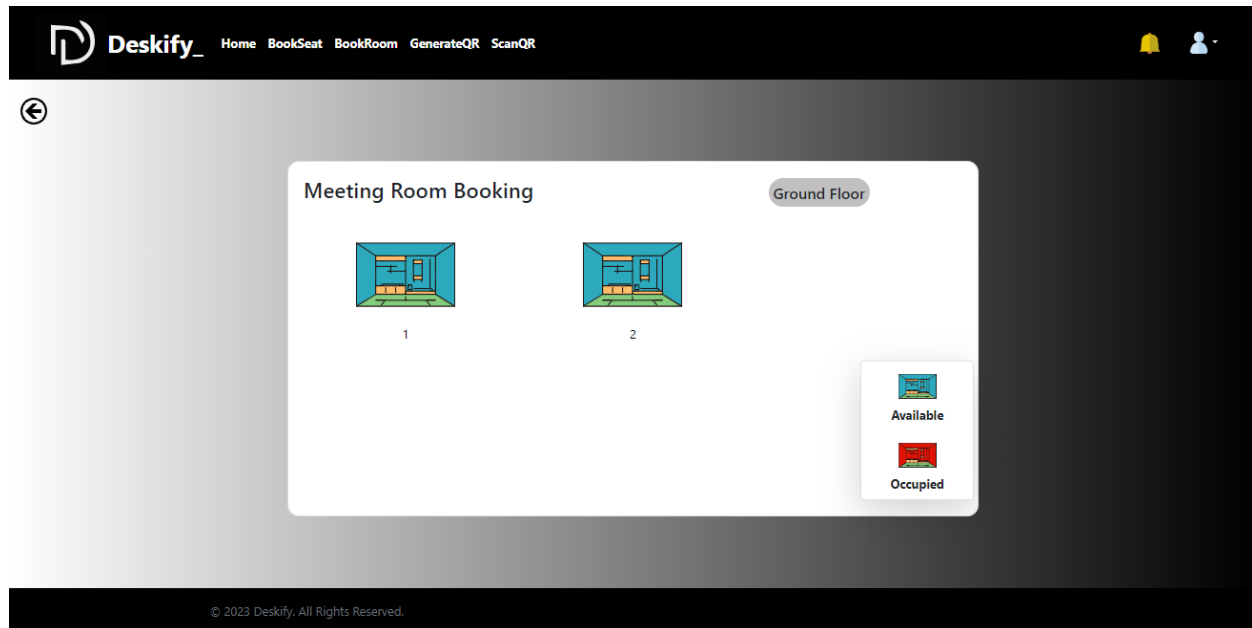


## BookingRoom: In this page the user as to enter the details for booking the room.

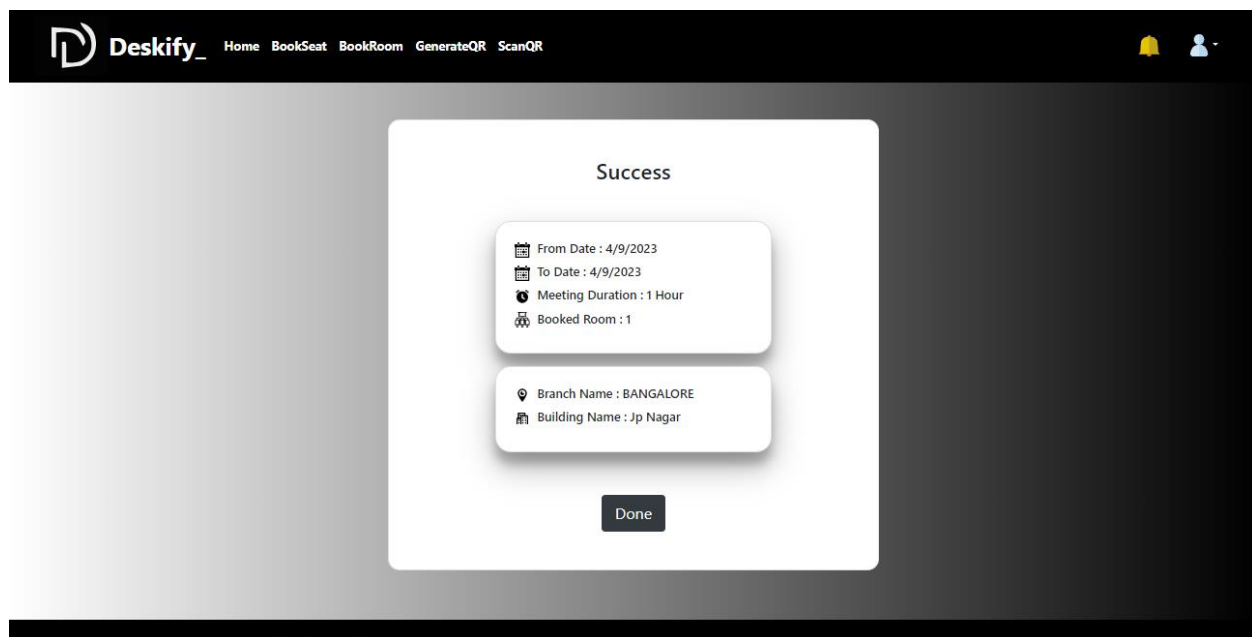
The screenshot displays the "Meeting Room Booking" form within the Deskify\_ application. The form is centered on a dark background. It includes the following fields: "Branch Name" (dropdown menu), "Building Name" (dropdown menu), "From Date" (date picker), "To Date" (date picker), "Meeting Hours" (dropdown menu), and "Floor" (dropdown menu). At the bottom of the form, there are "Reset" and "Next" buttons. The application's navigation