IT-project-A-5 Documentation

5*A

Team 5*A - E-commerce Project

Modern Online Shopping Platform for Fashion & Accessories

Table of Contents

1. Project Overview & Story

Shopping for fashion, accessories, and shoes should be quick and enjoyable—not stressful! Team 5*A's mission is to create an engaging, visually rich, and feature-complete e-commerce experience geared toward trendy young users. Our inspiration came from the clutter and limitations of current online fashion stores. We imagined a **modular, maintainable solution** that is easy for groups to improve and extend.

Key Project Values:

- **Rapid, intuitive navigation** for all shoppers, with minimal clicks to desired products.
- **Personalization:** Shopping experience is tailored through wishlists and carts, all stored on the client side—no login needed for basic features.

- **Component-based structure:** Each key feature (cart, wishlist, product galleries, feedback, policies) is built as a standalone part, easily editable, with minimal tight coupling.
- **Accessibility by default:** All navigation, content, and popups are tested for keyboard and screen-reader accessibility; critical ARIA and alt tags are included.
- **Effortless onboarding:** New contributors can immediately find and edit their area (HTML, JS, CSS, images, docs) due to directory and code clarity.
- **Responsiveness and style:** The UI is mobile-first, using a combination of modular CSS in `/Style/` and global resets. Animations and transitions are kept lightweight for performance.

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2. Fact-Finding & User Interviews

We polled real users—students, young adults, and even parents—about their online shopping pain points:

Concern	Response Summary
Confusing navigation	Users want clear, visible categories
Slow product search	Need instant/product live search
Cart errors, lost items	Must persist cart reliably and show analytics
Flat design, boring visuals	Responsive, lively sections and banners
Frustrating authentication	One-tab login/signup, simple password reset
Hidden policies (refund, terms)	Policies accessible from navigation/footers

User Insights Used in Design:

- Every main menu includes visible links with category, cart, wishlist, and FAQ.
- A persistent cart and wishlist indicator on all relevant pages.
- Live feedback with popups and highlights for cart/wishlist and errors.
- Distinct visual banners and color themes by section for fun and clarity.
- All legal and support info one click away.

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3. Requirement Analysis

User Stories:

- **Shopper:** Browse categories (Men, Women, Kids, Accessories, Shoes) fast and easily.
- **User:** Save favorites to wishlist, edit cart from any device—no account/email required.
- **Admin/Contributor:** Update site policies, legal docs, and FAQ without touching JS code.
- **Guest:** Place orders, send feedback, see status—all without forced login.
- **Contributor:** Get automatic profile, stats, and team recognition via `contributors.html`.

Technical Needs:

- 100% static: deploy anywhere, no dependencies, works offline once loaded.
- Modular architecture: `/products/`, `/Style/`, `/script/` for feature separation.
- Modern CSS: Grid/flex layouts, responsive design.

- Vanilla JS (ES6+), no frameworks but code style allows future migration if needed.
- Local assets: Fast initial load, no CORS/dependency issues.
- Simple, clear code comments and `README.md` for future devs.

Typical Data Flows:

- Cart/wishlist stored in localStorage (`window.localStorage`), key is per-user/device, no backend sync.
- Product lists encoded in HTML; search scripted for client-side filtering.
- Contributor stats (in contributors.js) updated live by page logic.

4. Planning & Methodology

Immediate Priorities:

- One `index.html` for landing and promo, with always-on, responsive menu.
- Dedicated HTML pages for every category/feature/policy.
- Cart, wishlist, and FAQ as always-accessible features (not hidden in submenus).
- Popups (modals and notifications) to explain or confirm all key actions.

Stack:

- HTML5 for page markup.
- CSS3—split into `/Style/` per-category and root styles for site-wide look.
- JavaScript ES6+, one file per feature in `/script/`. Heavy functions are self-contained for easy removal or upgrade.
- Local font files (Futura family, see `/fonts/futura/` section).
- All images, icons, and logos in `/images`.

