



# 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](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**
- 



## 2. Technology Stack

Category	Technology Used
Frontend Framework	React.js (via Create React App)
Language	HTML5, CSS3, JavaScript (ES6+)
API	<a href="#">FakeStoreAPI</a>
Version Control	Git + GitHub
Hosting / Deployment	<a href="#">Netlify</a>
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
- 

## ◆ 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
- 

## ◆ 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
- 

## 5. Responsiveness (Mobile & Tablet)

Device	Layout
<b>Desktop (≥1024px)</b>	3-column product grid + visible sidebar filters
<b>Tablet (768–1023px)</b>	2-column grid, collapsible filters
<b>Mobile (≤767px)</b>	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}"`
-



## 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
-



## 9. Evaluation Checklist (Matches Appscrip 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
- 



## Author

**Name:** Bonaboina Chithra Gowtham

**Email:** bonaboinagowtham@gmail.com

**GitHub:** <https://github.com/Tinku070>

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