

Day 4 - Dynamic Frontend Components

Media Mart Functional Deliverables

1. Product Listing Page with Dynamic Data

- **Description:** The product listing page dynamically displays products using a manually exported JSON dataset. Each product includes its image, name, price, and a brief description, presented in a clean and visually appealing layout to enhance user experience.

2. Individual Product Detail Pages with Accurate Routing and Data Rendering

- **Description:** Each product detail page dynamically renders detailed information for the selected product, including the title, full description, price, and related images. Leveraging accurate dynamic routing ensures users are directed seamlessly to the correct product page based on their selection.

3. Working Category Filters, and Search Bar

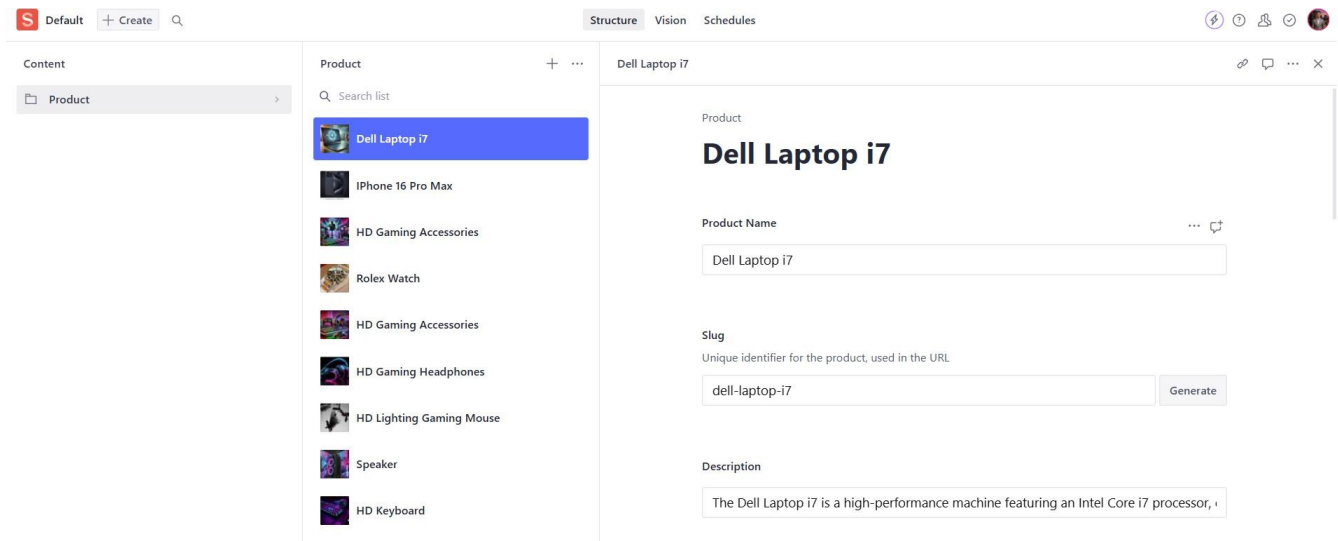
➤ **Screenshots/Recordings:**

- Demonstration of category filters.
- Search bar in action.

- **Description:**


- Category Filters: Enables filtering of products based on categories like "Electronics," "Home Appliances," etc., allowing users to narrow down their preferences.
- Search Bar: Offers real-time search functionality, dynamically filtering products as users type keywords.

1. Product Listing Page with Dynamic Data



- **Description:** The product listing page dynamically displays products using a manually exported JSON dataset. Each product includes its image, name, price, and a brief description, presented in an aesthetically pleasing format.

2. Individual Product Detail Pages with Accurate Routing and Data Rendering





Smart watch

\$600.00

★★★★★ (0 reviews)

This sleek and modern smartwatch features a black round dial with a vibrant digital display, showing time, notifications, and health stats. The premium silicone strap ensures maximum comfort, while its sporty yet elegant design makes it an ideal accessory for both fitness enthusiasts and tech-savvy individuals.


 **Add to Cart**



20% OFF



Elegant Home Décor



\$36000.00

\$43200.00

★★★★★ (0 reviews)

Create a warm and stylish atmosphere with this modern home décor setup. Featuring luxurious wall art, decorative vases with fresh flowers, stylish cushions, and a sleek coffee table with scented candles, this setting brings a perfect blend of comfort and sophistication. The neutral color palette is complemented by gold and wooden accents, while the soft rugs, warm lighting, and artistic elements make this space a true reflection of elegance and coziness. Perfect for those who love minimalist yet high-end décor to elevate their home interior.

