



# Booking Room Website for FAST Learning and Development Center

**Prepared for:**  
**FAST Learning and Development Center**  
**2024**

**Prepared by:** Jhudiel Suelto  
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***FAST Logistics Learning and Development Corporation***

📍 FMW Building, 235 Alabang-Zapote Road  
Alabang, Muntinlupa City 1781 Philippines

☎ (+632) 8784-3278  
**FAST**

📍 3/F FAPC Building, MC Briones Highway  
Mandaue City 6014, Philippines

☎ (+6332) 343-7888

[www.fast.com.ph](http://www.fast.com.ph)



## 1. Project Overview

This proposal outlines the development of a **Booking Room Website** for the FAST Learning and Development Center. The website will allow users to view room availability and request room bookings. While the site will primarily focus on availability, it will include an approval system that notifies users whether their booking has been accepted or declined.

## 2. Project Objectives

The main objectives of the Room Availability Website are to:

- Present real-time room availability.
- Allow users to request bookings for available rooms.
- Provide an administrative system to approve or decline bookings.
- Notify users of booking approval or decline via email, with terms and conditions attached to approved bookings.

## 3. System Features

The website will focus on the core features of showing room availability and handling booking requests with the following capabilities:

### 3.1. Room Availability Display

- Users can view available rooms and time slots by selecting a specific date.
- Each room will have a dedicated page with a calendar or timetable showing open and reserved time slots.

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### 3.2. Booking Request System

- Users can request a room by selecting a date and time slot and submitting a booking request.
- Administrators will be able to review, approve, or decline booking requests through the admin panel.

### 3.3. Booking Approval and Decline Notifications

- If a **booking is approved**, an automatic email will be sent to the user with confirmation and an attached **Terms and Agreement** document.
- If a **booking is declined**, the user will receive a notification via email informing them of the decline.

### 3.4. Administrative Control

- Admins will have access to a backend panel where they can manage room availability, review booking requests, and approve or decline bookings.
- Admins can also update room schedules and mark time slots as unavailable when necessary.

### 3.5. Mobile-Responsive Design

- The website will be fully responsive for an optimal viewing experience across devices.

## 4. Technical Architecture

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#### 4.1. Frontend

- **Technologies:** HTML5, CSS3, JavaScript.
- **Design:** Clean, user-friendly design with a calendar view to display room availability.

#### 4.2. Backend

- **Technologies:** PHP for the backend.
- **Database:** PostgreSQL for storing room availability and booking data.

#### 4.3. Nodemailer for Email Notifications

- **Email Integration:** Nodemailer will be integrated into the Node.js backend to send email notifications.
  - **Approved Booking:** Users will receive an approval email with the Terms and Agreement document attached.
  - **Declined Booking:** Users will be notified via email of the declined booking, without any attachment.
- **Configuration:** The Nodemailer system will be configured with the appropriate SMTP server for reliable email delivery.

#### 4.4. Security

- SSL encryption to secure data transfer.
- Authentication for admin users to manage the booking system.

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## 5. Benefits of the System

The Room Availability Website provides significant benefits to FAST Learning and Development Center in terms of cost savings, time management, operational efficiency, and user experience:

### 5.1. Cost Savings

- **Reduced Administrative Overhead:** Automating the booking process eliminates the need for manual handling of room reservations, reducing the burden on administrative staff.
- **Minimized Errors:** The automated approval/decline system ensures accurate record-keeping, reducing human errors that can lead to scheduling conflicts.
- **Lower Communication Costs:** With automated email notifications (via Nodemailer), the time and resources previously spent on manually communicating booking confirmations and declines are minimized.

### 6.2. Time Efficiency

- **Instant Availability Updates:** Users can view real-time room availability without needing to call or email administrators, saving both parties time.
- **Streamlined Approval Process:** Administrators can quickly review and approve or decline bookings with just a few clicks, speeding up the decision-making process.
- **Automated Notifications:** Users are promptly informed about the status of their booking requests, improving communication turnaround times.

### 6.3. Improved User Experience

- **24/7 Availability:** Users can access the website at any time to view room availability or submit booking requests, enhancing convenience.
- **Mobile-Responsive Design:** The website is optimized for use across various devices, allowing users to check availability and book rooms on the go.

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#### 6.4. Operational Efficiency

- Centralized Booking Management: The system centralizes all booking requests and approvals, allowing administrators to efficiently manage room schedules and bookings from a single platform.
- Data Tracking: The website will store data related to room usage, helping the center track booking trends and optimize room usage in the future.

### 7. Conclusion

The Booking Room Website will simplify the process of checking room availability and requesting bookings at FAST Learning and Development Center. With its approval system, users will receive timely notifications of their booking status, and approved bookings will include an attachment of the terms and agreement. This will help streamline the room management process for administrators while ensuring users have clear, accessible booking information.

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