Timeline Example:

- Week 1 – Wireframe in Figma, implement index + navigation, basic CSS.
- Week 2 – Product HTML/CSS, add client-side cart/wishlist with localStorage.
- Week 3 – Integrate modals, policies, contributors, polish and responsiveness.

Development Methodology:

- Git-based agile: features split by directory or PR.
- Each new component (JS, CSS, HTML section) gets a single "owner" for review.
- PR template ensures description, test/UX checklist, and planned reviewer.
- JS files require minimum one distantly-related reviewer (e.g., UI for backend features).

5. Design & Diagrams

5.1 Project Structure (Logical Overview)

```
. (project root)
├── accessories.html
```

```
├── active.js
├── ai5.html
├── arrow_upper.png
├── Boy.html
├── cart.html
├── child.html
├── contact.html
├── contributors.css
├── contributors.html
├── contributors.js
├── day-mode.png
├── deepseek r1
│   ├── E4h4qW24My6G.com
│   │   ├── _next
│   │   │   └── static
│   │   │       ├── chunks
│   │   │       ├── css
│   │   │       └── media
│   │   └── deepr1.html
│   └── vPc0p7it8kpe.click
│       └── js
│           └── avrtcaPPj5A7.js
├── doc.md
├── doc.pdf
├── faq.html
├── features.html
├── feedback.html
├── fonts
│   └── futura
│       ├── futur.ttf
│       ├── Futura Bold font.ttf
│       ├── Futura Bold Italic font.ttf
│       ├── Futura Book font.ttf
│       ├── Futura Book Italic font.ttf
│       ├── Futura Extra Black font.ttf
│       ├── Futura Heavy font.ttf
│       ├── Futura Heavy Italic font.ttf
│       ├── futura light bt.ttf
│       ├── Futura Light font.ttf
│       ├── Futura Light Italic font.ttf
│       ├── futura medium bt.ttf
│       ├── futura medium condensed bt.ttf
│       ├── Futura Medium Italic font.ttf
│       ├── Futura XBlk BT.ttf
│       ├── tt0205m_.ttf
│       ├── unicode.futurab.ttf
│       └── unicode.futurabb.ttf
├── images
│   ├── Ahmed-abo.jpg
│   ├── Ahmed-sab.jpeg
│   ├── Ahmed-samh.jpg
│   ├── bag1.jpg
│   ├── bag2.jpg
│   ├── bag3.jpg
```

```
│   ├── bag4.jpg
│   ├── bag5.jpg
│   ├── bag6.jpg
│   ├── bag7.jpg
│   ├── bag8.jpg
│   ├── bag9.jpg
│   ├── bazufrill.webp
│   ├── Black Denim Joggers.webp
│   ├── Black Formal Shoes.webp
│   ├── blackstrippedmaneffectimage.jpg
│   ├── blackstrippedmannormal.jpeg
│   ├── booties.webp
│   ├── Bottom Wear.jpeg
│   ├── boy printed tshirt.jpg
│   ├── Boy Sneakers.jpeg
│   ├── Boys Loafer.webp
│   ├── boys round neck tshirt.webp
│   ├── butterfly.jpg
│   ├── Casual Camouflage Jogger.jpeg
│   ├── Casual Shoes.jpg
│   ├── category1.webp
│   ├── category2.webp
│   ├── category3.webp
│   ├── check shirt.webp
│   ├── childbanner.jpg
│   ├── chinatrade.avif
│   ├── cloth1.jpeg
│   ├── cloth10.jpeg
│   ├── cloth11.jpeg
│   ├── cloth12.jpeg
│   ├── cloth13.jpeg
│   ├── cloth14.jpeg
│   ├── cloth15.jpeg
│   ├── cloth16.jpeg
│   ├── cloth17.jpeg
│   ├── cloth18.jpeg
│   ├── cloth19.jpeg
│   ├── cloth2.jpeg
│   ├── cloth20.jpeg
│   ├── cloth3.jpeg
│   ├── cloth4.jpeg
│   ├── cloth5.jpeg
│   ├── cloth6.jpeg
│   ├── cloth7.jpeg
│   ├── cloth8.jpeg
│   ├── cloth9.jpeg
│   ├── clothingEthnic.webp
│   ├── confirmation.png
│   ├── cotton partywearkid2.webp
│   ├── coupleImage.png
│   ├── coupleimageForMainPage.jpeg
│   ├── customer1.jpg
│   ├── customer2.jpg
│   ├── customer3.jpg
```

```
│       ├── Elastic Waist Jeans.jpg
│       ├── embroided straigh kurta.webp
│       ├── fancy boy slipper.avif
│       ├── floralpattern.jpeg
│       ├── frill.jpg
│       ├── full sleeve shirt.webp
│       ├── girl banner.jpg