 Add to Cart

10% OFF



Sleek Modern Laptop on Minimalist Desk



\$405.00

\$445.50

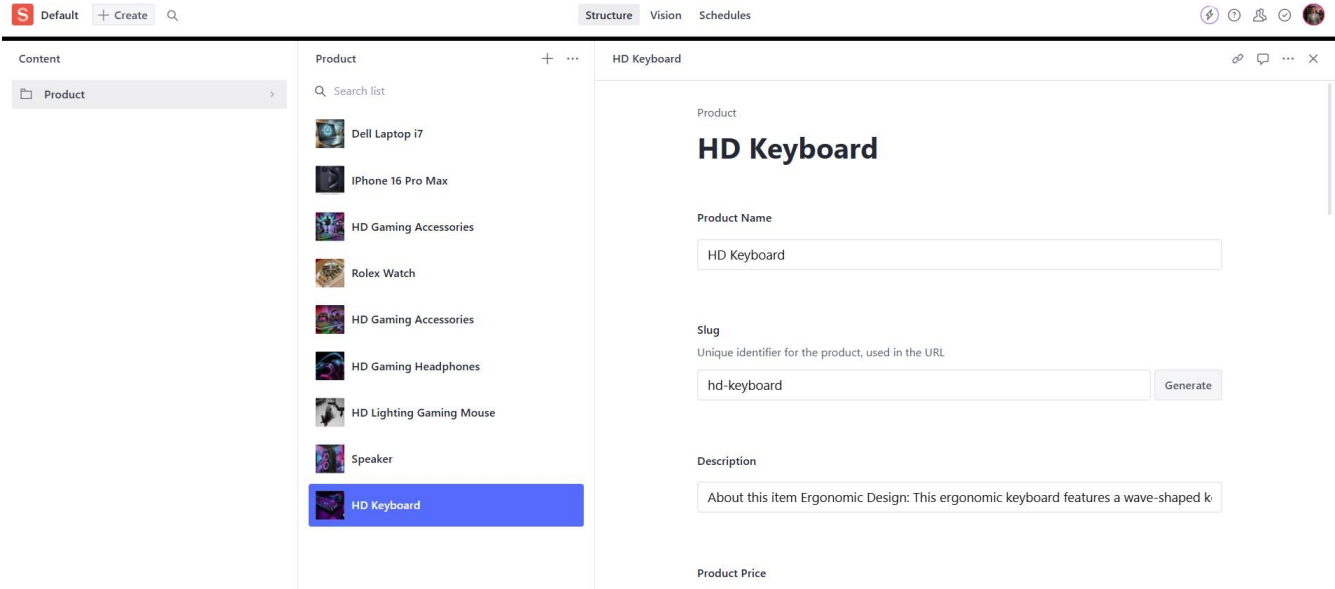
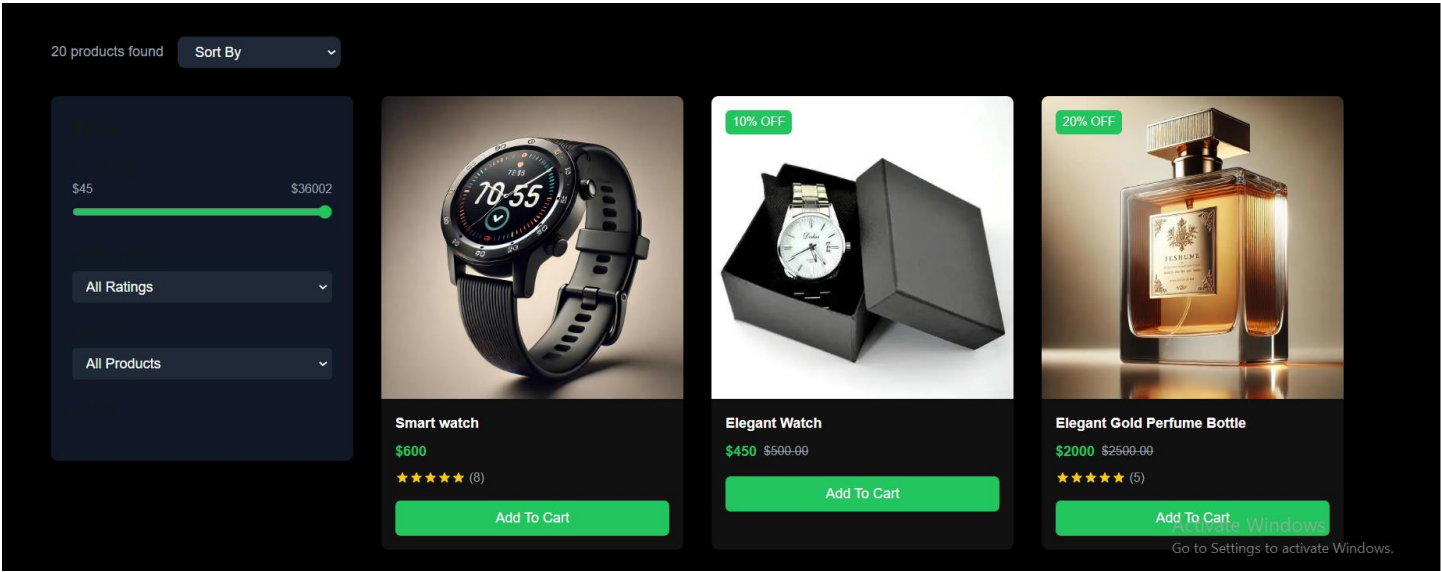
★★★★★ (0 reviews)

