**Project Overview**

**Project Details**

* **Project Name:** Oud Éire - Premium Oud Fragrances E-commerce Website
* **Project Type:** Responsive Single Page Application (SPA)
* **Technology Stack:** HTML5, CSS3, Vanilla JavaScript
* **Target Market:** Ireland
* **Development Approach:** Mobile-First Responsive Design

**Business Objectives**

1. **Brand Establishment** - Position Oud Éire as a premium oud fragrance brand
2. **E-commerce Enablement** - Facilitate online sales within Ireland
3. **User Experience** - Provide seamless shopping experience across all devices
4. **Brand Storytelling** - Showcase brand heritage and product philosophy

**Key Features**

* Complete product catalogue with 14 premium oud fragrances for now
* Advanced filtering and search capabilities
* Shopping cart with persistent storage
* Wishlist functionality
* Responsive design for all device types
* Single Page Application architecture

**Technical Architecture**

**System Architecture Diagram**

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│ USER INTERFACE LAYER │

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│ COMPONENT LAYER │

│ ┌─────────────┐ ┌─────────────┐ ┌────────────┐ │

│ │ Header │ │ Product │ │ Cart │ │

│ │ Navigation │ │ Display │ │ System │ │

│ └─────────────┘ └─────────────┘ └────────────┘ │

├─────────────────────────────────────────────────┤

│ APPLICATION LAYER │

│ ┌─────────────┐ ┌─────────────┐ ┌────────────┐ │

│ │ Routing │ │ State │ │ Event │ │

│ │ System │ │ Management │ │ Handling │ │

│ └─────────────┘ └─────────────┘ └────────────┘ │

├─────────────────────────────────────────────────┤

│ DATA LAYER │

│ ┌─────────────┐ ┌─────────────┐ │

│ │ LocalStorage│ │ Static │ │

│ │ (Client) │ │ Product │ │

│ │ │ │ Data │ │

│ └─────────────┘ └─────────────┘ │

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**Data Flow Architecture**

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User Interaction → Event Handler → State Update → UI Render → Data Persistence

↓ ↓ ↓ ↓ ↓

Click Add addToCart() cart.push() updateCart() saveToLocal()

to Cart UI Storage()

**File Structure**

**Complete Project Structure**

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oud-eire-website/

│

├── 📁 documentation/

│ ├── PROJECT\_DOCUMENTATION.docx (this document)

│ ├── technical-specifications.md

│ └── deployment-guide.md

│

├── 🌐 index.html (Main Application File)

│

├── 📁 css/

│ ├── main.css (Core styles & variables)

│ ├── components.css (UI components)

│ └── responsive.css (Mobile styles)

│

├── 📁 js/

│ ├── main.js (App initialization)

│ ├── navigation.js (Routing & menus)

│ ├── products.js (Product management)

│ ├── cart.js (Shopping cart)

│ ├── wishlist.js (Wishlist features)

│ └── search.js (Search functionality)

│

├── 📁 images/

│ ├── logo.png (Brand logo)

│ ├── aboutus.jpg (About section image)

│ ├── 📁 products/ (Product images)

│ │ ├── b.jpg

│ │ ├── oud-orchid.jpg

│ │ ├── ramz-silver.jpg

│ │ └── [11 more product images...]

│ └── placeholder.jpg (Fallback image)

│

├── 📄 FORM.html (External account form)

**File Specifications**

**1.**[**index.html**](https://index.html/)

* **Purpose**: Main application container and entry point
* **Features**:
  + Single Page Application structure
  + 6 main page sections
  + 4 interactive sidebars
  + Comprehensive footer with legal links
* **Dependencies**: All CSS and JavaScript files

**2. CSS Architecture**

* **main.css** - Global styles, CSS variables, typography, layout
* **components.css** - Reusable UI components, sidebars, cards
* **responsive.css** - Media queries, mobile optimization

**3. JavaScript Modules**

* **main.js** - Application core, initialization, utilities
* **navigation.js** - Page routing, mobile menu, navigation
* **products.js** - Product data, rendering, filtering
* **cart.js** - Shopping cart operations, persistence
* **wishlist.js** - Wishlist management
* **search.js** - Search functionality, real-time results

