

Nottingham Trent University

Department of Computer Science

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SOFT20181- Internet Applications Programming

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SOFT20181
Internet Applications Programming
Report
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How the user-interface and entire design follow best practice for E-commerce systems.

Homepage

- clear links in a well-organized navigation bar for user-friendly access.
- Brand recognition and identity are provided by the logo image.
- Utilising the section> element to organise content on the page effectively.
- Toggleable navigation for mobile design using JavaScript that increases user freedom.
- proper semantic HTML element use for improved search engine optimisation (SEO) and accessibility.

Skincare and Makeup Pages:

- division (div) containers are used to group content.
- For content hierarchy, there is a clear use of the paragraph (p) and header (h1 and h2) tags.
- combining animated graphics with videos to create visually appealing material.
- CSS transitions are used well for fluid animations.
- using setInterval() and clearInterval() to construct interactive elements with JavaScript, such as picture enlargements.

Services Page:

- presentation of services with specificity utilising service cards.
- CSS media queries are used to create responsive designs that can adjust to different screen sizes.
- Design modifications that take screen width into account to improve user experience on desktop and mobile devices.

Registration Page:

- design of a user-friendly registration form to collect user information.
- data accuracy is increased by email address input validation utilising the HTML pattern attribute.
- Pay close attention to the name input type, which only accepts letters and spaces.
- best practises are put into action to handle user data securely and privately.

Integration and Interaction:

The integration of products.cshtml with admin.cshtml contributes to the holistic operation of the E-commerce application:

- products.cshtml presents product information to customers, facilitating their browsing and purchasing decisions.
- admin.cshtml enables authorized personnel to add, edit, and update product details to maintain an accurate and comprehensive product catalog.
- The two pages are interconnected through their shared usage of the Products model and the Razor Pages framework.
- Product additions and updates made in the admin.cshtml page will be reflected in the displayed information on the products.cshtml page, ensuring consistency between the back-end administration and the front-end customer experience.

Overall Implementation and features

Product Details Adding on the Admin Page (admin.cshtml):

- A user-friendly form on the admin.cshtml page enables authorised administrators to enter information about a product, including its ID, name, description, price, and image source.
- The information is delivered to a server-side action (for example, OnPostForm handler) in the relevant Razor Page model (adminModel) when an administrator submits the form by clicking the "Save" button. The submitted data will be processed as a result of this action.
- The received product information are typically verified and added to the database using an Entity Framework DbContext (or another data access method) in the OnPostForm action. This makes sure that the database of the application contains persistent storage for the new product information.

The customer-facing page where product details are displayed is the products.cshtml page.

- A database query is used to retrieve the product information from the database inside the Razor Page model (ProductsModel) linked to this page. Typically, this query interacts with the database and retrieves the pertinent data using an Entity Framework DbContext.
- The retrieved product details are stored in the Model.Products collection.
- The foreach loop in the products.cshtml page iterates over each product in Model.Products and displays its details, including ID, name, image, description, and price, within a structured HTML layout.

Search for Products:

- Customers can rapidly locate particular products using the search functionality by entering pertinent keywords or product names in the available search box.
- The user's search input can be gathered and a search query can be started using JavaScript.
- The application may employ a server-side procedure after receiving the search query to fetch pertinent products from the database in accordance with the search criteria.
- The search results can then be shown on the same basket.cshtml page or forwarded to a specific page with products that are relevant to the customer's search, as shown.

Registration Page

- Users must give accurate and comprehensive information on the registration form in order to create an account. You can enforce particular data forms, such as a valid email address or a name that only contains letters and spaces, by setting the pattern attribute. Users cannot submit the form without filling out the needed fields thanks to the mandatory attribute.
- You may design a user-friendly and effective registration form that directs people to provide accurate and legitimate information when creating an account on your e-commerce website by utilising certain input types, properties, and patterns.

About us Page

The provided footer code creates a well-organized and informative footer section for the website, including an “About Us”, quick links and design attribution. This section contributes to a positive user experience and provides essential details for visitors interested in learning more about the company.