This high-definition image showcases a sleek, matte black laptop with a large, high-resolution display, set on a minimalist desk. The clean workspace features a few essential items: a coffee cup, a mouse, and a small plant, creating an environment of focus and productivity. Ideal for work, study, or creative projects, the laptop's design emphasizes modernity and efficiency.

 Add to Cart

- **Description:** Each product detail page dynamically renders data for the selected product, including the title, full description, price, and related images. Accurate dynamic routing ensures users are directed to the correct product page based on their selection.

3. Working Category Filters, Search Bar, and Pagination



Home > Pages > Contact Us

Contact Us

Let's Connect


First name

Email

Phone number

Description

This site is protected by reCAPTCHA and the Google Privacy Policy and Terms of Service apply.

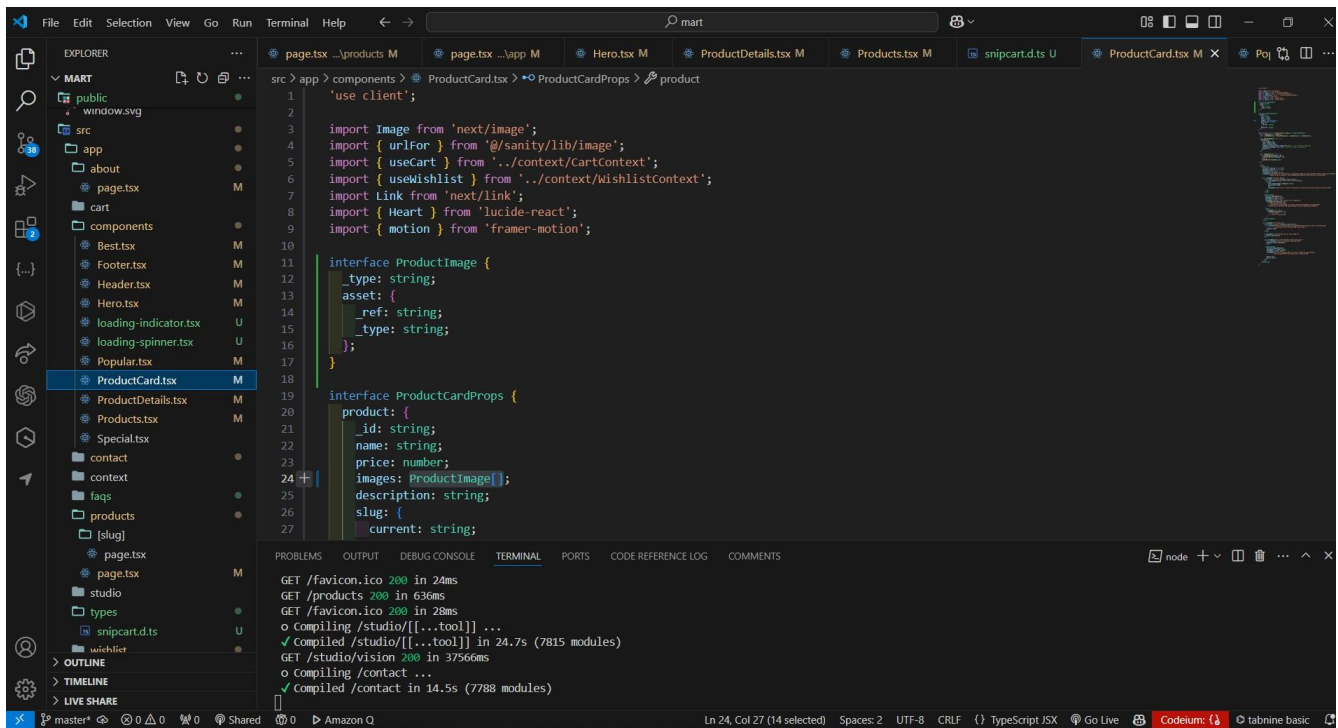


- **Screenshots/Recordings:**
 - Demonstration of category filters.
 - Search bar in action.
- **Description:**
 - **Category Filters:** Filters products based on categories like "Electronics," "Home Appliances," etc.
 - **Search Bar:** Provides real-time search functionality, filtering products dynamically as users type.