**Design System**

**Color Palette**

| Color Variable | Hex Code | Usage |
| --- | --- | --- |
| --burgundy | #800020 | Primary brand color |
| --burgundy-dark | #600018 | Hover states, active elements |
| --burgundy-light | #A00028 | Secondary elements |
| --cream | #FFFDF5 | Main background |
| --gold | #D4AF37 | Accent color, highlights |
| --charcoal | #333333 | Primary text color |
| --gray-light | #f8f9fa | Secondary backgrounds |

**Typography System**

* **Headings**: Playfair Display (Serif)
  + Weights: 400, 500, 600, 700
* **Body Text**: Inter (Sans-serif)
  + Weights: 300, 400, 500, 600

**Font Scale**

text

--text-xs: 0.75rem; /\* 12px \*/

--text-sm: 0.875rem; /\* 14px \*/

--text-base: 1rem; /\* 16px \*/

--text-lg: 1.125rem; /\* 18px \*/

--text-xl: 1.25rem; /\* 20px \*/

--text-2xl: 1.5rem; /\* 24px \*/

--text-3xl: 1.875rem; /\* 30px \*/

--text-4xl: 2.25rem; /\* 36px \*/

--text-5xl: 3rem; /\* 48px \*/

**Spacing System**

8-point grid system for consistent layout:

text

--space-1: 0.25rem; /\* 4px \*/

--space-2: 0.5rem; /\* 8px \*/

--space-3: 0.75rem; /\* 12px \*/

--space-4: 1rem; /\* 16px \*/

--space-5: 1.25rem; /\* 20px \*/

--space-6: 1.5rem; /\* 24px \*/

--space-8: 2rem; /\* 32px \*/

--space-10: 2.5rem; /\* 40px \*/

--space-12: 3rem; /\* 48px \*/

--space-16: 4rem; /\* 64px \*/

--space-20: 5rem; /\* 80px \*/

**Features & Functionality**

**Core E-commerce Features**

**1. Product Management**

* **14 Premium Products**: Complete oud fragrance catalog
* **Product Filtering**: By brand, price range, scent type
* **Sorting Options**: Featured, newest, price (low-high, high-low), name
* **Product Details**: Comprehensive product information pages
* **Related Products**: Dynamic product recommendations

**2. Shopping Cart System**

* **Add/Remove Items**: Full cart management
* **Quantity Control**: Increment/decrement product quantities
* **Persistent Storage**: Cart saved in browser localStorage
* **Real-time Updates**: Instant cart total calculations
* **Checkout Simulation**: Demo checkout process

**3. Wishlist Functionality**

* **Save Favorites**: Add products to personal wishlist
* **Cross-session Persistence**: Wishlist saved in localStorage
* **Easy Management**: Simple add/remove operations

**4. Advanced Search**

* **Real-time Search**: Instant results as user types
* **Search Suggestions**: Popular categories and terms
* **Product Filtering**: Search across names, descriptions, brands, scents
* **Loading States**: Visual feedback during search

**5. User Interface Components**

* **Responsive Navigation**: Mobile-optimized menu system
* **Interactive Sidebars**: Slide-out panels for cart, wishlist, search
* **Product Grids**: Responsive product card layouts
* **Form Handling**: Contact forms, newsletter signup, login/register

**User Journey Flows**

**Primary Shopping Journey**

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Home Page → Browse Products → Apply Filters → View Product Details →

Add to Cart → Review Cart → Proceed to Checkout

**Alternative Journey**

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Search Products → Add to Wishlist → Later Purchase → Move to Cart → Checkout

**Technical Specifications**

**Browser Compatibility**

| Browser | Minimum Version | Status |
| --- | --- | --- |
| Google Chrome | 90+ | ✅ Fully Supported |
| Mozilla Firefox | 88+ | ✅ Fully Supported |
| Safari | 14+ | ✅ Fully Supported |
| Microsoft Edge | 90+ | ✅ Fully Supported |
| Mobile Browsers | Current versions | ✅ Fully Supported |

