Vanier College Faculty of Science and Technology

TRANSACTIONAL WEB APPLICATIONS 420-951-VA sect. 01222

Final Report

ShopCeramics 2024/01/31

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Project Final Report

Introduction

The ShopCeramics application is a comprehensive e-commerce web application tailored for the sale of ceramic articles. It offers a seamless integration of product management and showcase, user authentication, shopping cart functionality, and payment processing within a single platform. This application enhances the operational efficiency of e-commerce businesses and enriches the shopping experience for customers.

Version

1.0

Functional Requirements

- Upon successful user registration, the system shall send a confirmation message indicating that registration was successful, allowing the user to log in.
- After a successful login, username shall be displayed, and use can access to his/her account/shopping cart.
- In case of an unsuccessful login attempt, the system shall provide a helpful error message to guide the user.
- Access to the admin portal will be restricted and protected for users who are not in admin group.
- Logged in users can perform add/remove products to their shopping cart, make payment, check their order records.
- The order confirmation page shall show the order number, total amount paid information.

Non-Functional Requirements

- Performance: The system should respond to user actions, such as registration, login, and page loading, within 2 seconds to ensure a responsive user experience.
- Security: User data, including registration information, shopping cart details, and order records, must be stored and transmitted securely, following industry-standard encryption practices.

- Reliability: The system should have an uptime of at least 99% to ensure it is accessible to
 users consistently. It should also have a backup and recovery mechanism in place to
 prevent data loss in case of unexpected system failures.
- Usability: The user interface should be intuitive and user-friendly, ensuring that users can
 easily navigate through the registration process, login, and agenda management. The
 dressing suggestions on the weather page should be presented in a clear and
 understandable manner.
- Accessibility: The application should be designed to be accessible to users with disabilities, following accessibility standards to accommodate a diverse user base.
- Scalability: The system should be able to handle a growing number of users without a significant degradation in performance, ensuring that it can accommodate an increasing user base over time.
- Data Privacy: The system must comply with data privacy regulations and provide users with the option to manage their data, including deleting their accounts and personal information.
- Error Handling: The system should have robust error handling and provide informative error messages to guide users when they encounter issues during registration, login, or agenda management.

User Stories

Title: Registration

User Story

As a User,

I want to register an account.

So that I can login to the application.

Acceptance Criteria

Scenario: User input username, email address and password.

Given: The application is running

Then: The user should be registered successfully if all information needed is correctly

provided.

Scenario: User provides incorrect information like a week password.

Given: The application is running

Then: The system will display "please provide a stronger password"

Title: Logging in

User Story

As a User,

I want to log in to the application.

So that I can check my local weather information and get suggestion on how I should dress up. I also want to integrate my agenda on the same app, so I don't need check several places for different stuff.

Acceptance Criteria

Scenario: User successfully logs into the application

Given: The application is running

When: The user enters valid credentials (username & password) or has a valid google

account.

Then: The user should be logged in successfully

Scenario: User enters invalid credentials

Given: The application is running

When: The user enters invalid credentials

Then: The user should not be logged in and should see an error message

Title: Check products

User Story

As a User,

I want to browser the products and their detailed information in order to decide which ones I would like to buy.

Acceptance Criteria

Scenario: User checks products details. Given: The user is bowering the web page When: The user navigates to product page

Then: The user will see all products of 3 categories.

Title: Add products to shopping cart

User Story

As a User,

I want to add products to my shopping cart.

So that I can process payment later.

Acceptance Criteria

Scenario: User are interested in products from the websites

Given: The user is logged in

When: The user navigates to product page

Then: The user will click add to add products in his/her shopping cart

Then: The user will check his/her shipping cart

Title: Update products quantities in the shopping cart

As a User,

I want to add more or remove products from my shopping cart.

So that I can process order later.

Acceptance Criteria

Scenario: User is checking his/her shopping cart

Given: The user has already added products in the shopping cart

When: The user navigates to shopping cart page

Then: The user will change the quantities of products in his/her shopping cart

Then: The user will process to checkout

Title: Check out for an order

As a User,

I want to check out my orders.

So that I can make payment for this order.

Acceptance Criteria

Scenario: User confirmed the products and their quantities in the shopping cart.

Given: The user has already updated the products quantities, or the user does not need to

update anything in the shopping cart.

When: The user navigates to shopping cart page

Then: The user will click checkout button.
Then: The user will fill the delivery information.

Title: Make payment

As a User,

I want to pay for my order.

So that I can wait for the delivery.

Acceptance Criteria

Scenario: The user fill his/her card detailed information.

Given: User filled the delivery form

When: The user navigates to payment page

Then: The user will click pay button

Then: The user will see an order confirmation page.

Contributions:

Team member: Li Fan 2395027 (33.3%)

Shaojun Jiang 2395049 (33.3%)

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Task Team member	Design	Activity Flow	Database /API	Frontend- react	Authentication	Internationalization and localization	Deploy	Test Cases	CI/CD	Doc/Re port
Li Fan		$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$				$\sqrt{}$	$\sqrt{}$
Shaojun Jiang	√	√	V	V	V		V			
Le Le Wei	V	V		$\sqrt{}$		$\sqrt{}$		$\sqrt{}$		$\sqrt{}$