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An Autonomous Mess Management System

Rohit P. Dare^{*1}, Pruthviraj K. Jadhav^{*2}, Dhiraj S. Joshi^{*3}, Dhiraj V. Yemul^{*4}, Mr. A.R Khanvilker^{*5}

*1 Student, Computer Technology Department, Bharati Vidyapeeth's Jawaharlal Nehru Institute Of Technology, Pune, Maharashtra, India

*2 Student, Computer Technology Department, Bharati Vidyapeeth's Jawaharlal Nehru Institute Of Technology, Pune, Maharashtra, India

*3 Student, Computer Technology Department, Bharati Vidyapeeth's Jawaharlal Nehru Institute Of Technology, Pune, Maharashtra, India

*4 Student, Computer Technology Department, Bharati Vidyapeeth's Jawaharlal Nehru Institute Of Technology, Pune, Maharashtra, India

(Guide/Mentor, Department of Computer Technology, Bharati Vidyapeeth's Jawaharlal Nehru Institute Of Technology, Pune, Maharashtra, India)

ABSTRACT :

The MealsNow Website is a user-friendly platform designed to provide seamless access to daily meal menus for multiple messes. The website caters to two primary user groups: mess users who wish to view the latest meal offerings, and mess administrators who manage and update these menus on a daily basis. With an interactive design inspired by leading food platforms, the site allows users to search for specific messes, filter menus by meal type (lunch or dinner), and view detailed daily offerings.

For administrators, the platform offers a secure login system, enabling them to easily add new messes and update menus. This streamlined interface ensures efficient management, while the intuitive design provides a smooth user experience. The platform's backend, developed using PHP and Apache, can be further enhanced with database integration for scalable, long-term use.

The project aims to bridge the gap between mess management and user engagement, offering a modern solution for mess menu display and updates.

INTRODUCTION

MealsNow is a modern web platform designed to simplify the management and display of daily menus for multiple messes in institutions like universities, hostels, and corporate campuses. The website provides a centralized solution where users can easily access lunch and dinner menus, search for messes, and view meal options in real-time.

Built with HTML, CSS, and JavaScript on the frontend, MealsNow offers a responsive, user-friendly interface optimized for both mobile and desktop devices. The backend is powered by PHP and Apache, which handles secure admin access and enables the addition and update of mess information through a protected admin panel.

METHODOLOGY

- 1. Requirement Gathering and Analysis: Understand the target users, their needs, and the functionality required for the application.
- 2. System Design: Design the architecture of the system, including both the front-end and back-end components.
- 3. Development: Implement the design, write the code, and build the platform based on the requirements.
- 4. Testing: Ensure that the system works as expected and is free of major bugs or issues.
- 5. *Deployment*: Launch the **application** and make it **available for real-world users**.
- 6. *Maintenance and Updates*: Ensure the system remains functional, secure, and up-to-date.
- 7. Evaluation and Feedback: Evaluate the platform's performance and gather user feedback for future improvements.

Final Methodology Overview

- Agile Development: The methodology for MealsNow follows an Agile approach. Agile is suitable for this project.
- User-Centered Design: Throughout the process, the development team focuses on the needs and experiences of the end user.
- Test-Driven Development (TDD): Unit testing and integration testing will be a significant part of the development process.
- MealsNow project remains adaptive, responsive to user needs, and built using modern development practices.

MODELING AND ANALYSIS

Resources And Technology Used(Tools and Software):

- 1. **HTML:** HTML (Hyper Text Markup Language) is the standard language used to create and design web pages. It structures the content on the page, such as text, images, and links, using various elements and tags.
- 2. CSS:(Cascading Style Sheets) is used to style and layout web pages. It controls how HTML elements look, including their colors, fonts, spacing, and positioning.
- 3. BOOTSTRAP:Bootstrap is a framework that simplifies web development by providing predesigned, responsive components and styles.
- 4. JAVASCRIPT: JavaScript is a programming language that makes web pages interactive and dynamic.
- 5. MYSQL:

MySQL is an open-source relational database management system (RDBMS) that is widely used for storing, managing, and retrieving data efficiently.

6. **PHP(Hypertext Preprocessor):**

PHP is used for web development. It is embedded within HTML and executed on the server side, making it ideal for creating dynamic web pages and applications.

7. XAMPP:-

XAMPP is a free and open-source software stack that provides an easy way to set up a local web server for development.

WEBSITE DESIGN PROCESS OVERVIEW



Figure 1: Website Design Process Overview



Figure 2: Website Opening view

RESULTS AND DISCUSSION

In this research paper

- [1] Website Name: MealsNow
- [2] Game Genre:
- Registration and Login– Allows admins to login and update their password ease.
- Meal Browsing- Users able to browse a wide variety of meals, nutritional diets, etc.
- Customization-Users can customize meals basaed on their requirements.
- Performance:- Website performance optimize for long time loadings.
- [3] Platform: Supports any web browsers.
 - Images Related to Mealsnow:

A	Username:	
	Password:	Q. C. C.

Figure 1: Admin Login Page

		Back to Home
	Admin Dashboard	
Da	Manage Menus Add/Update Menu	106
	Select a Mess Wednesday	
	Lunch	
	Enter menu items (comma-separated)	
	Save Menu	
	Existing Menus	No and

Figure 2: Adding and updating menus according to admin requirement



Figure 3: Admin can select messes using location,day and meal type

Discussion Related To Mealsnow: This paper Providing a detailed description of the project's purpose, features, and target audience would help others understand its objectives and functionality. Including a comprehensive README file with installation instructions, usage guidelines, and contribution protocols would enhance accessibility for potential users and contributors. Clarifying the technologies and frameworks employed (e.g., PHP version, JavaScript libraries, database systems) would offer insights into the project's architecture.

CONCLUSION

The Mess Menu Management Website is a robust platform that allows efficient and user-friendly management of mess menus. By implementing a secure login system for administrators and an interactive interface for users, this project provides a practical solution for daily mess menu management. With planned future enhancements such as database integration and improved security, the system is well-positioned to scale and adapt to growing user needs.

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