bar at the top shows the Deskify\_ logo and links to "Home", "BookSeat", "BookRoom", "GenerateQR", and "ScanQR".



**RoomMap:** This page displays how many room are available and occupied for the booking, user can select the available room to book a room for himself.



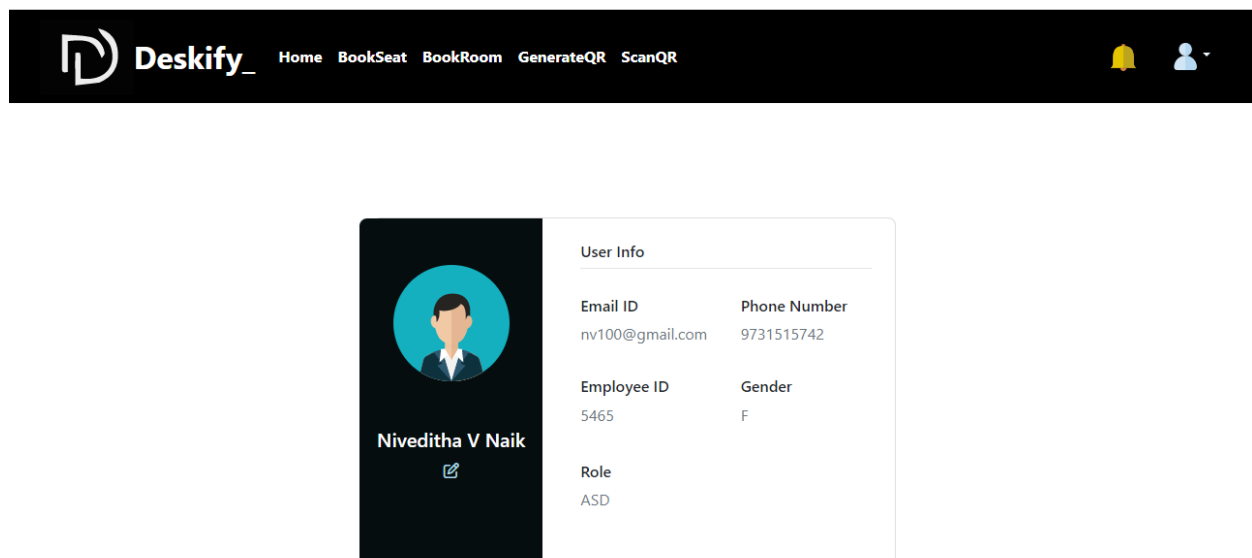
**Room Booking Details:** This page show the booking details after user book the room.



**GenerateQr:** This page have the Qr code for scanning after booking.



**ViewProfile:** This page displays the user's profile information such as name, email, phone number, role ,gender and employeeId.

