**Project Report**

**Introduction**

The goal of this project is to create a responsive e-commerce website for the association called EDURESE. The website will work well on all devices.

The project also aims to make the website more detailed and functional. It will have easy navigation, better features for shopping, and tools for admins to manage the site. This will help users have a better experience and make the website look professional.

This project will help the association reach more people and improve its online presence.

**Design Process**

**Figma Link:** <https://www.figma.com/design/wDYOPqYW4FfmTkT3uJtTB8/Untitled?node-id=0-1&p=f&m=dev>

**Technologies Used**

**1.HTML**

Semantic Elements: HTML5 semantic tags such as <header>, <main>, <section>, and <footer> were usedÇ

Form Elements: HTML form elements like <form>, <input> and <button> were used to collect information from users.

Links: Navigation within the page was created using <a> tags to form links.

Media Elements: The <img> and <video> tags were used.

Lists: Lists were created using <ul>, <ol>, and <li> .

**2.CSS**

Background-color: Background colors were set to distinguish the page background and sections visually.

Font-family: The 'Roboto' font from Google Fonts was used to define the page's typography.

Border & Border-radius: The border and border-radius properties were used to create borders between elements and round the corners.

Text-align: The text-align property was applied to center headings and some text.

Box-shadow: Shadow effects were added to elements to create depth and provide an aesthetic look.

Hover Effects: Hover effects were applied to buttons and interactive elements to increase user engagement.

Media Queries: Media queries were used to make adjustments based on screen sizes, ensuring the page works well on mobile devices.

**3. JavaScript**

DOM : JavaScript was used to dynamically change and update the HTML elements on the page.

Event Handling: The addEventListener method was used to manage user interactions, such as button clicks and form submissions.

Form Validation: JavaScript was used to perform form validation checks to verify the accuracy of the data entered by the user.

LocalStorage & SessionStorage: The localStorage and sessionStorage features were used to store user data in the browser and retrieve it when needed.

**Functionality**

User Login and Registration: Users can create accounts, log in, and manage their profiles.

Product Browsing: Users can search for products, filter by category, and view details like images, descriptions, and prices.

Shopping Cart: Users can add products to the cart, view their selections, and proceed to checkout to make a purchase.

Responsive Design: The website works well on computers.

Interactive Elements: Buttons and links change when clicked or hovered over, providing feedback and improving navigation.

Form Validation: Forms on the website, like contact and order forms, check that the information entered by users is correct before they submit it.

User Data Storage: LocalStorage and SessionStorage store data like cart items and preferences, so users can continue where they left off.

**Challenges & Solutions**

The main challenge was to create a clear, user-friendly design and ensure the page was well-organized and responsive on different devices. To solve this, Figma was used for designing. It allowed easy prototyping and collaboration, helping to create a good layout focused on user experience. Figma helped the team visualize the design and organize elements before coding.

Another main challenges was designing a clear and responsive page structure. To solve this, ResponsiveWebDesingCheckher was used to create prototypes and collaborate on the design, ensuring an effective layout before development.

**Conclusion**

In conclusion, this project focused on designing and developing a responsive e-commerce website for the EDURESE association. The primary goal was to create a user-friendly, functional platform that works on a computer and provides engaging experience for users.

Throughout the project, we learned valuable skills in web design, including using Figma for prototyping and ensuring responsive design. We also gained experience in front-end development, working with HTML, CSS, and JavaScript to implement interactive features.

Overall, this project was a significant learning opportunity, and it provided hands-on experience in creating a professional website with modern design and functionality.

**Proper use of HTML, CSS, and JavaScript**

**HTML**

HTML was used to build the basic structure of the website. Semantic tags like <header>, <footer>, <section>, and <article> were used to organize the content and make the website easier to understand and navigate.

**CSS**

CSS was used to style the website and make it look visually appealing. Responsive design was used with media queries, so the website works well on computer. CSS also added styles to buttons and links, including hover effects to improve user interaction.

**JavaScript**

JavaScript added interactivity to the website. It was used to update the content dynamically, respond to user actions (like clicks and form submissions), and check that forms were filled out correctly. JavaScript also used LocalStorage and SessionStorage to store user data and preferences, allowing a more personalized experience.