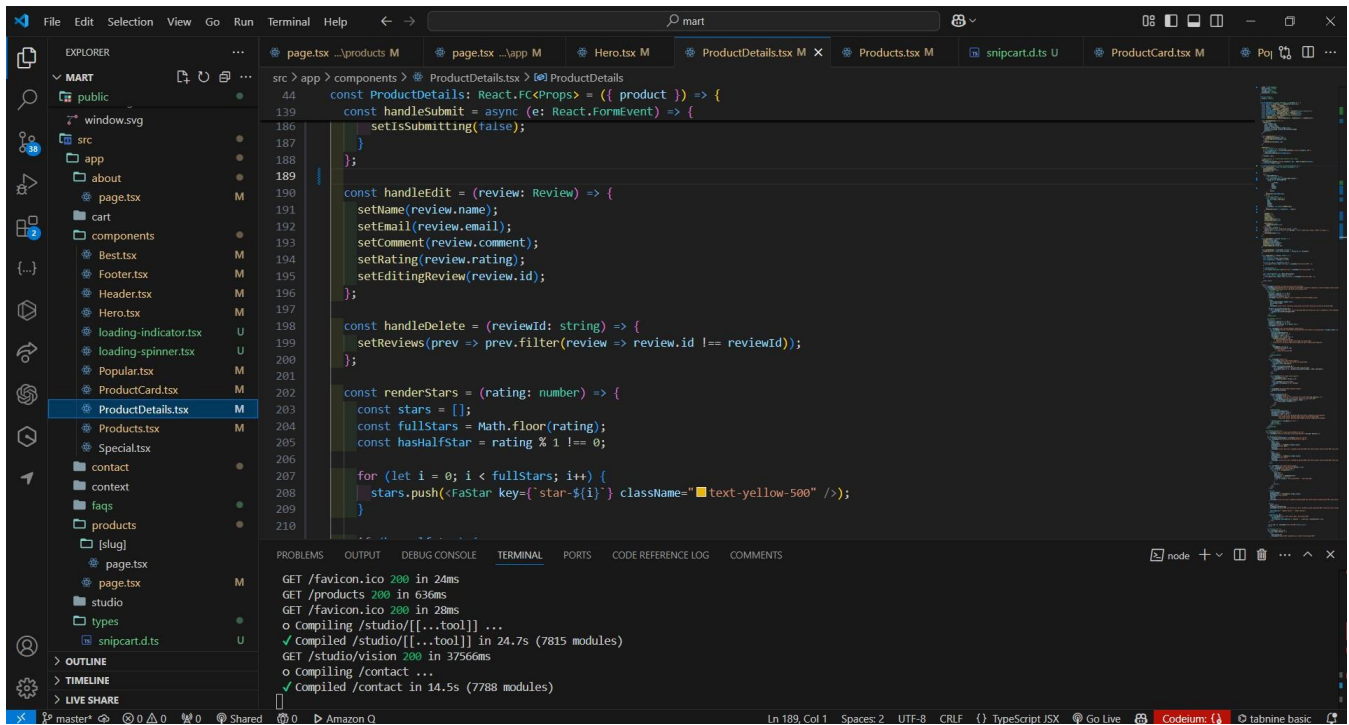
Code Deliverables

Key Components

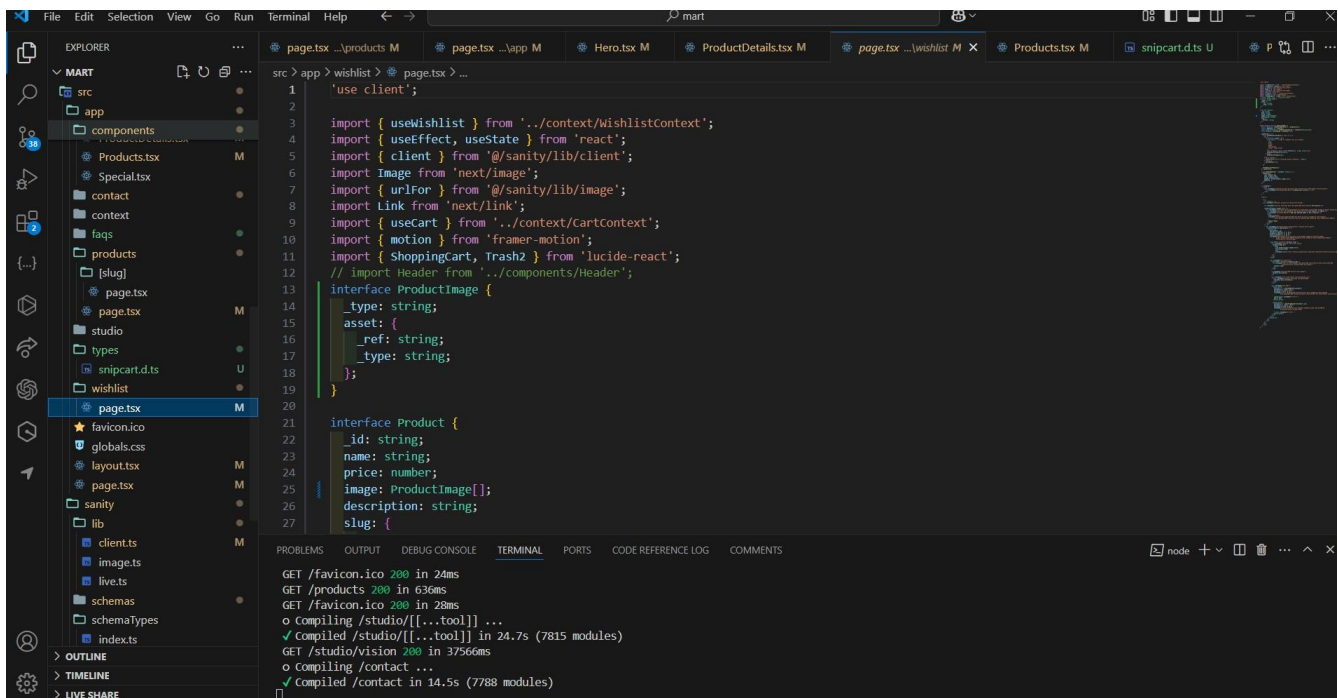
Product Card Component



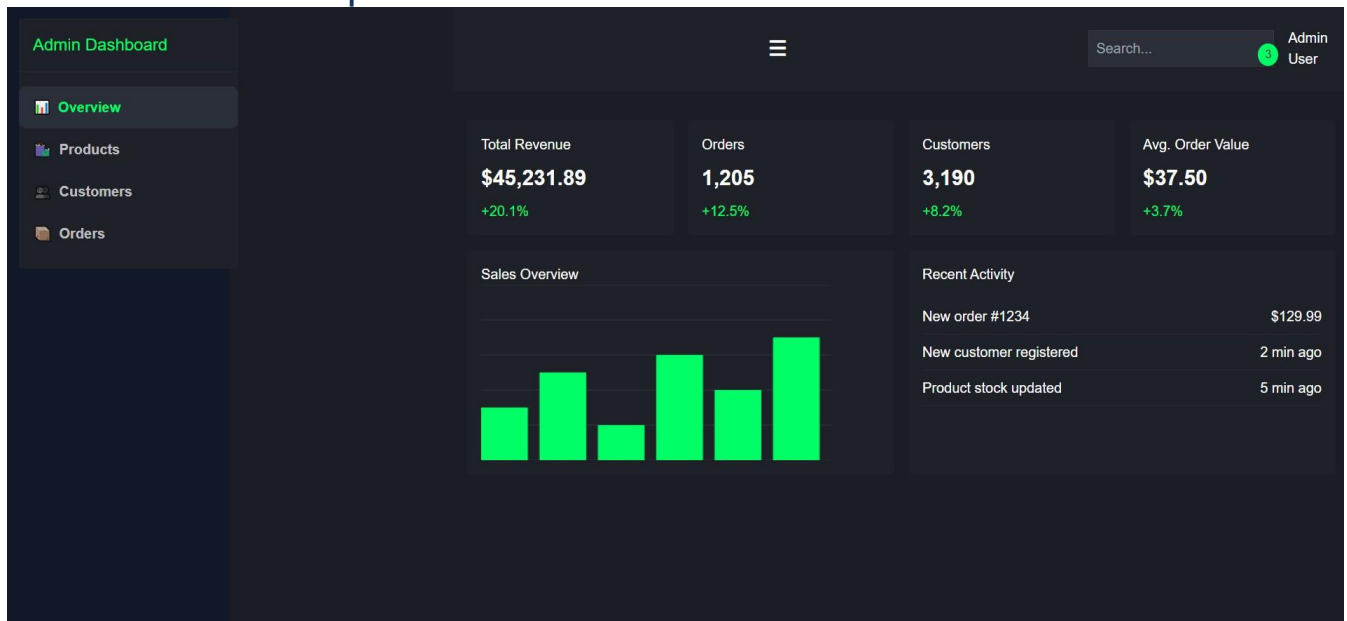
Review Component



Whish List Component



Admin Dashboard Component



Login Page

The Login Page has a dark background with a central shield icon and the text 'SECURE ACCESS TERMINAL'. It contains two input fields: one for the email 'saadmohsin123@gmail.com' and another for a password represented by dots. Below the inputs is a green button labeled 'INITIATE LOGIN SEQUENCE'.

Documentation:

Steps Taken to Build and Integrate Components

1. Data Preparation:

- Created a JSON dataset with fields such as id, name, price, image, and category.

2. Component Development:

- Built reusable components, including Product Card, Product List, and Search Bar.
- Developed additional components like cart, add-to-cart, and user profile sections.

3. Dynamic Routing:

