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CSM3114  
FRAMEWORK BASED MOBILE APPLICATION  
ASSIGNMENT 1

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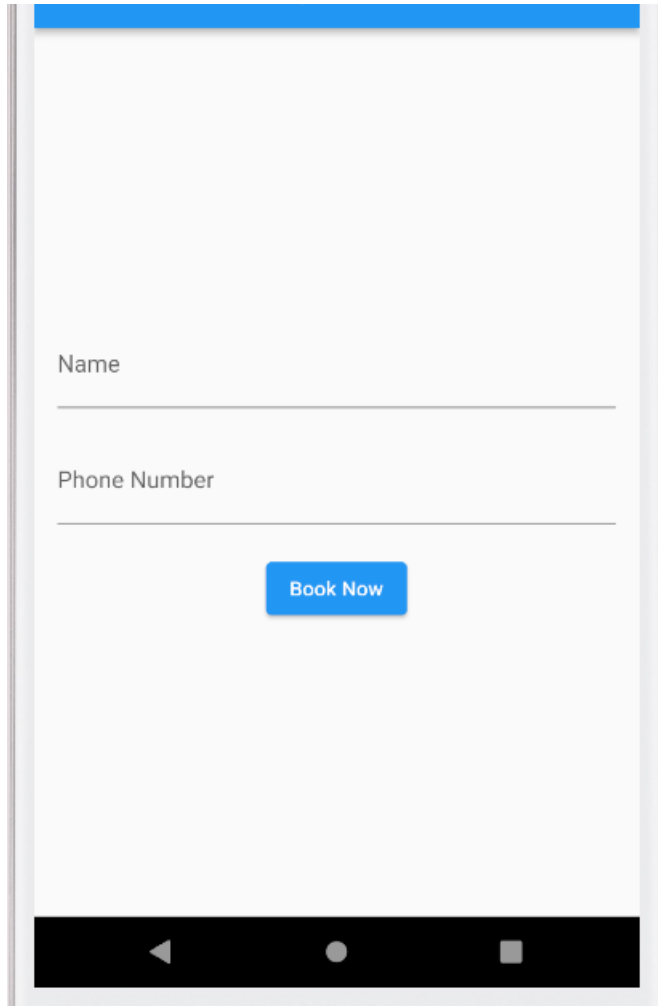
## INTRODUCTION

Effective resource management is essential to any organization's successful operation in the fast-paced world of today. A crucial resource for corporate operations is meeting rooms or spaces, as they are key for fostering cooperation, ideation sessions, presentations, and other related activities. However, manually scheduling these rooms frequently results in inefficiencies, conflicts, and double bookings, costing workers time and aggravation.

The creation of an automated booking room system becomes essential in order to handle these issues. A system like this uses technology to expedite the meeting room reservation process, giving users additional ease, speed, and convenience. This system facilitates easy scheduling, real-time availability updates, and customization choices that are customized to each user and company by offering a centralized platform that is available to all employees.

We will examine the features and advantages of a booking room system in this introduction, emphasizing how it can boost output, maximize resource use, and raise overall organizational effectiveness. We'll also go into the underlying technology and implementation aspects, stressing the value of scalability, integration with current systems, and user experience. Ultimately, the goal of a booking room system is to empower organizations to make better use of their space, time, and resources, fostering a more collaborative and productive work environment.

## PROTOTYPE WITH EXPLANATION



Name

Phone Number

Book Now

*Figure 1 - login page*

Figure 1 show that the page is for sign in, the user or student have to fill the name and the phone number if want to login the system.

