**1. WEBSITE FEATURES & REQUIREMENTS**

**Core Requirements:**

* Multi-page website (e.g., Home, Portfolio, About, Contact)
* High-resolution photo galleries
* Mobile responsive
* SEO optimized
* Aesthetic, modern design
* No image downloads (prevent right-click/save)
* Custom domain
* Open-source friendly

**🔧 2. TOOLS AND STACK (Budget-friendly & Open-source)**

| **Area** | **Tool / Tech** | **Cost** | **Purpose** |
| --- | --- | --- | --- |
| **Frontend** | HTML, CSS, JavaScript | Free | Static, fast loading |
| **Framework** | Bootstrap / Tailwind CSS | Free | Responsive design |
| **Gallery Plugin** | Lightbox2 / PhotoSwipe | Free | Photo display with overlay |
| **Image Protection** | Custom JS + CSS | Free | Disable right-click, drag |
| **Hosting** | GitHub Pages | Free | Static website hosting |
| **Domain** | Your custom domain | Paid | Professional branding |
| **Form Handling** | Formspree / Google Forms / Netlify Forms | Free tier | Contact forms |
| **Image Optimization** | TinyPNG / Squoosh | Free | Compress images for web |
| **SEO Tools** | Meta tags, Open Graph, Sitemap | Free | Better search visibility |
| **Analytics** | Plausible (open-source), GoatCounter, or Google Analytics | Free tier | Visitor tracking |
| **Version Control** | Git + GitHub | Free | Code management |
| **Deployment CI/CD** | GitHub Actions (optional) | Free | Auto deploy site on update |

**🔒 3. IMAGE PROTECTION STRATEGIES**

**Note**: No method can *completely* stop image theft, but you can deter casual downloads.

* Disable right-click (oncontextmenu="return false")
* Disable drag with CSS: img { pointer-events: none; }
* Use watermarks (semi-transparent logo)
* Display images via <div> background instead of <img> tags
* Use lazy load + blurred placeholder until fully loaded
* Use JS obfuscation (optional)

**🌐 4. GITHUB PAGES + CUSTOM DOMAIN SETUP**

1. **Create GitHub Repository**
   * Structure your site in folders (e.g., /about, /portfolio, /css, /js)
2. **Push Code**
   * Push HTML/CSS/JS to your GitHub repo.
   * Enable GitHub Pages from Settings > Pages
3. **Link Custom Domain**
   * In GitHub Pages, add your domain.
   * Update your domain DNS settings:
     + Add an A record pointing to GitHub IPs.
     + Add a CNAME file in repo with domain name.
4. **Use HTTPS**
   * GitHub Pages supports free HTTPS via Let’s Encrypt.

**🧩 5. FILE STRUCTURE EXAMPLE**

lua

CopyEdit

📁 root/

│-- index.html

│-- about.html

│-- portfolio.html

│-- contact.html

│-- /images/

│ └── watermarked-photos.jpg

│-- /css/

│ └── style.css

│-- /js/

│ └── protect.js

│-- CNAME

**💰 6. QUOTING THE PROJECT (Budget & Value)**

If you’re doing this for a client or pricing your own work, consider:

**Breakdown of Quote (Freelancer/Firm Pricing)**

| **Task** | **Est. Time** | **Rate (₹/hr)** | **Subtotal** |
| --- | --- | --- | --- |
| Requirement Analysis & Planning | 2 hrs | ₹500 | ₹1,000 |
| Design (Wireframe & UI Mockup) | 3 hrs | ₹500 | ₹1,500 |
| Frontend Development | 8–12 hrs | ₹500 | ₹4,000–₹6,000 |
| Image Optimization & Upload | 2 hrs | ₹500 | ₹1,000 |
| Security Features (JS/CSS tricks) | 2 hrs | ₹500 | ₹1,000 |
| Domain Integration & GitHub Pages Setup | 2 hrs | ₹500 | ₹1,000 |
| SEO, Forms, Analytics | 2 hrs | ₹500 | ₹1,000 |
| Testing + Cross-browser checks | 2 hrs | ₹500 | ₹1,000 |

**💰 Total Quote Estimate: ₹10,000–₹13,500**

You can scale this up or down based on design complexity, page count, and client expectations.

**📦 OPTIONAL ADD-ONS**

| **Add-On** | **Description** | **Estimated Extra** |
| --- | --- | --- |
| CMS Integration (e.g., Netlify CMS) | Edit without coding | ₹3,000 |
| Blog Section | Dynamic posts | ₹2,000 |
| Image Watermark Automation | Auto watermark via script | ₹1,000 |
| Photo Licensing Integration | Add pricing/buy options | ₹2,000 |

**✅ FINAL DELIVERABLES CHECKLIST**

* Fully responsive multi-page website
* Modern UI/UX (light/dark mode optional)
* Gallery with protected images
* Working contact form
* SEO optimized meta tags and sitemap
* Deployed with GitHub Pages + HTTPS
* Custom domain mapped
* Documentation / ReadMe for open-source