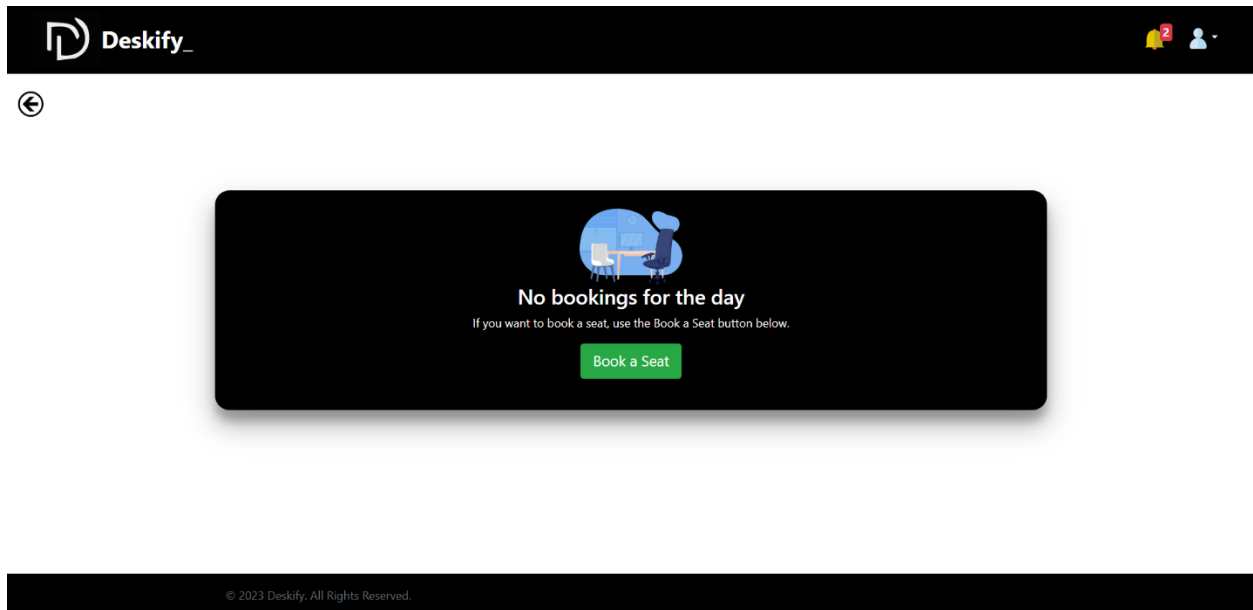


**EditProfile:** The user can edit and update the information such as name, email, phone number, role ,gender, employeeId .

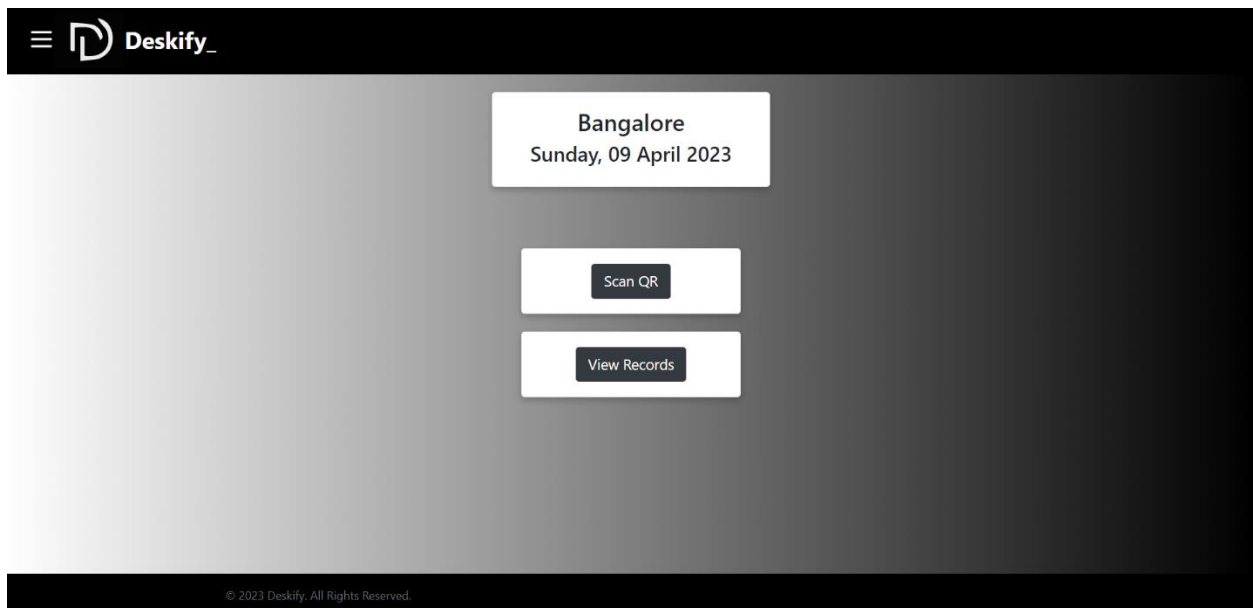
**ViewPass:** This page displays after seat booking by this page he can go to get the qr code for booking.

