

School Management System





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Round - 54

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Application

The Consultant
IDB Bhaban,
Sher e Bangla, Nagar, Dhaka

Subject: Project proposal letter for the School Management System

Dear sir,

Thank you for offering us a great opportunity to make a real life project based on our core course that is Web Development with PHP and Framework(WDPF). In this project, I would like to inform you that We have decided to make a project on School Management System. We have studied about the various aspects of the system and make a proposal accordingly which is enclosed here with for your kind perusal. So, We think you will finally Approved the project and help to utilize our creativity.

Sincerely,

Name: Md. Mosharrof Hosain

ID: 1272786

Batch: WDPF/NCLC-M/54/01

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Introduction

- The purpose of this project proposal is to present the development of a comprehensive School Management Application that will serve as a centralized solution for managing various aspects of your School's operations.
- This School Management Application will offer a user-friendly interface and intuitive features, empowering your staff to efficiently handle booking, inventory, and Guest management tasks.
- With a focus on automation and data-driven decision-making, this application will streamline processes, reduce manual errors, and enhance overall productivity.
- By adopting this solution, your School will gain a competitive edge, as you will have real-time access to key performance indicators, enabling you to make informed business decisions promptly.

Objectives

- Automate the process of booking management, including order placement, tracking, and fulfillment.
- Integrate robust reporting and analytics capabilities to gain insights into booking trends, room performance, and profitability.
- Enhance security measures to protect sensitive guest and financial data.
- Provide user-friendly interfaces for easy navigation and quick adoption by School staff.
- Offer scalability and customization options to accommodate future growth and evolving business needs.
- Ensure compatibility with multiple devices, including desktops, tablets, and mobile devices, for on-the-go access to School management features.

Benefits

- Increased accuracy and productivity in managing School operations.
- Real-time tracking and analysis of Guest and inventory data for informed decision-making.
- Improved guest satisfaction through streamlined order management and invoicing processes.

ERD – Entity Relationship Diagram

School management System

Mosharraf Hosain | September 25, 2023

Diagram

Key



New table



Existing table

Course	
PK	Cours_id
	Name
	Cours fee

User	
PK	User_id
	Name
	User Name
	email
FK	Role_id
	Password
	Image

Role	
PK	Role_id
	Name

Batch	
PK	batch_id
	Batch_name
	Time

Student	
PK	Student_id
	Name
	Number
	mother_Name
	Mother_Number
	Father name
	father_Name
	District
	Address
	Collage Name
	HSC Roll
	HSC Reg
	GPA
	School Name
	SSC Roll
	SSC Reg
	SSC GPA
FK	Cours_id
FK	Branch_id
FK	batch_id
FK	Pement_id
	Image

Pement_id	
PK	Pement_id
	Name
	Number
	Date_1
	Pement_1
	Date_2
	Pement_2
	Date_3
	Pement_3
	Date_4
	Pement_4
	Date_5

Notification	
PK	Notification_id
	Title
	Date
	Desc
	Image

Class	
PK	Class_id
	Date
	Class_Name
	Teacher
	Time

Branch	
PK	Brannch_id
	Name
	Address

Timeline And Milestone:

Milestone	Duration (Days)
Requirements Gathering	2
Design and User Interface	5
Development and Coding	15
Testing and Quality Assurance	5
Deployment and Launch	2
Project Completion and Handover	1
Total Duration	30

Technical Information Source:

Information Source	Description
PHP.net	Official documentation and reference for PHP programming language
MySQL.com	Official documentation and resources for MySQL database management system
W3Schools	Online tutorials and guides for web development technologies, including PHP and MySQL
Stack Overflow	Online community for programmers to ask and answer technical questions
GitHub Repositories	Open-source projects and code repositories for PHP and MySQL
codeigniter	Official documentation and reference for codeigniter

Use of Tools and Technologies:

Tools and Technology	Description	Tools and Technology	Description
PHP	Server-side scripting language used for dynamic web development	codeigniter	Server-side scripting language used for dynamic web development
MySQL	Relational database management system for storing and retrieving data	Git	Version control system for tracking and managing code changes
HTML	Markup language for creating the structure and content of web pages	PhpStorm	Integrated development environment (IDE) for PHP development
CSS	Styling language for enhancing the appearance and layout of web pages	phpMyAdmin	Web-based administration tool for managing MySQL databases
Bootstrap	CSS framework for creating responsive and mobile-friendly web designs		

Methodology

- **Agile Development Approach:**

- We will adopt an Agile development approach to provide flexibility and adaptability throughout the project lifecycle.
- Agile emphasizes iterative development, collaboration, and regular feedback to deliver incremental value to stakeholders.
- I will specifically follow the Scrum framework, which divides the project into sprints and emphasizes frequent communication and collaboration.

- **Design and Development Phase:**

- I will design the database schema and establish the necessary entity relationships for efficient data management.
- I will develop the front-end user interface using PHP, ensuring an intuitive and user-friendly experience.
- Back-end functionality, such as inventory management, booking tracking, and reporting features, will be implemented using PHP and MySQL.
- Extensive testing and quality assurance will be performed to ensure the reliability, security, and performance of the software.

Methodology

- **Collaboration and Communication:**

- We will actively seek feedback from stakeholders and incorporate it into the development process to ensure their needs are met.
- We will utilize project management and collaboration tools, such as task tracking systems and communication platforms, to enhance transparency and efficiency.

- **Continuous Improvement:**

- Throughout the project, we will conduct regular retrospectives to identify areas of improvement and implement necessary adjustments.
- Feedback from end users and stakeholders will be highly valued and utilized to enhance the software's functionality and user experience.

Conclusion

- Our School management software proposal offers a comprehensive solution for efficient inventory and Booking management. With a well-defined Entity-Relationship Diagram (ERD) at its core, the software ensures seamless data organization and retrieval.
- In summary, our School management software proposal empowers businesses with efficient operations, optimized inventory control, and improved Guest satisfaction. It is a valuable tool for businesses of all sizes, aiding in their growth and success.

The background features a complex geometric pattern of overlapping triangles in various shades of blue and white. The triangles vary in size and orientation, creating a dynamic, crystalline effect. The colors range from light, airy blues to deeper, more saturated tones, with some areas appearing as pure white. The overall composition is abstract and modern.

Thank You