



CSE311 Project Proposal

E-commerce Web App ShopEZ

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Introduction

This is a proposal of development of a website for a E-Commerce Web App named ShopEZ. This document contains overall description, requirements, project vision and user stories. This document will remain as a living document to be shared online collaboration to undergo phase wise changes as the product i.e. the website matures into a value-generating platform.

Overall Description

Project Functionalities:

- User can signup/login.
- User can add products according to their category.
- User can update product price, quantity and details.
- User can add offers to products.
- User can search by product ID or category.
- User can scroll easily to see products.
- User can order from the website.
- User can report a product.
- User can confirm a order for processing.

User Classes and Characteristics:

There will be three types of user:

- Admin
 - Admin have the ability to delete any customer/seller account.
 - Admin can also delete certain products if too much negative report arises.
 - Once a customer places an order, Admin will process the order to warehouse for delivery.
- Seller:
 - Seller can add products.
 - Seller can update product information.
 - Seller can add offers.
- Customer:
 - Customer can search for products.
 - Customer can order products.
 - Customer can report products.

User Story

User Story 1:

As an Admin/Seller/Customer

- I want to create a user account on the site.
- So that I can log in into the website with my user credentials.

Extended Use Case:

Name:	Signup
Description:	User have to signup for the very first time before login
Actors:	Admin, Seller and Customer
Type:	Primary
Preconditions:	Null
<u>Main Flow:</u> 1. Go to website. 2. Click on Login button. 3. In login page click on Signup button. 4. System will take user to signup page.	
<u>Alternative Flows:</u> 1. If user not fill form correctly, prompt error messages. 2. If user enter an username already existing on database,prompt appropriate message.	

User Story 2:

As an Admin/Seller/Customer

- I want to login into the website.
- So that I can use further functionalities of the website.

Extended Use Case:

Name:	Login
Description:	-Admin have to login before add, remove or update. -Seller have to login before adding any product under his ID -Customer must have to login before ordering any product.
Actors:	Admin, Seller and Customer
Type:	Primary
Preconditions:	Signup
<u>Main Flow:</u> 1. Go to website. 2. Click on Login button. 3. In login page enter credentials and hit login. 4. System will take user to home page.	
<u>Alternative Flows:</u> 1.If user password not match, show 'Wrong Password' message and redirect to login page again. 2. If username not found in database, show 'User not found,Please signup' message and redirect to login page again.	

User Story 3:

As an Admin

- I want to be able to see all other type of users.
- So that I can delete users that violate certain rules.

Extended Use Case:

Name:	Delete Users
Description:	Admin can check all the Sellers and Customers and can delete that account if any problem arises.
Actors:	Admin
Type:	Primary
Preconditions:	Login
<u>Main Flow:</u> [Login use case] 5. Selects a User that Admin wants to delete. 6. Click on Delete. 7. System will prompt Admin to enter password. 8. If password is correct, system will remove the user.	
<u>Alternative Flows:</u> 1. If user password is wrong, system will prompt wrong password message.	

User Story 4:

As an Admin

- I want to be able to see all products and their reports.
- So that I can delete products.

Extended Use Case:

Name:	Delete Products
Description:	Admin can check all the Products and their issued reports. They can delete the product if they want.
Actors:	Admin
Type:	Primary
Preconditions:	Login
<u>Main Flow:</u> [Login use case] 5. Selects a Product that Admin wants to delete. 6. Click on Delete. 7. System will prompt Admin to enter password. 8. If password is correct, system removes the product.	
<u>Alternative Flows:</u> 1. If user password is wrong, system will prompt wrong password message.	

User Story 5:

As an Admin

- I want to be able to check order requests (cart).
- So that I confirm the order and process that to warehouse.

Extended Use Case:

Name:	Process Orders
Description:	Admin can check all the Order requests (cart) and confirm the orders to the warehouse for delivery.
Actors:	Admin
Type:	Primary
Preconditions:	Login
<u>Main Flow:</u> [Login use case] 5. Selects a Order Request. 6. Confirms it	
<u>Alternative Flows:</u> 1. If the product is not available anymore, system will prompt an error message	

User Story 6:

As a Seller

- I want to add Product.
- So that I can add different type of products with their price and information.

Extended Use Case:

Name:	Add new Product
Description:	User can add new product according to their category
Actors:	Seller
Type:	Primary
Preconditions:	Login
<u>Main Flow:</u> [Login use case] 5. Click on add new product button. 6. Fill up necessary information and hit add.	
<u>Alternative Flows:</u> 1. If any info invalid, system prompts error message.	

User Story 7:

As a Seller

- I want to update product info.
- So that I can adjust price or description of product.

Extended Use Case:

Name:	Update a product
Description:	User can select a product that is theirs and update them accordingly.
Actors:	Seller
Type:	Primary
Preconditions:	Login
<u>Main Flow:</u> [Login use case] 5. Click on a product and select Edit button. 6. Fill up necessary information and hit Update.	
<u>Alternative Flows:</u> 1. If any info invalid, system prompts error message.	

User Story 8:

As a Seller

- I want to add an offer.
- So that product sale increases.

Extended Use Case:

Name:	Add an offer
Description:	User can select a product that is theirs and add an offer to that product.
Actors:	Seller
Type:	Primary
Preconditions:	Login
<u>Main Flow:</u> [Login use case] 5. Click on a product and select Add Offer button. 6. Fill up necessary information and hit Done.	
<u>Alternative Flows:</u> 1. If any info invalid, system prompts error message.	