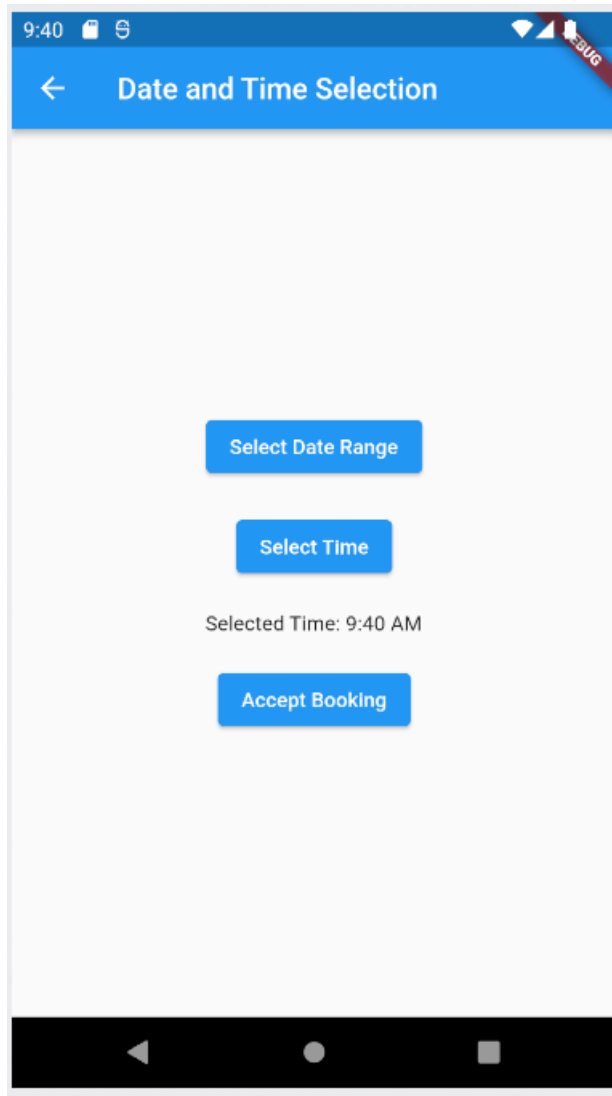
A screenshot of a mobile application's login screen. The screen has a light gray background and a blue header bar at the top. There are two input fields: the first is labeled "Name" and contains the text "amri"; the second is labeled "Phone Number" and contains the text "01115052703". Below these fields is a blue button with the text "Book Now". A virtual keyboard is overlaid on the bottom half of the screen, showing a standard QWERTY layout with a blue checkmark button on the right.

Name  
amri

Phone Number  
01115052703

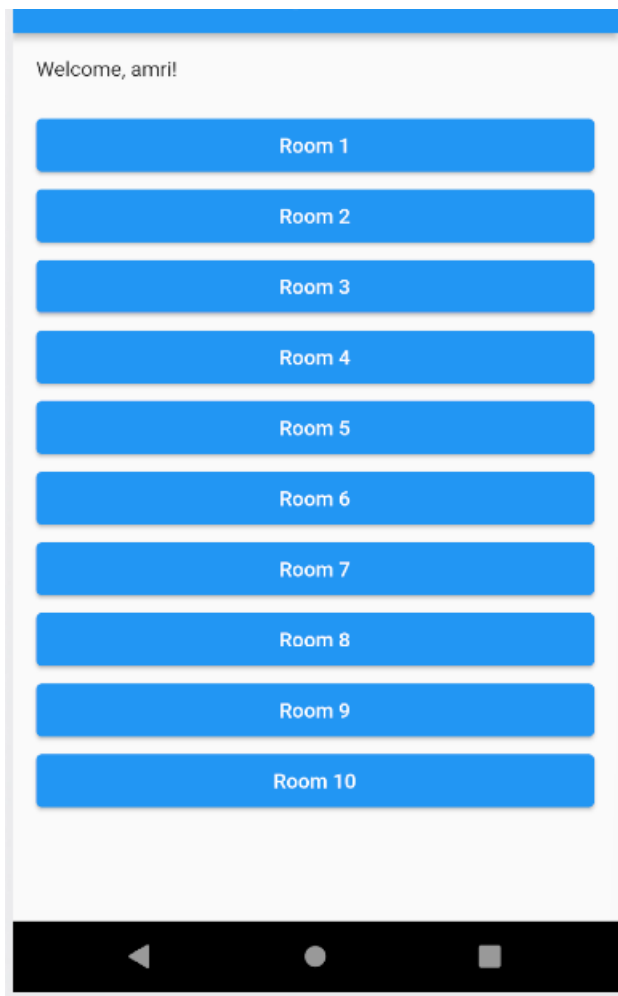
Book Now

Figure 2 - login data



*Figure 3 - Home Page*

Figure 3 that show home page that have select date, select time and accept the booking, this figure after choose the room



*Figure 4 - Room page*

Figure 3 show that this is part for user or student to choose the room that available to create a club meeting or study group

