

**Project Documentation**

**Project Name: E-Commerce – Group A**

**Team Members:**

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| هاجر مجدي منير | [hager9671@gmail.com](mailto:hager9671@gmail.com) |
| رقيه أحمد محمد | [roqiabazah2005@gmail.com](mailto:roqiabazah2005@gmail.com) |
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**Introduction**

This document outlines the initial planning and execution strategy for the development of our e-commerce web application using Html, CSS, JS, Bootstrap and Angular Framework.

The project aims to deliver a modern, user-friendly platform where customers can browse, search, and purchase products online. and will feature essential components such as a product listing page, a shopping cart, and a seamless checkout process, ensuring an intuitive shopping experience across various device.

By leveraging technologies like Angular, Bootstrap, HTML, CSS, and JavaScript, we aim to create a responsive and visually appealing interface. This document covers the tools and technologies used, the division of tasks among team members, Analysis of website components and the timeline for completing each phase of the project. The structured approach will ensure smooth progress and successful project delivery, meeting both user expectations and technical standards

**General Overview**

**: This section will explain the overall goal of the e-commerce website project**

**Objective**: Develop a web-based e-commerce platform featuring product listings, a shopping cart, and a checkout process

**User Experience**: The website is responsive, mobile-friendly, and provide a smooth user experience across different devices

**Target Audience**: Users looking to browse, select, and people who are interested in buying products online.

**Key Features and web site components:**

Sign-in/Log-in functionality for user authentication.

Homepage with product listings.

Navbar and search bar

Shopping cart.

Checkout process for purchasing items.

Contact page for user inquiries.

**Tools and Technologies**

**Languages**: HTML, CSS, JavaScript, TypeScript

**Framework**: Angular

**Styling Framework**: Bootstrap (for responsive design)

**Tools**:

Angular CLI for managing the Angular environment

Node.js and NPM for managing packages

Visual Studio Code for development

**Resources:**

Freepik website for high quality photos

**Extensions**:

Angular-specific extensions in VS Code

Bootstrap or Angular Material libraries

**Other Tools**:

Adobe XD for UX/UI design mockups

**Project Timeline**

**Week 1:**

Install Angular and configure the development environment

Prepare UI/UX Design

Develop the basic layout for the home and product listing pages using HTML, CSS, and Bootstrap

Ensure the initial layout is responsive and works across mobile, tablet, and desktop views

**Week 2:**

Develop Product Listings Page

Implement Shopping Cart Functionality

**Week 3:**

Develop Checkout Process including Payment Integration

**Week 4:**

Ensure Security and Optimization and Final Testing

**Home Page Breakdown**

In this page we created nav bar component and home page component which displays product listings, offer slider and categories slider.

For navbar, we used Bootstrap for most of responsive essential features and styling,

Also bootstrap made using togglers buttons easier as we only linked the needed script files for it without the need of writing any java script codes , and used css for to add more specific fonts and hovers.

For product listing we used Bootstrap mainly as it provides built in classes for carts where we display each product information and details, and used css for more specific margins and paddings of some items, first I made a model for each product to define its id , image , name , description and other features, then I made a database file to store each product information including their images and descriptions.

And for the rest of the homepage components I made a slider for quick offers that the user will see before reaching products, and this slider was made using bootstrap mainly without any need to write js codes or even css codes for it , just added the pictures from the assets file that I made to store images in it so every folder and every file has only one responsibility

**Contact-us Breakdown**

Responsive Design

- To ensure the page looks good on all devices (desktops, tablets, and smartphones) , Media Queries were used to adjust the layout based on the screen size:

- For screens narrower than 768px (like tablets) , padding, font sizes, and spacing are reduced to better fit smaller screens.

- For screens narrower than 480px (like smartphones) , padding and font sizes are further reduced to ensure the form remains legible and easy to use

**Shopping cart Breakdown & Checkout Breakdown**

**Overview**

The checkout page allows users to review their shopping cart and complete their purchase by entering payment details. This page contains two main sections: the **Shopping Cart** and the **Payment Section**.

**Sections**

**1. Shopping Cart**

This section lists the items the user has added to their cart and provides a summary of the total cost.