Viewpass after booking seat:

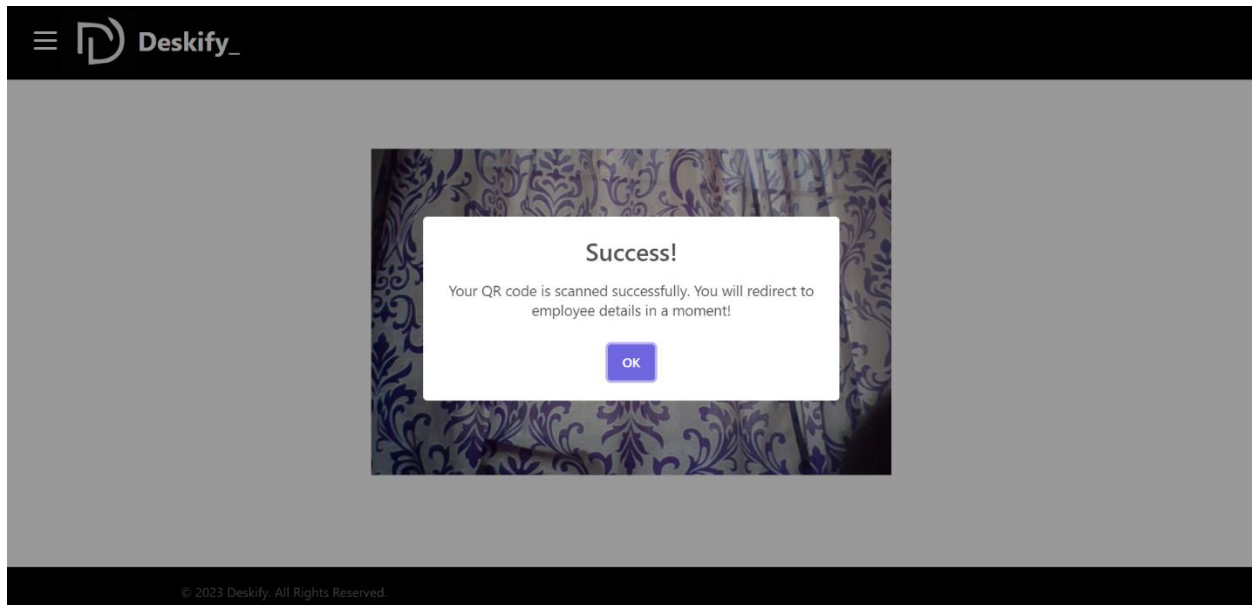
Viewpass before booking seat:



**Admin Dashboard:** This page display the scan Qr and view records.



**Scan Qr:** This page display the qr code scanner for admin to scan the booked seat for the confirmation.

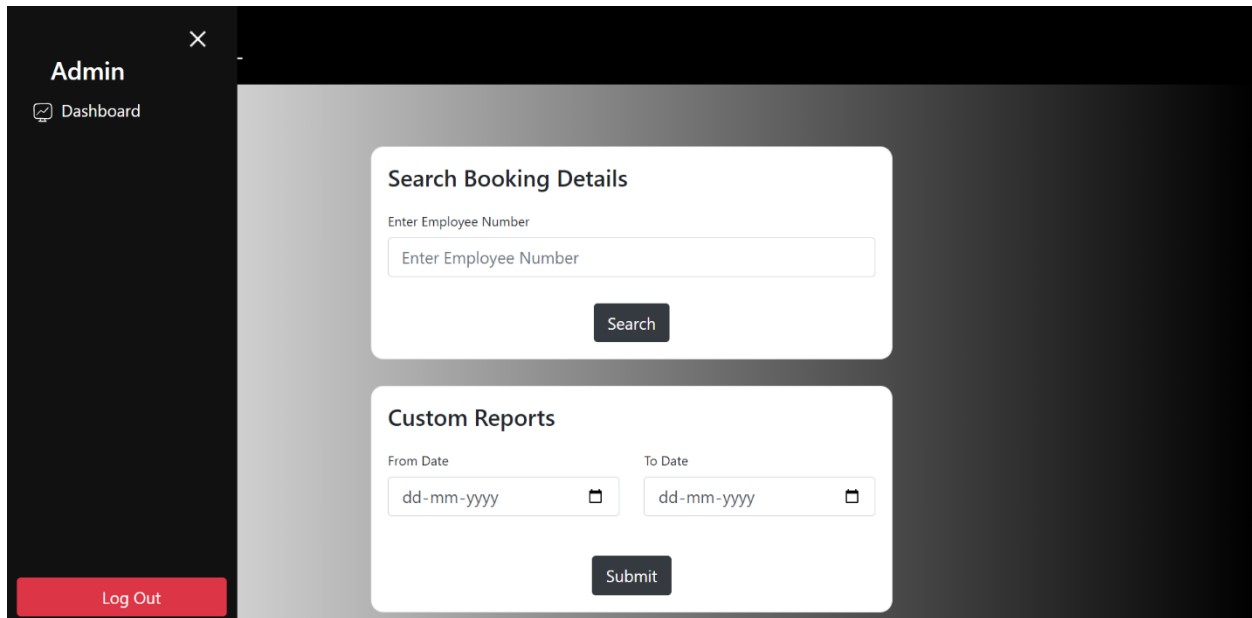


**View Records:** This page display all records of the user who have booked the seat.

The screenshot shows the Deskify\_ application interface. At the top, there is a dark header with the Deskify\_ logo and a hamburger menu icon. Below the header, there is a light gray background. In the center, there is a white modal box with a blue border. The modal box contains the text "Success!" in bold, followed by "Your QR code is scanned successfully. You will redirect to employee details in a moment!". Below the text is a blue button with the text "OK". The background of the modal box is a decorative pattern of blue and white floral motifs. At the bottom of the application, there is a dark footer with the text "© 2023 Deskify. All Rights Reserved."