│       ├── girl leather.jpg
│       ├── girl sandals.jpg
│       ├── girl shoes.webp
│       ├── girls track pants.jpg
│       ├── green colour jacquard silk kurta.jpeg
│       ├── h1-slide-show-1_1_1.webp
│       ├── h1-slide-show-2.webp
│       ├── h1-slide-show-3.webp
│       ├── high heels.jpeg
│       ├── img1.jpg
│       ├── img10.jpg
│       ├── img11.jpg
│       ├── img12.jpg
│       ├── img13.jpg
│       ├── img14.jpg
│       ├── img15.jpg
│       ├── img16.jpg
│       ├── img17.jpg
│       ├── img18.jpg
│       ├── img19.jpg
│       ├── img2.jpg
│       ├── img20.jpg
│       ├── img3.jpg
│       ├── img4.jpg
│       ├── img5.jpg
│       ├── img6.jpg
│       ├── img7.jpg
│       ├── img8.jpg
│       ├── img9.jpg
│       ├── insta1.webp
│       ├── insta2.webp
│       ├── insta3.webp
│       ├── insta4.webp
│       ├── insta5.webp
│       ├── insta6.webp
│       ├── kids-girl-tops1.jpg
│       ├── kids-girls-baby-western-top-for-women-full.jpg
│       ├── kidsplazzo.webp
│       ├── kurta set.jpg
│       ├── Leather Shoes.jpg
│       ├── Legasy.jpg
│       ├── light up toddler        girl.webp
│       ├── Light Weight boys slippers.webp
│       ├── logo.png
│       ├── logo1.png
│       ├── Mainpagebanner.jpg
│       ├── Me.png
```

```
│   ├── Net Sequins Embroidered.jpg
│   ├── Pamper pants.jpeg
│   ├── pocket Mild Wash Bermuda Shorts.jpg_2000Wx3000H
│   ├── pocketSolidShorts.webp
│   ├── popup1.jpg
│   ├── printedlegging.webp
│   ├── printedpuffsleeves.webp
│   ├── product1-effect.jpg
│   ├── product1.webp
│   ├── product2-effect.jpg
│   ├── product2.jpg
│   ├── product3-effect.jpg
│   ├── product3.webp
│   ├── product4-effect.jpg
│   ├── product4.jpg
│   ├── product5-effect.jpg
│   ├── product5.jpg
│   ├── product6-effect.jpg
│   ├── product6.jpg
│   ├── product7-effect.jpg
│   ├── product7.jpg
│   ├── product8-effect.jpg
│   ├── product8.jpg
│   ├── pumps shoes.jpg
│   ├── rio girls tie and dye shirt.webp
│   ├── SALEACC.png
│   ├── sandal1.jpg
│   ├── sandal2.jpg
│   ├── sandal3.jpg
│   ├── sandal4.jpg
│   ├── sandal5.jpg
│   ├── sandal6.jpg
│   ├── sandal7.jpg
│   ├── sandal8.jpg
│   ├── shop-bags.webp
│   ├── shop-clothing.webp
│   ├── shop-glasses.webp
│   ├── shop-sandals.webp
│   ├── shop-sneakers.webp
│   ├── shortboys.png
│   ├── shorts.jpg
│   ├── sifli sikvans boy kurta.webp
│   ├── Stylish Shoes.jpg
│   ├── sunglasses1.jpg
│   ├── sunglasses2.jpg
│   ├── sunglasses3.jpg
│   ├── sunglasses4.jpg
│   ├── sunglasses5.jpg
│   ├── sunglasses6.jpg
│   ├── sunglasses7.jpg
│   ├── sunglasses8.jpg
│   ├── tealimageshirtmen.jpeg
│   ├── tealshirtmeneffect.jpeg
│   ├── toddler girl sandals.jpg
```

```
│       ├── Trendy Bottoms.jpg
│       ├── Trouser for Boys.webp
│       ├── twg.jpeg
│       ├── whitetshirtmen.jpeg
│       ├── whitetshirtmeneffect.jpeg
│       └── youngcouple1.jpg
├── index.html
├── login-sginup.html
├── mens.html
├── moon.png
├── ordertt.html
├── preloader.js
├── preloaderStyle.css
├── privacy.html
├── products
│       ├── bags.html
│       ├── productscss.css
│       ├── sandals.html
│       └── sunglasses.html
├── README.md
├── return-policy.html
├── script
│       ├── modal_box.js
│       ├── popup.js
│       ├── progressbar.js
│       └── share-button.js
├── shopclothing.html
├── sneaker.html
├── Style
│       ├── bags.css
│       ├── popup.css
│       ├── sandals.css
│       ├── sneaker.css
│       └── sunglasses.css
├── style.css
├── styles.css
├── terms-conditions.html
├── todo.html
├── wishlist.html
└── womens.html
```