User Story 9:

As an Admin/Seller/Customer

- I want to search a product.
- So that I can find that product easily on the website.

Extended Use Case:

Name:	Search a Product
Description:	User can search for a product.
Actors:	Admin and Sellers and Customers
Type:	Secondary
Preconditions:	Null
Main Flow: 1. Go to website. 2. Click on search bar.	

User Story 10:

As a Customer

- I want to add products on cart.
- So that I can add multiple products on cart and proceed order.

Extended Use Case:

Name:	Add product on cart
Description:	User can add multiple products on cart for order.
Actors:	Customers

Type:	Primary
Preconditions:	Login
<p style="text-align: center;"><u>Main Flow:</u></p> <p style="text-align: center;">[Login use case]</p> <p style="text-align: center;">5. Click on any product option button.</p> <p style="text-align: center;">6. Select Add to cart.</p> <p style="text-align: center;">6. System will add the product to the cart.</p>	
<p style="text-align: center;"><u>Alternative Flows:</u></p> <p style="text-align: center;">1. If any product is not available, prompt appropriate message.</p>	

User Story 11:

As a Customer

- I want to report a product.
- So that I can share my opinions about it.

Extended Use Case:

Name:	Report a product
Description:	User can report a product if they have any issues with it.
Actors:	Customers
Type:	Primary
Preconditions:	Login

Main Flow:

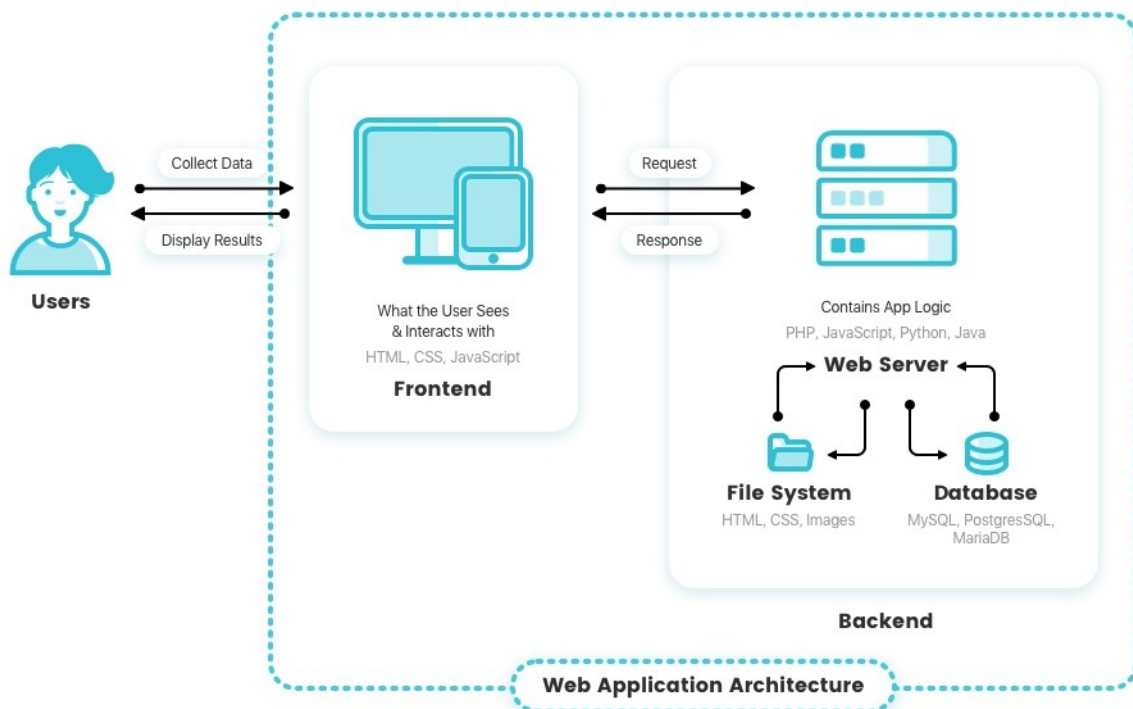
[Login use case]

5. Click on any product option button.
6. Select Report.
7. Add a short comment with the report and select Done.
8. System will send the report to the Admin.

Alternative Flows:

1. If comment is empty, prompt appropriate message

Solution Description



Architecture

Html, CSS, JavaScript, Bootstrap and ReactJS will be use for the website front end whereas , NodeJS, ExpressJS and MySQL will be use on backend with hosting in local server by XAMPP module.



Front-end

1. Search option and overview on Home Page.
2. Product Details Page for specific products.
3. Categorical products page.
4. User registration/ login page.
5. Cart/order detail page.
6. About page.

7. Admin and Seller portals.

Back-end

1. Account deployment:

- (a) Sign up form.
- (b) Login.
- (c) Forgot Password.
- (d) MYSQL Database.

2. User management:

- (a) MYSQL stores all User Data.
- (b) User profile.

3. Searching Facility:

- (a) Categorically search.
- (b) Price and quantity based search.
- (c) General Search.

4. Ordering facility:

- (a) Add Product on Cart.
- (b) order and quantity/availability.
- (c) Sending data to mysql to store for admin to confirm later.