

1. Project File Structure

This structure separates concerns for better maintainability and scalability.

```
text

operari-website/
├── public/
│   ├── index.html
│   ├── assets/
│   │   ├── css/
│   │   │   └── styles.css
│   │   ├── js/
│   │   │   └── script.js
│   │   └── images/ (if adding custom assets later)
├── README.md
└── .gitignore
```

2. public/index.html

This file contains the semantic HTML structure and links to the external assets.

</> HTML

3. public/assets/css/styles.css

This file contains all the styling, variables, and responsive queries.

4. public/assets/js/script.js

This file modularizes the JavaScript logic into a clean IIFE pattern, handling routing, UI interactions, and form validation.

5. Technical Documentation (README.md)

This documentation covers the coding standards, architecture, and deployment instructions.

Operari Website – Technical Documentation

1. Overview

This is the production release of the Operari corporate website. It is a Single Page Application (SPA) designed for high performance, accessibility, and ease of maintenance.

2. Tech Stack

- **HTML5:** Semantic HTML5 structure
- **CSS3:** Modern CSS3 with Flexbox and Grid. No external CSS frameworks
- **JavaScript (ES6):** Vanilla JavaScript (ES6). No frameworks (React, Vue, etc.) to ensure maximum performance and minimal dependencies

Libraries:

- Font Awesome 6.4.0 (Icons)
 - Google Fonts (Inter)
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3. Coding Standards & Architecture

3.1 Modular Architecture

The codebase is separated into three main concerns to improve scalability and debugging:

- **index.html:** Structure and content
 - **css/styles.css:** Styling, animations, and responsiveness
 - **js/script.js:** Application logic, state management, and event handling
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3.2 Naming Conventions

- **Files:** kebab-case (e.g., styles.css, script.js)
 - **Classes:** kebab-case with hyphens (e.g., card-3d-wrapper)
 - **Variables:** camelCase (e.g., currentPage)
 - **Constants:** UPPER_SNAKE_CASE (e.g., ROOT_URL)
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3.3 State Management

The application state is encapsulated within the `App` object in `script.js`. This prevents global namespace pollution and allows for easier debugging (e.g., `App.state.currentPage`).

3.4 Performance Optimisations

- **CSS Hardware Acceleration:** Animations use `transform` and `opacity` properties instead of `top`, `left`, `width`, or `height`
 - **Passive Event Listeners:** Used where appropriate
 - **Lazy Loading:** Images are loaded via standard browser lazy-loading or placeholders
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4. Backend & APIs

- **Current Implementation:** Static site
- **Backend:** None (static HTML)
- **APIs:** None
- **Data Persistence:** Client-side session state only (routing history)

Future Integration:

If dynamic functionality (e.g., backend contact forms) is required, the modular `script.js` structure allows easy integration with Fetch API calls to endpoints without rewriting the entire logic block.

5. Deployment Instructions

5.1 Getting a Shareable URL (GitHub / GitLab / Netlify)

To make the website publicly accessible, follow one of the options below.

Option A: Netlify Drop (Easiest for Static Sites)

1. Compress the `public` folder into a ZIP file (e.g., `operari-site.zip`).
2. Go to `app.netlify.com/drop`.
3. Drag and drop the ZIP file.
4. Netlify will provide a random URL (e.g., `https://operari-site.netlify.app`), which can be used as-is or updated via DNS.

Result: A shareable URL is created instantly.

Option B: GitHub Pages

1. Create a new repository on GitHub (e.g., `github.com/yourusername/operari-website`).
2. Upload the file structure provided in this release.
3. Go to **Settings → Pages**.
4. Select the **main** branch as the source and save.

Result: The site will be live at

`https://yourusername.github.io/operari-website/`

Option C: Deploy to www.operari.co.uk

1. Build the site locally (if a build step exists; otherwise, the HTML is already built).
 2. Upload the contents of the `public` folder to your hosting provider's `public_html` or `www` directory via FTP or SFTP (e.g., cPanel, Plesk, AWS S3).
 3. **DNS Configuration:** Ensure your domain A record points to your host's IP address.
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5.2 Browser Compatibility

- Chrome / Edge (Recommended)
 - Firefox
 - Safari
 - Mobile browsers (iOS Safari, Chrome Mobile)
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5.3 Maintenance

To update content:

- Edit `index.html` for structural changes
 - Edit `css/styles.css` for visual updates
 - Edit `js/script.js` for logic changes
 - Upload the modified files to your hosting provider
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5.4 Local Development (Pre-launch)

1. Download the files.
2. Use a local server (e.g., VS Code Live Server extension) to open `index.html`.
3. Test routing and responsiveness locally before deployment.