* **Items Displayed:**
  + Each item in the cart is displayed with the following information:
    - **Item Name**: The name of the product (e.g., Casual Denim Jacket).
    - **Quantity**: Number of units for each product. Defaults to 1.
    - **Price**: Price of the product (e.g., $29.99).
    - **Category**: The product category (e.g., Suits, Accessories).
    - **Remove Option**: Each product has a trash can icon that allows users to remove the item from the cart.
* **Cost Breakdown:**
  + **Subtotal**: Displays the total cost of all the items before shipping and taxes.
  + **Shipping**: Displays the shipping cost.
  + **Total (Incl. taxes)**: The total amount, which includes the cost of items, shipping, and any applicable taxes.

**2. Payment Section**

This section allows users to input their payment details and complete the purchase.

* **Card Type**: The user selects a card type from the available options:
  + Visa
  + MasterCard
  + American Express
  + PayPal
* **Input Fields**:
  + **Name**: The name of the cardholder.
  + **Card Number**: The 16-digit card number.
  + **Expiration Date**: The expiration date of the card (MM/YY format).
  + **CVV**: The Card Verification Value (a 3-digit security code found on the back of the card).
* **Checkout Button**: Displays the total amount and directs the user to the next step in the purchase process upon clicking.

**Process Flow**

1. **Review Cart**: Users can review the items in their cart. If they need to modify the cart (e.g., remove items), they can do so by clicking the trash can icon.
2. **Enter Payment Information**: Users enter their card details to complete the transaction.
3. **Checkout**: After ensuring all information is correct, the user clicks the **Checkout** button to finalize the purchase.

Tree Source

**ECommerce-DEPI-main/**

**ECommerce-DEPI-main/**

**.editorconfig**

**.gitignore**

**README.md**

**angular.json**

**package-lock.json**

**package.json**

**tsconfig.app.json**

**tsconfig.json**

**tsconfig.spec.json**

**.vscode/**

**extensions.json**

**launch.json**

**tasks.json**

**public/**

**favicon.ico**

**src/**

**index.html**

**main.ts**

**styles.css**

**app/**

**app.component.css**

**app.component.html**

**app.component.spec.ts**

**app.component.ts**

**app.config.ts**

**app.routes.ts**

**components/**

**checkout/**

**checkout.component.css**

**checkout.component.html**

**checkout.component.spec.ts**

**checkout.component.ts**

**navbar/**

**navbar.component.css**

**navbar.component.html**

**navbar.component.spec.ts**

**navbar.component.ts**

**product-card/**

**product-card.component.css**

**product-card.component.html**

**product-card.component.spec.ts**

**product-card.component.ts**

**shopping-cart/**

**shopping-cart.component.css**

**shopping-cart.component.html**

**shopping-cart.component.spec.ts**

**shopping-cart.component.ts**

**database/**

**card.ts**

**product.ts**

**models/**

**card.model.ts**

**product.model.ts**

**pages/**

**contact-us/**

**contact-us.component.css**

**contact-us.component.html**

**contact-us.component.spec.ts**

**contact-us.component.ts**

**footer/**

**footer.component.css**

**footer.component.html**

**footer.component.spec.ts**

**footer.component.ts**

**homepage/**

**homepage.component.css**

**homepage.component.html**

**homepage.component.spec.ts**

**homepage.component.ts**

**login/**

**login.component.css**

**login.component.html**

**login.component.spec.ts**

**login.component.ts**

**signup/**

**signup.component.css**

**signup.component.html**

**signup.component.spec.ts**

**signup.component.ts**

**services/**

**card-product.service.spec.ts**

**card-product.service.ts**

**user/**

**user.component.css**

**user.component.html**

**user.component.spec.ts**

**user.component.ts**

**users.ts**

**assets/**

**images/**

**1\_slider.avif**

**2\_Slider.avif**

**3\_slider.avif**

**pro\_1.avif**

**pro\_10.avif**

**pro\_2.avif**

**pro\_3.jpg**

**pro\_4.avif**

**pro\_5.avif**

**pro\_6.avif**

**pro\_7.jpg**

**pro\_8.avif**

**pro\_9.jpg**

**woman.jpg**

**Team Members Responsibilities**

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| مريم مطراوي احمد علي | Homepage and product listings |
| ماريا الفونس كامل | Shopping cart |
| ندى احمد فاروق | Check Out (Payment Process) |
| هاجر مجدي منير | Checkout process |
| رقيه أحمد محمد | Navbar and search bar |
| كلارا ايهاب ماهر | Sign Up/ Log In Page |
| نورهان جمال عبد المعبود | Contact Page |