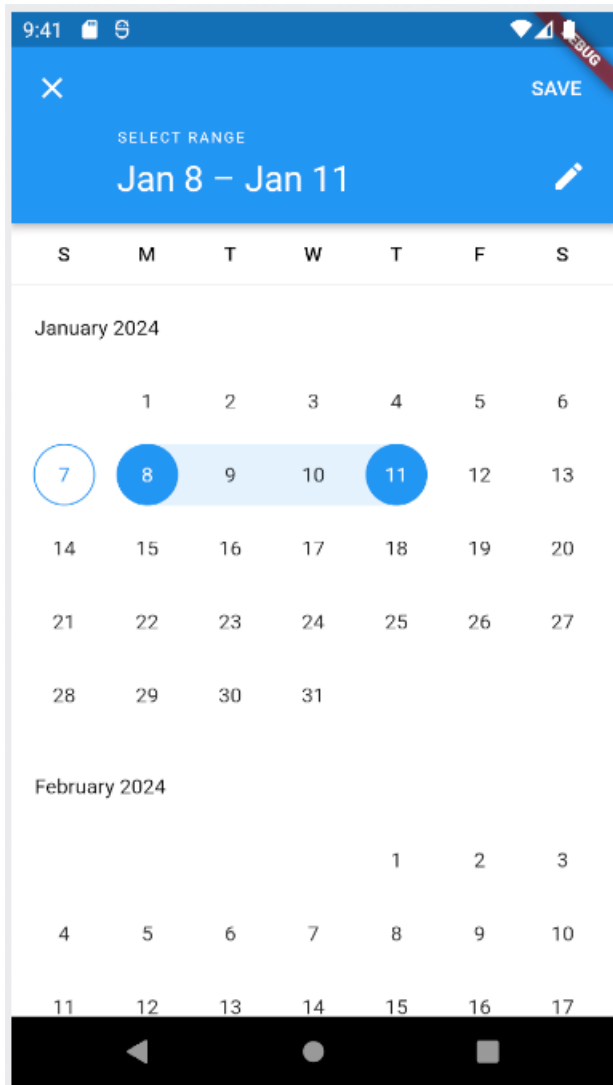


Figure 5 - Choose Date page

Figure 4 show that the user or students need to choose the date after choose the room for meeting.



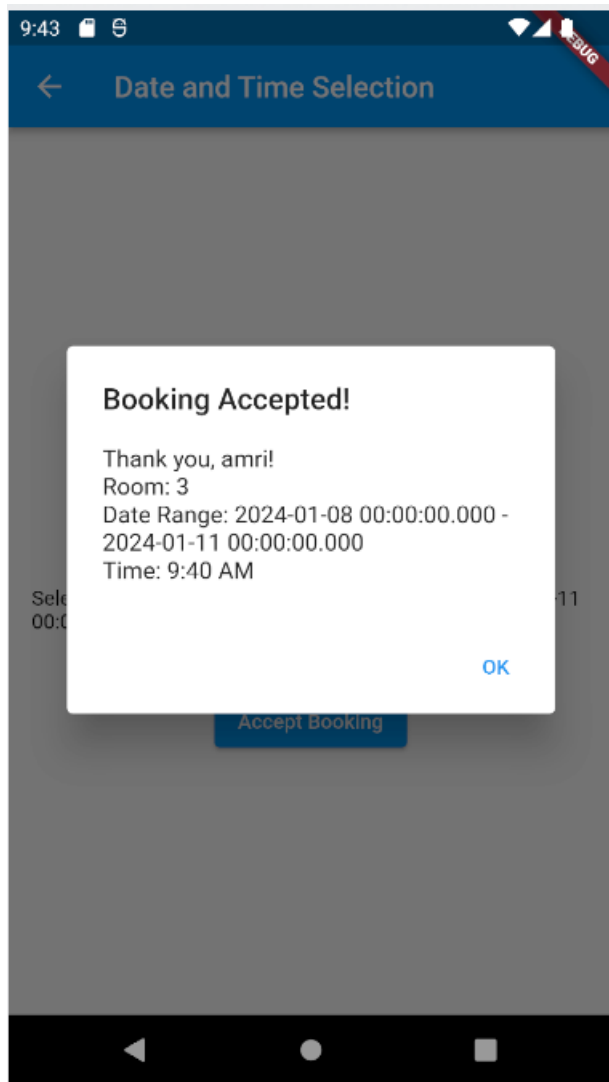


Figure 6 - Pop up page

Figure 5 show that the pop-up show after the booking complete.

## POTENTIAL COMMERCIAL

**Enhanced Productivity:** Employee time and effort spent setting up meetings and looking for available rooms is decreased when using a booking room system. Users can identify and reserve the ideal space for their needs fast with the help of user-friendly interfaces and real-time availability updates, freeing up more time for productive work tasks.

**Optimal Resource Utilization:** The technology aids firms in making the best use of their space by giving administrators the ability to monitor usage metrics and offering visibility into room utilization trends. This knowledge makes it possible to make well-informed judgments about space planning, which improves facility utilization and may result in cost savings on unused space.

**Enhanced Cooperation:** Teams, departments, and stakeholders may work together more effectively when meeting rooms are easily accessible. Employees may plan last-minute meetings, brainstorming sessions, or project talks without running into scheduling problems or delays thanks to a simplified booking procedure.

**Improved User Experience:** Manual booking procedures can cause friction and aggravation. In contrast, a well-designed booking room system provides a smooth and simple user experience. Features that can be customized, such equipment requests, catering alternatives, and lodging amenities, increase user happiness and engagement even more.

**Data-Driven Decision Making:** Based on user preferences, booking trends, and room utilization, the system provides insightful data. By using this data, organizations can increase operational efficiency and performance by making well-informed decisions about infrastructure expenditures, resource allocation, and space management.