- Implemented Next.js dynamic routing for product detail pages.

4. UI/UX Enhancements:

- Added category filters, search functionality, and pagination.
- Styled components using Tailwind CSS for responsiveness and consistency.

Challenges Faced and Solutions Implemented

1. Efficiently Rendering Large Datasets:

- **Solution:** Implemented pagination to improve performance and load times.

2. Maintaining Consistent Routing and Data Handling:

- **Solution:** Utilized Next.js dynamic routing and centralized data in a JSON file.

3. Creating Responsive and User-Friendly Components:

- **Solution:** Applied Tailwind CSS for styling and ensured a responsive design for various devices.

Best Practices Followed

- Adopted a modular component structure for code reusability.
- Used TypeScript for enhanced type safety and error prevention.
- Ensured responsive designs for optimal user experience on both mobile and desktop.

Components Developed for “Media Mart”

- Accordion
- Product Card
- Product List
- Search Bar
- Image Gallery
- Add-to-Cart
- Wish List
- Pagination
- Header
- Footer
- Admin Dashboard
- Login
- Payment Method(Snip Cart)

Conclusion

The **Media Mart** e-commerce platform demonstrates the power of dynamic frontend components in creating an engaging and functional user experience. By utilizing reusable components, efficient data handling, and responsive design principles, the platform successfully combines usability and performance. Key features such as dynamic routing, category filters, search functionality, and pagination ensure smooth navigation and interaction for users. The challenges encountered during development were effectively addressed through best practices, making the platform robust and scalable. **Media Mart** is a testament to the effectiveness of modern front-end technologies and thoughtful design in crafting user-centric digital solutions.

Best Regards

Web G Media Agency teams