

Online Marketplace - Project Overview

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Subject: KIV/WEB

Application name: Online Marketplace

Technologies Used

Frontend:

- HTML
- CSS
- JavaScript

Backend:

- PHP

Database:

- MySQL

Application Directory Structure

```
application/  
  controllers/  
    // list of controllers  
  core/  
    // core php files  
  css/  
    // css style  
  includes/  
    // navbar  
  models/  
    // list of models  
  uploads/  
    // folder for uploaded files  
  views/  
    // list of views
```

Application Architecture

MVC Architecture:

Model:

- Manages data logic, database interaction, and overall application logic.
- Ensures secure data manipulation and interaction with the database.

View:

- Presents data to the user.
- Defines HTML structure, templates for product lists, order details, forms, etc.

Controller:

- Acts as an intermediary between Model and View.
- Identifies controller and action based on the URL.
- Triggers methods in the Model for data retrieval.
- Passes data to the View and invokes its rendering method.

EntryPoint: index.php - initializes and routes requests.

Implementation in the Context of an Online Marketplace

Model:

- Classes for user accounts, products, orders, etc.
- Ensures secure data manipulation and interaction with the database.

View:

- Defines HTML structure, templates for displaying data.
- Handles appearance and interactivity.

Controller:

- Identifies controller and action based on the URL.
- Triggers methods in the Model for data retrieval.
- Passes data to the View and invokes its rendering method.

Users Logins and Passwords:

- Buyer: cashtad@gmail.com - 123
- Seller: seller@test.com - 123
- Admin: admin@gmail.com - 123

Requirements for Running a Web Server

Compatible web server (Apache, Nginx)

PHP 7.0 or later with extensions (mysqli, pdo, openssl)

Supported relational database (MySQL, MariaDB)

Modern web browser

Deployment Instructions

- Clone the repository
- Set up the database
- Configure connection settings in config.php
- Adjust the web server to point to the application's root
- Access the application through the server's URL (e.g., http://localhost/*YOUR_PAGE*)
- Ensure proper permissions and test by opening the configured URL in a browser.

Conclusion

In conclusion, the application architecture demonstrates a well-structured MVC pattern, providing a clear separation of responsibilities. Each class and module serve specific purposes, facilitating code maintenance and future development. Controllers act as a bridge between the user interface and data model, while models handle data manipulation and storage. This architecture lays a solid foundation for building robust and scalable web applications, showcasing features of the modern MVC design pattern, enhancing testability, and ensuring a clear separation of concerns.