- For each `.html`, there is optionally a matching `.css` in `/Style/` and JS handler in `/script/`.

5.2 Key UX/UI Relationships

```
flowchart TD
    index.html --> style.css
    index.html --> preloaderStyle.css
    index.html --> Style/popup.css
    cart.html & wishlist.html --> script/*
    all_pages --> preloader.js
```

```
    all_main_pages --> active.js
    contributors.html --> contributors.css
    contributors.html --> images/Me.png
    products/* --> Style/*
```

5.3 UI/UX Principles

- **Consistency:** Menus, buttons, color-schemes, and banners are consistent per category and through the whole site.
- **Mobile First:** All layouts start with mobile, progressive enhancement for desktop/tablet.
- **Accessibility:** Color contrast checks, keyboard support in all modals and navigation, image `alt` fields on all visuals.

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6. Implementation

- **Navigation:** Dropdowns, hamburger menus, and active-tab highlight (via `active.js`). Keyboard and screen-reader accessible. Mobile menu overlays supported.
- **Product/Category Pages:** Gridded cards, lazy-loaded product images, price highlights, and "add/wishlist" buttons. Details/cards have hover states and accessible focus outlines.
- **Cart/Wishlist/Auth:** All cart/wishlist actions immediately persist to localStorage. Modals inform user of adds/removals/errors. Unified login-signup modal in `login-sginup.html`.
- **Popups/Modals:** Reusable modal logic (`modal_box.js`). Popups fired for cart actions, critical errors, or marketing (optional; heavy popups discouraged for UX).
- **Feedback/Contact:** Each form has client-side required-checks, instant error prompts, and clear success/error messages. Non-blocking rating stars/bar for feedback.
- **Search/FAQ:** Full instant (JS) filtering on product name/category. FAQ uses JS accordion, accessible and screen-reader friendly.
- **Contributors Page:** Loads team stats/bios dynamically, showing individual contributions, avatars, and dynamic badges for top contributors (updates via `contributors.js`).

Modularization Philosophy:

- All features are in their own files. To upgrade a feature, edit only that file/folder, rebuild only what's needed.
- Every HTML/CSS/JS file follows a naming pattern for clarity.
- Comments explain all nontrivial JS and CSS logic.

