1. WEBSITE DETAILS

- **Title of the Website:** Semantic and Multimedia Webpage Using HTML5 (Automotive Electronics Focus)
- **Purpose of the Website:** To demonstrate the implementation of HTML5 semantic elements, logical document structure, and the integration of multimedia (audio/video) to create an accessible, SEO-friendly web presence.
- **Target Users:** Students, Beginners in Web Development, and Educational Institutions.
- **Tools Used:** * **Languages:** HTML5
  - **Text Editor:** VS Code
  - **Web Browser:** Chrome / Edge / Firefox
- **Key Features:** * Use of semantic tags for clear content hierarchy.
  - Structured navigation for various automotive categories (GPS, Dash-cams, RV, etc.).
  - Embedded multimedia with native browser controls.
  - SEO-optimized file naming and structure.

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2. TAG DEFINITIONS USED IN THE WEBPAGE

2.1 Basic Structure Tags

Tag	Definition
<!DOCTYPE html>	Defines the document type and HTML version (HTML5).
<html>	The root element that wraps all content on the entire page.
<head>	Contains meta-information, titles, and links to scripts/stylesheets.
<body>	Contains the visible content of the webpage (text, images, links).

2.2 Semantic Tags

Tag	Definition
<header>	Defines a container for introductory content or a set of navigational links.
<nav>	Defines a set of navigation links for site-wide movement.
<main>	Specifies the main content of the document; unique to the page.
<section>	Defines a logical grouping of content, typically with a heading.
<article>	Represents a self-contained composition (e.g., a product description).
<footer>	Defines a footer for a document or section, containing copyright or contact info.

2.3 Multimedia Tags

Tag	Definition
<audio>	Used to embed sound content, such as music or narrations.
<video>	Used to embed video segments or movie streams.
<source>	Specifies multiple media resources for <audio> and <video> elements.

`<track>`	Used to specify timed text tracks (captions/subtitles) for media players.

3. SCREENSHOTS & PROJECT ARCHITECTURE

3.1 Project File Structure

As shown in the development environment, the project is organized into a modular structure under the automotive directory:

- **Navigation Pages:** compare.html, maps.html
- **Product Categories:** dash-cameras.html, car-gps.html, motorcycle.html, trucking.html
- **Accessories:** mounts.html, backup-cameras.html

  Note to Student: Insert the screenshot you provided here to show your file tree in VS Code.

3.2 Output Screenshots

(Place your browser screenshots here according to the labels below)

1. **Full Webpage View:** Showing the overall layout of the automotive homepage.
2. **Navigation Section:** Demonstrating the links to the various .html files seen in your folder.
3. **Multimedia Section:** Showing the `<video>` player used for a product demo (e.g., Dash-cam footage).

4. DECLARATION

I hereby declare that this practical work entitled **"Design and Development of a Semantic and Multimedia Webpage Using HTML5"** is my original work carried out by me. This work has not been copied from any source and has not been submitted earlier for any examination.

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