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.

Main Features:

- **Homepage:** Provides an introduction to the platform with easy navigation to different sections.
- **Shop Page:** Categorised product listings for car accessories and electronic gadgets.
- **Shopping Cart:** Allows users to view and manage selected items before proceeding to checkout (only an example is provided once Java script is added this will be updated).
- **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 personalised shopping recommendations and order tracking.
- **Contact Page:** Provides a form for inquiries and customer support details.
- **Help Centre:** 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 HTML/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.
- **Content Organisation:** The project adheres to a structured directory format:
    - index.html as the main entry point.
    - shop.html, about.html, contact.html, help.html, cart.html, signin.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.

How It Works:

1. Users sign up or log in to access personalised 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.

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 devices. The current implementation serves as a foundation for further development and expansion while following to the assignment requirements of using only HTML and CSS.