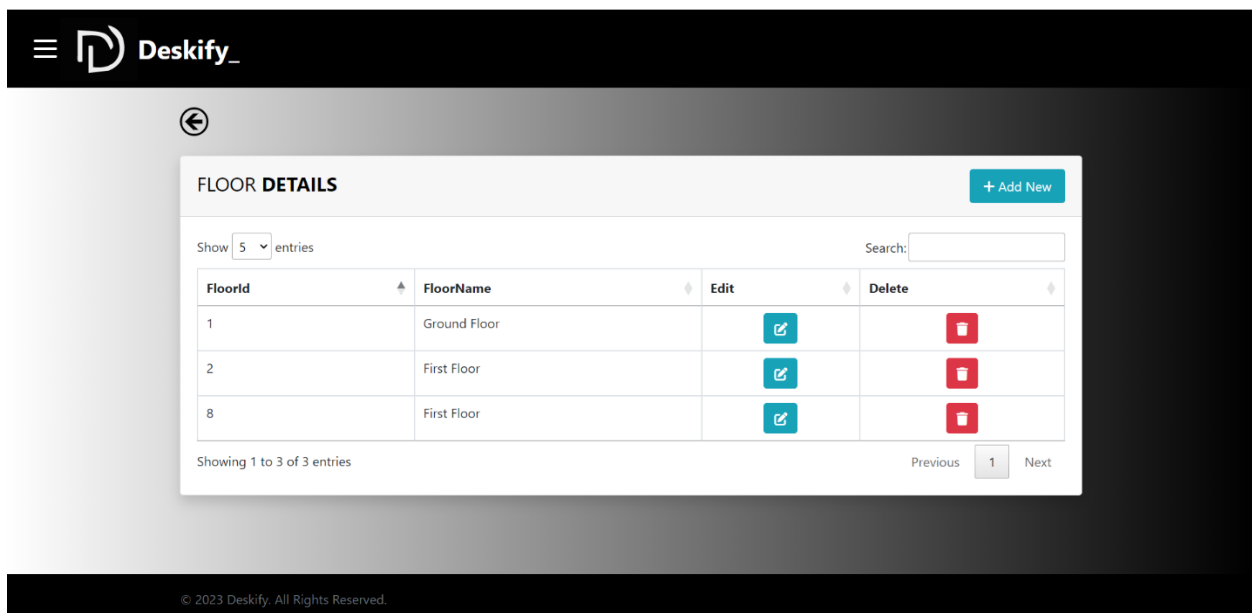
Booking Seat Id	Employee Name	Employee Number	Seat Status	FromDate	ToDate	Shift Time	Seat Number
79	Atulya	5431	1	09-04-2023	09-04-2023	02:00 PM - 10:00 PM	F4
78	Atulya	5431	2	09-04-2023	09-04-2023	09:00 AM - 06:00 PM	F4
77	Atulya	5431	2	09-04-2023	09-04-2023	09:00 AM - 06:00 PM	1A1
76	Atulya	5431	2	09-04-2023	09-04-2023	09:00 AM - 06:00 PM	1A1
75	Atulya	5431	2	09-04-2023	09-04-2023	09:00 AM - 06:00 PM	F4

**Searching and Sorting:** This page display searching by employee number and sorting by the date for booked seat.









The screenshot shows an Admin Dashboard with a dark sidebar. The sidebar contains a 'Dashboard' link with a checkmark icon and a 'Log Out' button. The main content area has two white cards. The first card, 'Search Booking Details', has a label 'Enter Employee Number' and a text input field with the placeholder 'Enter Employee Number', followed by a 'Search' button. The second card, 'Custom Reports', has two date pickers labeled 'From Date' and 'To Date' with the format 'dd-mm-yyyy', followed by a 'Submit' button.

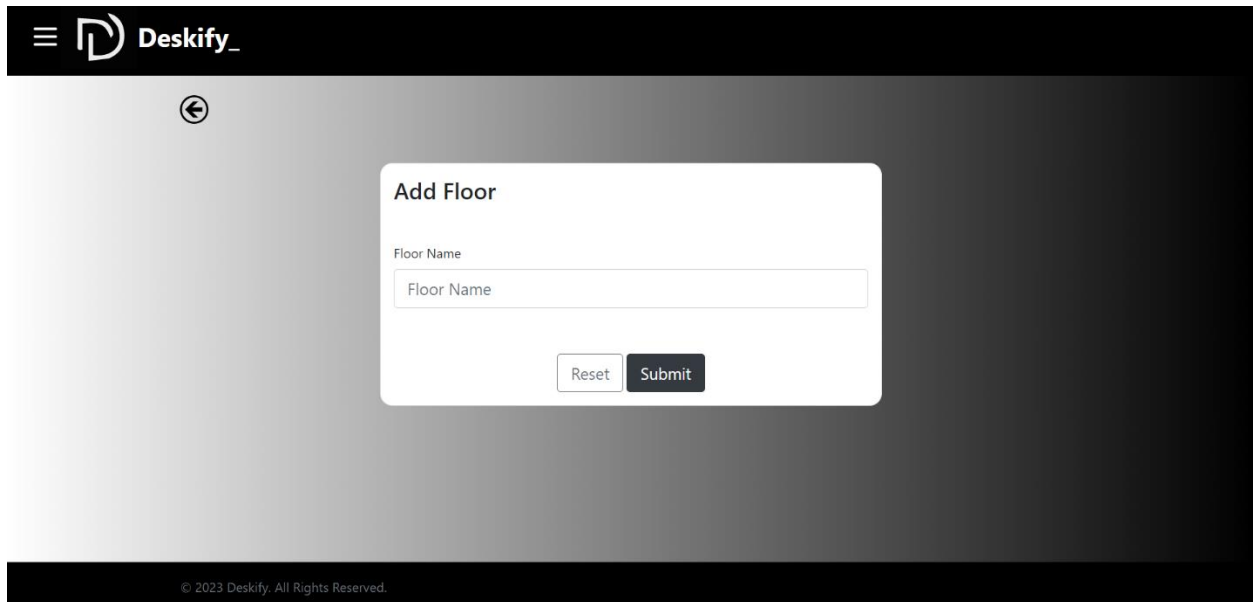
**Floor Details:** This page displays all the details of the floor.