**Performance Characteristics**

* **Load Time**: < 3 seconds on 3G
* **JavaScript**: Vanilla JS (no framework dependencies)
* **Storage**: Client-side localStorage (5MB+ capacity)
* **Images**: Optimized product images with fallbacks

**Accessibility Features**

* **WCAG 2.1** AA Compliance
* **Keyboard Navigation** - Full tab-based navigation
* **Screen Reader** - ARIA labels and semantic HTML
* **Color Contrast** - Meets accessibility standards
* **Focus Management** - Proper focus indicators

**Responsive Breakpoints**

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Mobile First: < 576px

Tablet: 576px - 768px

Small Desktop: 768px - 1024px

Large Desktop: > 1024px

**Deployment Guide**

**Pre-deployment Checklist**

* All product images are optimized and properly linked
* [FORM.html](https://form.html/) (connected using firebase) is in root directory and accessible
* [ \*] All JavaScript files are properly linked and error-free
* CSS variables are correctly defined for brand colors
* [ \*] LocalStorage functionality tested across browsers
* All navigation links are working correctly
* Mobile responsiveness verified on multiple devices

**Deployment Steps**

**1. Local Development Setup**

bash

*# Extract project files to web server directory*

*# Ensure file structure is maintained exactly*

*# Open index.html in web browser to test locally*

**2. Production Deployment**

1. **Upload Files** - Transfer entire folder structure to web host
2. **Server Configuration** - Ensure SPA routing is supported
3. **SSL Certificate** - Implement HTTPS for secure transactions
4. **Domain Mapping** - Point domain to project directory
5. **Testing** - Comprehensive functionality testing

**3. File Requirements**

* **Web Server**: Apache/Nginx with HTTPS support
* **Storage**: Minimum 50MB space
* **Bandwidth**: Suitable for e-commerce traffic
* **Browser**: Modern browsers with JavaScript enabled

**Configuration Notes**

[**FORM.html**](https://form.html/)**Integration**

* Account buttons redirect to [FORM.html](https://form.html/)
* Ensure [FORM.html](https://form.html/) is in same directory as [index.html](https://index.html/)
* Test redirect functionality after deployment

**Ireland-Specific Configuration**

* Pricing in Euros (€)
* Shipping limited to Ireland
* Contact information for Irish market

**Testing Checklist**

**Functional Testing**

**Navigation & Routing**

* Main navigation links work correctly
* Mobile menu opens/closes properly
* Footer navigation links functional
* Page transitions are smooth
* Browser history navigation works

**Product Features**

* Product filtering by brand works
* Price range filtering functional
* Scent type filtering accurate
* Product sorting options work
* Product detail pages load correctly
* Related products display properly

**Cart & Wishlist**

* Add to cart functionality works
* Remove from cart functions properly
* Cart quantities can be updated
* [ \*] Cart persists between sessions
* Wishlist add/remove functions work
* Wishlist persists between sessions
* Cart totals calculate correctly

**Search System**

* Real-time search returns results
* Search suggestions are helpful
* Empty search states handled
* Search results are accurate
* Loading states display properly

**Cross-Browser Testing**

* Chrome (latest version)
* Firefox (latest version)
* Safari (latest version)
* Edge (latest version)
* Mobile Chrome
* Mobile Safari

**Device Testing**

* Desktop (1920x1080)
* Laptop (1366x768)
* Tablet (768x1024)
* Mobile Large (414x896)
* Mobile Small (375x667)

**Performance Testing**

* Page load time under 3 seconds
* [ \*] Image optimization adequate
* JavaScript execution efficient
* Smooth animations and transitions
* No memory leaks in prolonged use

**Client Handover Checklist**

**Documentation Delivered**

* Complete project source code
* This comprehensive documentation
* [ \*] Technical specification documents
* Deployment and setup guides
* Maintenance procedures

**Assets Transferred**

* All website files and folders
* Product images and brand assets
* Configuration files
* Testing reports

**Knowledge Transfer**

* Architecture overview session
* Code structure walkthrough
* Maintenance procedures training
* Troubleshooting guidance

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GITHUB

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GMAIL: CONTINUED WITH GOOGLE  
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STRIPE PAYMENTS (NEED BANK DETAILS)