

**DUBLIN CITY UNIVERSITY**

**SCHOOL OF ELECTRONIC ENGINEERING**

 EEN1037 Web Application Development

Assignment 1

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**AutoGadget Hub - Web Application Briefing Document**

**Overview:**  
AutoGadget Hub is an e-shop platform designed to provide customers with a seamless shopping experience for car accessories, electronic devices, and related products. The website features a user-friendly interface, secure checkout, and multiple payment options to enhance customer convenience.

**Key Features:**

* **Homepage:** Provides an introduction to the platform with easy navigation to different sections.
* **Shop Page:** Categorized product listings for car accessories and electronic gadgets.
* **Shopping Cart:** Allows users to view and manage selected items before proceeding to checkout.
* **Checkout Page:** Secure form for entering shipping and payment details, with options like credit/debit cards and PayPal.
* **User Authentication:** Sign-up and sign-in options for personalized shopping and order tracking.
* **Contact Page:** Provides a form for inquiries and customer support details.
* **Help Center:** Answers common customer questions and provides guidance on using the platform.
* **Responsive Design:** Ensures accessibility across desktop, tablet, and mobile devices.

**Code Implementation Details:**

* **HTML & HTML5 Usage:** The website is built using structured HTML5 elements, ensuring semantic correctness and accessibility.
* **CSS Styling:** The layout and design are managed through multiple CSS files to maintain separation of concerns and enhance maintainability.
* **Navigation Design:** The header contains a fixed navigation menu with links to all major pages, including a help section with an icon next to the shopping cart.
* **Content Organization:** The project adheres to a structured directory format:
  + index.html as the main entry point.
  + shop.html, about.html, contact.html, help.html for different sections.
  + A css/ folder for stylesheets (main\_style.css, header\_mainBody.css).
  + An images and icons/ folder for all images and icons.
* **Relative Paths:** All internal links and media sources use relative paths to prevent broken links when moved to different machines.
* **Commenting in Code:** The HTML and CSS files include comments explaining each section and styling rule to demonstrate understanding.

**How It Works:**

1. Users sign up or log in to access personalized features.
2. Customers browse products and add them to their cart.
3. At checkout, they enter shipping details and select a payment method.
4. The order is processed, and a confirmation is sent to the user.

**Technology Stack:**

* **Frontend:** HTML, CSS (with external stylesheets for styling)
* **No JavaScript or Advanced Features:** As per assignment requirements, no JavaScript or other advanced web techniques are used.
* **Payment Integration:** Placeholder for PayPal and credit/debit card options (without functionality as required).

**Future Enhancements:**

* Implementing JavaScript for dynamic cart updates (in future assignments).
* Adding backend functionality for order management and user accounts.
* Enhancing security features and integrating real-time order tracking.

**Conclusion:**  
AutoGadget Hub aims to deliver a smooth and efficient online shopping experience, catering to customers looking for high-quality car accessories and electronic gadgets. The current implementation serves as a foundation for further development and expansion while adhering to the assignment requirements of using only HTML and CSS.