Example: Adding 'Back to Top' button:

- Place its HTML snippet in `/includes/` or directly in common HTMLs.
- Link new `backtotop.js` in `/script/`, add styling in `/Style/backtotop.css`.
- Import and initialize in `index.html`, test on mobile/desktop.

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7. Testing, Deployment & Maintenance

- **Browser coverage:** Chrome, Firefox, Edge, tested for rendering and event behavior. Safari checked for font/images.

- **Manual cross-device:** iOS and Android (emulators, device), check touch/scroll/hover and overlays.
- **Accessibility:** All key paths tested with keyboard, tab orders verified, all forms accessible via screen reader.
- **Performance:** All images optimized for fast load, CSS/JS split so each page loads only what it strictly needs.
- **Maintenance-friendly:** Every script/CSS modular and documented in-header. Policy pages and contributors use simple text, ready for non-engineers.
- **Backup/Restore:** Full site can be zipped and restored just by dragging to server/GitHub Pages.

8. Comprehensive Project Files & Folders Guide

Root Directory

File/Folder	Type	Info & Description
accessories.html	HTML	Accessories section page listing all accessory products.
active.js	JS	Handles main navigation, active tab highlights.
ai5.html	HTML	Experimental/testing workspace; not for production (sandbox code/UI).
arrow_upper.png	Image	UI icon for "back to top" or scroll-to-section controls.
Boy.html	HTML	Landing/category page for boy's fashion.
cart.html	HTML	Interface for viewing, editing, and checking out the shopping cart; tied to cart/wishlist logic.
child.html	HTML	Child-wear landing page, special offers and promotions for kids.
contact.html	HTML	Contact and inquiry form page; for user messages.
contributors.css	CSS	Styling for contributors.html, incl. avatars & badges.
contributors.html	HTML	Team/contributors showcase; dynamically updated with bios, stats, badges.
contributors.js	JS	Runs/statistics logic for contributors.html, like profile management and "top contributor" badges.
day-mode.png	Image	Day/light mode toggle icon (theme switching).
deepseek r1/	Directory	Legacy/experimental/3rd-party or research code/assets. **Not part of active user-facing site!**
doc.md	Markdown	This full user & dev documentation ("master reference" document).
doc.pdf	PDF	PDF export/printout of documentation.
faq.html	HTML	Frequently Asked Questions section, has expandable answers.
features.html	HTML	Showcase for detailed features and screenshots of modules.
feedback.html	HTML	Feedback form page; includes rating system & comment box.

File/Folder	Type	Info & Description
fonts/	Directory	Houses auxiliary font files (see below for detailed breakdown).
images/	Directory	All static images (products, avatars, icons, banners, logos, etc); see section below.
index.html	HTML	Site homepage/landing page; main navigation, banners, promos, search.
login-sginup.html	HTML	Unified modal-based login and signup page; no external authentication required.
mens.html	HTML	Men's clothing and accessories landing page/featured styles.
moon.png	Image	Dark/night mode toggle icon (theme switching).
ordertt.html	HTML	Order summary/sample order tracker; for viewing placed orders.
preloader.js	JS	Logic for loading animations and handling page transitions.
preloaderStyle.css	CSS	Styles for animated preloader/display during loading.
privacy.html	HTML	Legal privacy policy (GDPR-compliant).
products/	Directory	All main product category pages (HTML), plus shared product styles.
README.md	Markdown	Quick start and setup reference (short form for new devs).
return-policy.html	HTML	Returns and refunds policy (customer rights and steps).
script/	Directory	All modular site JS for UI/feature logic (see below for detailed).
shopclothing.html	HTML	Main gallery page for all clothing items; mixes categories.
sneaker.html	HTML	Sneaker product page, includes all styles with dynamic offers.
Style/	Directory	Modular CSS by category/feature; custom theme vars and section styles.
style.css	CSS	Main global CSS: base, resets, shared typography and variables.
styles.css	CSS	Additional global overrides, typically for root/landing tweaks.
terms-conditions.html	HTML	Terms of service, usage policies, customer/legal obligations.
todo.html	HTML	Team/project TODO page; current active/planned tasks (project management).
wishlist.html	HTML	Wishlist view; displays all favorited products, works client-side.
womens.html	HTML	Women's collection: clothing, top offers, featured styles, etc.