The screenshot shows the 'FLOOR DETAILS' page. It has a header with a hamburger menu, the Deskify\_ logo, and a '+ Add New' button. Below the header is a table with 4 columns: FloorId, FloorName, Edit, and Delete. The table contains 3 rows of data. At the bottom of the table, there is a pagination bar showing 'Showing 1 to 3 of 3 entries' and 'Previous 1 Next'.

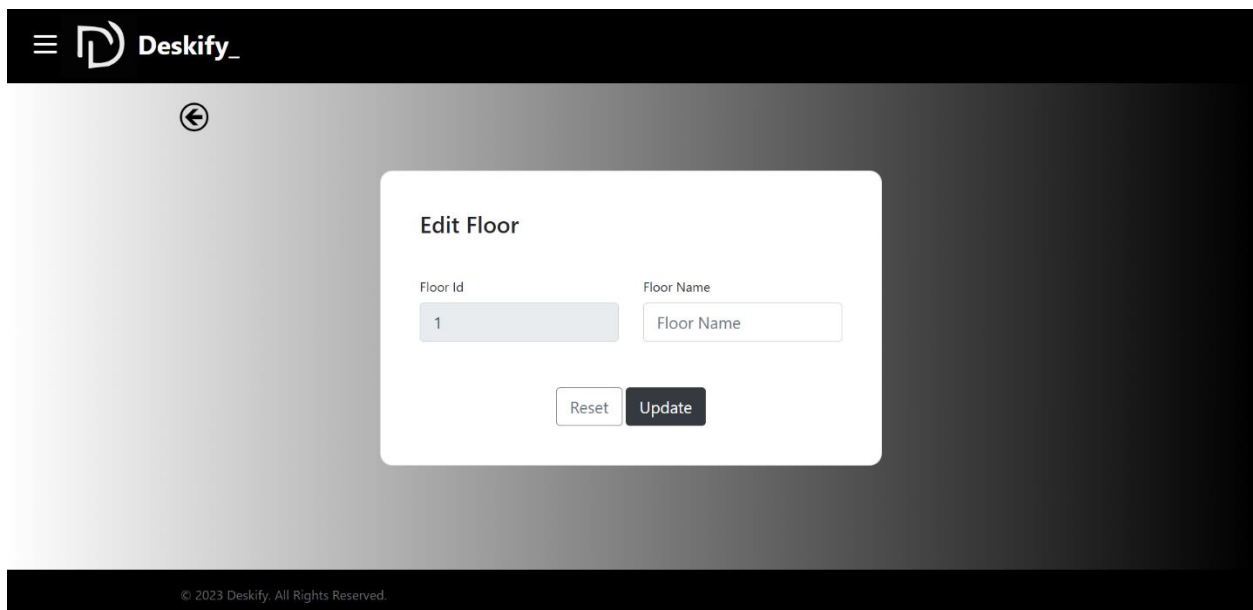
FloorId	FloorName	Edit	Delete
1	Ground Floor		
2	First Floor		
8	First Floor		

