



Appscrip Frontend Assignment – Bonaboina Chithra Gowtham

Live URL: <https://appscrit-task-gowtham.netlify.app/>

GitHub Repository: https://github.com/Tinku070/Appscrip-task-Bonaboina_Chithra_Gowtham.git



1. Objective

The goal of this project is to implement a **Product Listing Page (PLP)** as per the Figma design provided by **Appscrip**.

This project demonstrates proficiency in:

- Converting Figma UI into functional, responsive React code
 - Understanding and implementing **Server-Side Rendering (SSR)** concepts
 - Applying **SEO optimizations** (meta tags, schema, alt text, etc.)
 - Maintaining clean and scalable **React architecture**
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2. Technology Stack

Category	Technology Used
Frontend Framework	React.js (via Create React App)
Language	HTML5, CSS3, JavaScript (ES6+)
API	FakeStoreAPI
Version Control	Git + GitHub
Hosting / Deployment	Netlify
Build Tool	React Scripts (Webpack under the hood)
Code Editor	Visual Studio Code
CSS Methodology	Component-level modular CSS
Browser Compatibility	Chrome, Edge, Safari, Firefox

3. Project Structure

Appscrip-task-Bonaboina_Chithra_Gowtham/

```
|- public/
  |- index.html          # HTML template with SEO meta and schema
  |- favicon.ico
  |- assets/
    |- icons/            # SVG and image assets used throughout

|- src/
  |- assets/
    |- icons/            # SVGs imported in components

  |- components/         # Reusable, modular React components
    |- Header.js / Header.css
    |- Filters.js / Filters.css
    |- ProductCard.js / ProductCard.css
    |- ProductGrid.js / ProductGrid.css
    |- Footer.js / Footer.css

  |- App.js              # Root component assembling UI
  |- App.css             # Global styles
  |- index.js            # Entry point

|- package.json          # Scripts, dependencies, build settings
|- .gitignore
|- .nvmrc                # Forces Node v18 on Netlify
|- README.md             # Project documentation
```

4. Component Breakdown

◆ Header Component ([Header.js](#))

Features:

- Company logo (SVG)
- Navigation icons for search, wishlist, bag, and profile
- Responsive layout: collapses into minimal icons for mobile view
- Fixed position with shadow for better UX

Figma References:

- Matched spacing, alignment, and icon proportions
 - Implemented hover effects and icon tooltips
-

◆ Filters Component ([Filters.js](#))

Features:

- Sidebar filters for categories, price, and color
- “Hide Filter” toggle to collapse sidebar (for mobile responsiveness)
- “Recommended ▼” dropdown aligned to the **right** as per Figma
- Fully responsive using Flexbox and Grid
- Filter icons integrated with [src/assets/icons/](#)

Logic:

- Filters are currently static (UI-based)
 - Designed to be API-ready for future dynamic filtering
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◆ ProductGrid Component ([ProductGrid.js](#))

Features:

- Fetches product data from **FakeStoreAPI**
- Displays products in a responsive grid (3, 2, or 1 column)
- Each product rendered via the [ProductCard](#) component
- Loading and error state management included

API Endpoint:

<https://fakestoreapi.com/products>

◆ ProductCard Component (`ProductCard.js`)

Features:

- Displays product image, name, and price
- Heart (wishlist) icon overlay on top right
- SEO-compliant image `alt` text
- Clean hover transition

Responsive Design:

- Scales images proportionally
 - Adjusts text font-size for mobile screens
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◆ Footer Component (`Footer.js`)

Features:

- Footer sections: About, Help, Shop, and Contact
 - Newsletter subscription input
 - Social media and payment icons (PayPal, ApplePay, GPay, etc.)
 - Accordion-style sections on mobile view
 - SEO-friendly links and aria-labels
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5. Responsiveness (Mobile & Tablet)

Device	Layout
Desktop ($\geq 1024\text{px}$)	3-column product grid + visible sidebar filters
Tablet (768–1023px)	2-column grid, collapsible filters
Mobile ($\leq 767\text{px}$)	1-column grid, filters hidden by default, accordion footer

Used CSS Grid and Flexbox with media queries:

```
@media (max-width: 768px) {  
  .product-grid {  
    grid-template-columns: repeat(2, 1fr);  
  }  
}  
@media (max-width: 480px) {  
  .product-grid {  
    grid-template-columns: 1fr;  
  }  
}
```

6. SEO Optimization

- **Title:** Metta Muse | Discover Our Products

Meta Description:

```
<meta name="description" content="Browse our exclusive collection  
of products on Metta Muse. Filter by category, price, and more.">
```

- **Heading Structure:**

- H1: Product Listing
- H2: Filters, Recommendations

Schema.org Markup:

```
<script type="application/ld+json">  
{  
  "@context": "https://schema.org",  
  "@type": "ItemList",  
  "itemListElement": []  
}  
</script>
```

- **Image Alt Text:** All product images use `alt="Product: {title}"`
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7. Deployment Instructions (Netlify)

Step 1: Push to GitHub

Make sure your final changes are committed:

```
git add .  
git commit -m "Final build for Netlify"  
git push origin main
```

Step 2: Connect to Netlify

1. Go to <https://app.netlify.com/>
2. Click “Add new site → Import from GitHub”
3. Select your repository (`Appscrip-task-Bonaboina_Chithra_Gowtham`)
4. Configure:
 - **Build Command:** `npm run build`
 - **Publish Directory:** `build`
 - **Node Version:** `18` (via `.nvmrc` or Netlify environment)
5. Click **Deploy Site**

Your app will build and deploy automatically on every GitHub push.

8. Learning & Best Practices Applied

- Followed **component-based architecture** in React
 - Maintained **minimal DOM nesting**
 - Used **semantic HTML** elements (`<header>`, `<main>`, `<section>`, `<footer>`)
 - Avoided heavy third-party libraries (no Bootstrap, only React)
 - Wrote modular, reusable CSS
 - Used **Git version control** with clean commit history
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9. Evaluation Checklist (Matches Appscript Requirements)

Evaluation Criterion	Status
HTML & CSS Implementation	✓ Completed
React Functional Page	✓ Completed
SSR Awareness	✓ Documented
Responsive for Mobile/Tablet	✓ Completed
Code Structure & Naming Convention	✓ Clean & Modular
Minimum Pre-built Packages	✓ Used only React & Axios
SEO (Title, Meta, Schema, Alt text)	✓ Implemented
Public Hosting (Netlify)	✓ Live
GitHub Repository (Public)	✓ Available
Mock API Integration	✓ Using FakeStoreAPI



10. Future Improvements

- Implement real-time API filtering
- Add sorting and pagination logic
- Integrate cart functionality and checkout flow
- Improve Lighthouse SEO and accessibility scores
- Migrate to Next.js for full SSR capability



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Deployed App: <https://appscrit-task-gowtham.netlify.app/>