/products/

File	Type	Info & Description

File	Type	Info & Description
bags.html	HTML	Dedicated page for shopping/selecting bags; special offers, banners.
sandals.html	HTML	Sandal category page; seasonal sub-sections, multi-product listing.
sunglasses.html	HTML	Sunglasses/shades product page; discounts and banners.
productscss.css	CSS	Shared styling sheet for all product HTMLs in this directory.

/fonts/futura/

File	Type	Info & Description
futur.ttf	Font (TTF)	Futura Regular TrueType font.
Futura Bold font.ttf	Font (TTF)	Futura Bold weight.
Futura Bold Italic font.ttf	Font (TTF)	Futura Bold Italic weight.
Futura Book font.ttf	Font (TTF)	Book/medium-light version of Futura.
Futura Book Italic font.ttf	Font (TTF)	Italicized Book font.
Futura Extra Black font.ttf	Font (TTF)	Extra Black (ultra-bold) Futura.
Futura Heavy font.ttf	Font (TTF)	Heavy/boldest variation.
Futura Heavy Italic font.ttf	Font (TTF)	Heavy weight in Italic style.
futura light bt.ttf	Font (TTF)	Light/very thin Futura.
Futura Light font.ttf	Font (TTF)	Light.
Futura Light Italic font.ttf	Font (TTF)	Light Italic.
futura medium bt.ttf	Font (TTF)	Medium.
futura medium condensed bt.ttf	Font (TTF)	Condensed Medium Futura.
Futura Medium Italic font.ttf	Font (TTF)	Medium Italic.
Futura XBlk BT.ttf	Font (TTF)	Extra Black (Special).
tt0205m_.ttf	Font (TTF)	Miscellaneous Futura variant.
unicode.futurab.ttf	Font (TTF)	Unicode Futura (black weight).
unicode.futurabb.ttf	Font (TTF)	Unicode Futura (bold/black).

/images/

File (sample)	Type	Info & Description
Ahmed-abo.jpg	Image	Contributor avatar.
bag1.jpg, bag2.jpg...	Image	Product photos for bags.

File (sample)	Type	Info & Description
Black Denim Joggers.webp	Image	Product photo, apparel.
logo.png, logo1.png	Image	Site main logo (used in headers/footers).
Me.png	Image	Contributor avatar (for contributors.html).
day-mode.png, moon.png	Image	Theme toggle icons (day/night).
...	...	... (Contains **all** product shots, avatars, banners, UI icons, and more.)

Images are grouped by role: contributor avatars, product assets, UI elements, seasonal banners, icons, and logos. All are referenced in HTML, CSS, and used for styling/content.

/script/

File	Type	Info & Description
modal_box.js	JS	Handles all modal, popup, content open/close, and accessibility logic.
popup.js	JS	Lightweight toast/notification logic for user alerts, info overlays.
progressbar.js	JS	Displays and animates progress bars (e.g., checkout steps, cart progress visualized).
share-button.js	JS	Provides "share this" functionality across products and site, clipboard integration.

/Style/

File	Type	Info & Description
bags.css	CSS	Styles for bags.html (bags product page only).
popup.css	CSS	Universal popup/modal styling (used across site for feedback, notifications, etc.).
sandals.css	CSS	Styles for sandals.html category page.
sneaker.css	CSS	Styles for sneaker.html product section.
sunglasses.css	CSS	Styles for sunglasses.html product section.

All style files follow component/category scope; use CSS custom properties for themes.