**Add Floor:** This page displays admin can add the floor.



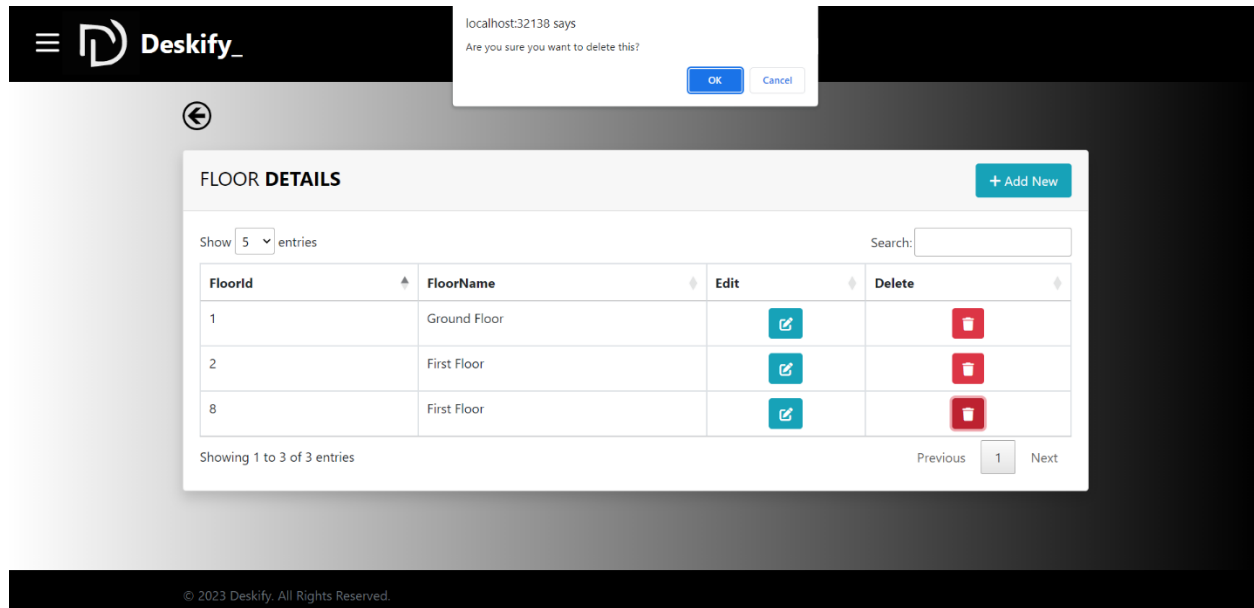
The screenshot shows the 'Add Floor' form in the Deskify\_ application. The form is titled 'Add Floor' and contains a single input field labeled 'Floor Name'. Below the input field are two buttons: 'Reset' and 'Submit'. The form is displayed on a dark background with a sidebar on the left. The sidebar contains a hamburger menu icon and the Deskify\_ logo. The footer of the page reads '© 2023 Deskify. All Rights Reserved.'

**Edit Floor:** This page displays admin can edit the floor.



The screenshot shows the 'Edit Floor' form in the Deskify\_ application. The form is titled 'Edit Floor' and contains two input fields: 'Floor Id' and 'Floor Name'. The 'Floor Id' field is pre-filled with the value '1'. Below the input fields are two buttons: 'Reset' and 'Update'. The form is displayed on a dark background with a sidebar on the left. The sidebar contains a hamburger menu icon and the Deskify\_ logo. The footer of the page reads '© 2023 Deskify. All Rights Reserved.'

**Delete Floor:** This page displays admin can delete the floor.



**Seat Details:** This page displays all the details of the seat.

**Add Seat:** This page displays admin can add the seat.

**Edit Seat:** This page displays admin can edit the seat.

**Delete Seat:** This page displays admin can delete the seat.

**Room Details:** This page displays all the details of the room.

**Add Room:** This page displays admin can add the room.

**Edit Room:** This page displays admin can edit the room.

**Delete Room:** This page displays admin can delete the room.



## Conclusions

In conclusion, an office desk booking system can streamline the desk or seat booking process and improve the overall efficiency and productivity of an organization. By providing users with a user-friendly interface, real-time availability of seats, and other relevant details, the system can save time and effort for both users and admin. The system can also help in optimizing the floor utilization and reducing the wastage of resources. The functionalities of the system can include registration and login, booking and cancellation of seats or rooms, viewing the floor plan and availability, generating reports, and notifications, among others. The system can be designed using various technologies such as MVC with ASP .NET Core and can have hardware and software requirements such as a reliable server, a robust database, and a secure communication protocol. Overall, an office desk booking system can provide a convenient and efficient solution to the challenges of desk or seat booking in a modern workplace.