**Competitive Advantage:** Putting in place a reservation system shows a dedication to efficiency, modernization, and worker happiness, which boosts the company's standing as a cutting-edge, technologically aware workplace. This can be a great distinction in luring excellent talent and gaining business from clients that value efficiency and teamwork.

The capacity of a booking room system to maximize resource utilization, boost productivity, and improve collaboration within organizations ultimately accounts for the economic value of the system, as it can result in cost savings, operational efficiencies, and competitive advantages in the marketplace.

## PRICING

Basic Plan:

Price: \$5 per user per month

Features:

Access to core booking functionality, including room reservation, availability checking, and cancellation.

Basic reporting on room utilization and booking history.

Email notifications for upcoming bookings and changes.

Support for up to 50 users.

Standard Plan:

Price: \$10 per user per month

Features:

All features included in the Basic Plan.

Advanced reporting and analytics dashboard for detailed insights into room usage patterns and trends.

Customizable booking options, including recurring meetings and room configurations.

Integration with calendar applications (e.g., Google Calendar, Outlook) for seamless scheduling.

Priority customer support.

Support for up to 200 users.

Enterprise Plan:

Custom pricing based on organization size and specific requirements

Features:

All features included in the Standard Plan.

Dedicated account manager for personalized support and consultation.

Custom branding and white-labeling options to align with the organization's branding guidelines.

Single sign-on (SSO) integration for enhanced security and user management.

API access for seamless integration with other business systems and workflows.

Unlimited users and advanced customization options.

Additional Services:

Onboarding and training services: \$500 one-time fee

Custom development and integrations: Pricing varies based on scope and complexity

Dedicated support packages: Pricing varies based on service level and response time

## LEARN AND LESSON

Prioritize the user experience at every stage of the development process using user-centric design. To comprehend the requirements, difficulties, and preferences of your target market, conduct in-depth user research. Create the system with accessibility, ease of use, and simplicity in mind to guarantee broad user adoption and pleasure.

**Scalability:** Plan early for future expansion and scalability needs. Build the system architecture to handle growing user, room, and booking volumes without compromising usability or performance. Build a solid database and backend infrastructure to facilitate scalability and guarantee smooth operation as the system grows.

**Integration:** Acknowledge the significance of integrating with the organization's ecosystem's current tools and systems. Make sure it works with well-known calendar apps, teamwork tools, and directory services to improve user efficiency and workflows. To enable smooth data sharing and compatibility with third-party solutions, provide APIs and integration choices.

Prioritize data security and privacy to protect sensitive information, such as user credentials, booking information, and personal information. To defend against unauthorized access, data breaches, and cyber threats, put strong authentication procedures, encryption methods, and access controls in place. To maintain regulatory compliance and foster user trust, abide by industry best practices and compliance standards (such as GDPR and HIPAA).

Gain meaningful insights into hotel use, booking trends, and user activity by utilizing data analytics and reporting tools. Give administrators simple-to-use dashboards and visualization tools so they can keep an eye on performance, spot areas for optimization, and decide on resource allocation and space management with knowledge.

Iteration and continual improvement should be embraced in order to modify the system in response to user feedback, market conditions, and technology advancements. Seek feedback from users, stakeholders, and domain experts on a regular basis to prioritize feature development, identify areas for improvement, and handle new requirements and difficulties. Iterate quickly, publish updates regularly, and maintain your flexibility when adapting to new possibilities and requirements.

## CONCLUSION

Conclusively, the creation of a system for reserving rooms presents ample prospects for streamlining procedures, augmenting efficiency, and refining resource allocation in enterprises. One way that such a system addresses typical problems with human booking processes is by automating the process of reserving meeting places. This eliminates scheduling conflicts, wastes time, and inefficiencies.

Some important lessons that come to light during the development process are the significance of giving user-centric design, scalability, integration with current systems, data security, analytics, and continual improvement top priority. Organizations may build a solid, value-driven solution that satisfies changing user and stakeholder needs by accepting these lessons and implementing them into the development process.

In the end, a well-thought-out booking room system enables businesses to utilize their time, space, and resources more effectively, promoting a more cooperative and effective work atmosphere. The technology offers significant commercial value and improves the organization's competitive position in the marketplace by providing observable benefits like enhanced productivity, efficient resource use, improved collaboration, and data-driven decision-making.

The creation of booking room systems is a strategic investment in updating workplace procedures and improving the overall employee experience, particularly as firms prioritize efficiency and innovation and continue to embrace digital transformation. Organizations may achieve unprecedented levels of productivity, agility, and success in the ever-changing business landscape of today by utilizing technology to optimize workflows.

#### REFERENCE

1. <https://chat.openai.com/share/a9ca9c15-52e3-4ca2-9da7-e5f903c61a66>
2. <https://chat.openai.com/share/0394500e-6a8d-4372-ac9e-a3e362824558>