/deepseek r1/

File/Folder	Type	Info & Description

File/Folder	Type	Info & Description
E4h4qW24My6G.com/_next/static/	Directory	Legacy/experimental static assets from 3rd-party demo.
vPc0p7it8kpe.click/js/avrtcaPPj5A7.js	JS	Example/sample code from imported demo.
deepr1.html	HTML	Related legacy/demo HTML, not used on main site.

The entire folder is considered archived/not part of the core/final project.

> **Legend / Type Key:**
>
> - *HTML*: Web page
> - *CSS*: Stylesheet
> - *JS*: JavaScript logic
> - *Image*: Static image asset (JPG, PNG, WEBP, etc.)
> - *Font*: Typography/font file
> - *Markdown*: Documentation in Markdown format
> - *PDF*: Portable Document Format
> - *Directory*: Folder (may contain more of above)

Navigation Notes

- Each `.html` page may optionally have a matching .css file in `/Style/` and JS handler in `/script/`.
- All images, fonts, and scripts are referenced by relative path for portability.
- To add, swap, or remove a feature, update the corresponding file(s)/directory and modify this section.

9. Development Team & Technical Roles

Technical Members:

Name	Primary Focus by color
Ali Ezz Ali	perpol
Ahmed Abo Bakr	red
Ahmed Sabery	green

Non-Technical & UX:

Name	Main Contributions
Ahmed Sameh	blue
Abdrhamn Khaled	yealow

- Reach via GitHub Issues or Notion (preferred), or on PR for code/content.

10. Feature Breakdown

- **Category Browsing:** Men, Women, Kids, Accessories, Shoes—core navigation, always present; grid/filters JS.
- **Cart & Wishlist:** LocalStorage state; clear, persistent; JS-based.
- **Authentication & Popups:** Modal-driven, simple validation; password reset, one-tab UX.
- **Product Search & FAQ:** Instantly filters products and FAQ answers client-side.
- **Theme Switcher:** Day/night toggle, persists preference.
- **Feedback/Forms:** Real-time validation, star/slider ratings.
- **Team/Contributors:** Live bios, avatars, and badge logic for active team.
- **Policy Pages:** Clear, accessible, no code experience needed for editors.

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11. Deployment & Running

- No backend/build step! Works anywhere—Python server, Netlify, GitHub Pages.
- **Deployment example:** (see root for more)

```
python3 -m http.server 8080
# Open http://localhost:8080 or on network: http://192.168.x.x:8080
```

- For Netlify, just drag, for GitHub Pages push to main branch.
- Refresh browser cache for style/image updates.

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12. Developer FAQ

- **How do I add a category/product?**

  1. Copy an existing HTML in `/products/` or root.
  2. Edit content, update links.
  3. Add to menu in `style.css` and relevant scripts.

- **Where do I add images/fonts?**

  - Put in `/images` or `/fonts/futura/`, reference by relative path in HTML/CSS.

- **How do I create a new JS or CSS feature?**

  - Place file in `/script/` or `/Style/`, link in relevant HTML, comment at top with feature/purpose.

- **How do I get code reviewed?**

  - Push to PR and request peer/team review; see `/contributors.html` for current team.

- **Want to join team?**

  - See `/contributors.html`, add entry, and avatar, update logic in `/contributors.js`.

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13. Code Quality, Security & Accessibility

- **Code:** Clear, modular, BEM CSS, ES6 JS only, explained in comments.
- **Security:** All local-only, never submits/stores sensitive data, avoids 3rd-party scripts.
- **Accessibility:** Follows WAI-ARIA, alt tags on images/assets, tabbing and contrast checked.

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14. Contribution Guidelines

- Modularize everything—one feature per file/folder when possible.
- Test UI in Chrome, Firefox, and mobile on every PR.
- All major changes must update this `doc.md`.
- Review PRs for style, intent, security, and UX.
- Keep images/compressed, code commented, contributors page up-to-date.

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*End of 5*A E-commerce Project Unified Documentation*