**DEVELOPMENT**

1. **Design & Structure**
   * Create a responsive multi-page website (Home, Gallery, About, Contact).
   * Use clean, mobile-friendly layouts (HTML + CSS + JavaScript).
2. **Preloader Video**
   * Design a logo animation video (MP4, under 10s).
   * Add it as a preloader splash screen using HTML + CSS + JS.
   * Make it responsive and skip/auto-remove after load.
3. **Gallery Display**
   * Add a grid or carousel (use CSS Grid/Flex or libraries like Swiper.js).
   * Enable **lazy loading** for all images.
   * Use .webp or .avif image formats.
4. **Image Download Protection (Light)**
   * Disable right-click using JavaScript.
   * Add a transparent overlay over gallery images.
   * Use background images instead of <img> tags if needed.
5. **Contact Form**
   * Use Formspree, Netlify Forms, or Google Forms to capture contact.
   * Use input validation and spam protection (honeypot or CAPTCHA).
6. **Navigation**
   * Smooth scroll, mobile menu (hamburger for small screens).
   * Highlight active page/section.

**💾 OPTIMIZATION & STORAGE**

1. **Image Optimization**
   * Compress all images using:
     + [TinyPNG](https://tinypng.com/)
     + [Squoosh](https://squoosh.app/)
   * Convert to .webp or .avif.
2. **External Hosting for Assets (Optional)**
   * Host heavy images/videos on:
     + [Cloudinary](https://cloudinary.com/)
     + Firebase Storage
     + Imgur (for public, read-only use)
3. **Lazy Load Images**
   * Add loading="lazy" to all <img> tags.
4. **Minify Assets**

* Minify CSS/JS/HTML for performance.
* Use tools like:
  + [Minifier.org](https://minifier.org/)
  + Build tools (optional): Vite, Parcel, or Webpack

**🌐 DEPLOYMENT**

1. **Domain Setup**

* Connect your paid domain to GitHub Pages (via CNAME).

1. **GitHub Pages Hosting**

* Host your static site (HTML/CSS/JS only).
* Push your code to main branch or use gh-pages branch.
* Keep repo under 100MB by externalizing large assets if needed.

1. **Open Source Best Practices**

* Add a README.md
* Include a LICENSE file (MIT or Creative Commons).
* Keep code clean and well-commented.
* Optional: Add a CONTRIBUTING.md if open to contributors.

**🔒 SECURITY BASICS**

1. **Content Protection**

* Disable right-click.
* Obfuscate image file paths if possible.
* Use robots.txt to prevent image crawling.
* Keep your repo public but watermark portfolio images lightly.

1. **Contact Form Security**

* Use CAPTCHA or a honeypot field.
* Avoid exposing email addresses directly.

**📋 OPTIONAL FEATURES**

1. **SEO & Analytics**

* Add meta tags and alt attributes.
* Use Google Analytics or Plausible (free tier).
* Add favicon, social preview tags.

1. **Animations & Effects**

* Use GSAP, Framer Motion, or AOS for transitions.
* Add hover/fade-in effects for photos.

1. **Accessibility & Performance Testing**

* Use Lighthouse to audit your site.
* Ensure keyboard navigation and screen-reader support.