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## MealCart: An Online Tiffin Delivery Platform Web-Based Solution for Home-Cooked Meal Delivery

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### ABSTRACT :

This research presents "MealCart," a digital platform connecting urban residents with fresh home-style meals. Built with PHP, MySQL, and XAMPP, the system manages the process from meal selection to delivery through three modules serving administrators, customers, and delivery personnel. This paper outlines MealCart's concept, implementation, testing, and potential enhancements.

### Introduction

MealCart transforms traditional tiffin services into a digital platform connecting customers with quality meals. Our solution replaces manual processes with online registration, digital menus, secure payments, and real-time tracking while automating business operations such as record-keeping and delivery management.

### Objectives

We developed MealCart with four goals:

1. Digitizing traditional tiffin services for better user experience
2. Automating data handling and order processing
3. Implementing real-time tracking and secure authentication
4. Creating a structured database for meal, user, and delivery management

### Methodology

MealCart uses PHP for backend programming and MySQL for database management with an HTML/CSS interface. The architecture includes three modules:

#### *Admin Module:*

- Customer account management
- Delivery personnel oversight
- Order monitoring
- Billing and payment tracking

#### *Customer Module:*

- Account management
- Meal browsing and ordering
- Secure payment processing
- Invoice generation
- Delivery tracking

#### *Service Personnel Module:*

- Delivery assignment information

- Status update tools
- Route guidance

The application was deployed using XAMPP and validated through black-box testing.

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## Results and Analysis

Testing confirmed that MealCart improved the tiffin ordering experience for all users. Customers appreciated online ordering convenience, administrators gained better operational oversight, and delivery staff benefited from improved logistics. The platform reduced errors, accelerated processing, and increased satisfaction while providing valuable data on customer preferences.

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## Future Scope

1. Additional payment methods integration (UPI, bank transfers)
2. Mobile application development
3. Advanced security implementation
4. AI-powered features (voice commands, chatbots)

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## Conclusion

MealCart successfully digitizes tiffin services with an efficient ecosystem featuring a clean interface, robust backend, and reliable data management. Its modular design supports future enhancements and scalability.

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