```
. . .
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<meta name="theme-color" content="#1a365d">
<title>Security Business Website PRD</title>
<style>
 body {
  font-family: Arial, sans-serif;
  margin: 20px;
  line-height: 1.6;
  color: #333;
 h1, h2, h3 {
  color: #1a365d;
 pre {
  background-color: #f4f4f4;
  padding: 10px;
  border-radius: 5px;
  overflow-x: auto;
 }
 code {
  color: #d63384;
 ul {
  list-style-type: disc;
  padding-left: 20px;
 }
 .section {
  margin-bottom: 30px;
</style>
</head>
<body>
<h1>Product Requirements Document (PRD) for Security Business Website</h1>
<div class="section">
 <h2>1. Project Overview</h2>
 <strong>Objective:</strong> Build a mobile-first security business website with
modern tooling.
 <strong>Tech Stack:</strong>
 ul>
  Frontend: React + TypeScript + Tailwind CSS
  Build Tool: Vite
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Testing: Vitest + Testing Library
  Deployment: GitHub Pages
 <strong>Design Reference:</strong> <a href="https://4d212b8c-2c6a-4849-86ac-
402c15600ce4-00-whhbi2lg9v6b.riker.replit.dev">Styling & Layout Guide</a>
</div>
<div class="section">
 <h2>2. Development Environment Setup</h2>
 <h3>2.1 Prerequisites</h3>
 ul>
  Node.js v18+ (for npm scripts and tooling)
  Git
  GitHub Account
 <h3>2.2 Initialize Project</h3>
 <code>
mkdir security-business-website
cd security-business-website
git init
npm init -y
 </code>
</div>
<div class="section">
 <h2>3. Core Dependencies</h2>
 <h3>3.1 Install Dependencies</h3>
 <code>
# Frontend
npm install react react-dom react-router-dom @emailjs/browser axios framer-motion
react-helmet react-hook-form @hookform/resolvers yup tailwindcss @headlessui/react
react-icons
# TypeScript
npm install typescript @types/node @types/react @types/react-dom @types/react-
router-dom @types/axios @types/react-helmet --save-dev
# Build & Tooling
npm install vite @vitejs/plugin-react prettier eslint eslint-config-prettier husky lint-
staged --save-dev
# Testing
npm install @testing-library/react @testing-library/jest-dom @testing-library/user-
event vitest --save-dev
# Deployment
npm install gh-pages --save-dev
```

```
</code>
 </div>
 <div class="section">
 <h2>4. Project Configuration</h2>
 <h3>4.1 TypeScript Config</h3>
 <code>
 "compilerOptions": {
 "target": "ES2020",
 "lib": ["ES2020", "DOM", "DOM.Iterable"],
 "module": "ESNext",
 "strict": true,
 "jsx": "react-jsx",
 "baseUrl": ".",
 "paths": { "@/*": ["src/*"] }
},
 "include": ["src"]
 </code>
 <h3>4.2 Tailwind Config</h3>
 <code>
module.exports = {
 content: ["./src/**/*.{ts,tsx}"],
theme: {
 screens: { sm: "640px", md: "768px", lg: "1024px" },
 colors: { primary: "#1a365d", secondary: "#2d3748" }
},
 plugins: [require("@tailwindcss/aspect-ratio")]
 </code>
 <h3>4.3 Vite Config</h3>
 <code>
import { defineConfig } from 'vite';
import react from '@vitejs/plugin-react';
export default defineConfig({
 plugins: [react()],
 base: "/security-business-website/" // Match GitHub repo name
});
 </code>
 </div>
 <div class="section">
 <h2>5. Project Structure</h2>
 <code>
security-business-website/
```

```
⊢— src/
     – assets/
                 # Images, fonts, global CSS
      - components/
                     # Reusable components
      - pages/
                 # Page components
      services/ # API/EmaiUS integration
      - App.tsx
                 # Root component
     - main.tsx
                 # Entry point
   - public/
                # Static assets
 — github/workflows/ # CI/CD (optional)
                    # Environment variables
 --- .env.example
 — package.json
tsconfig.json
 </code>
</div>
<div class="section">
 <h2>6. Implementation Steps</h2>
 <h3>6.1 Setup Mobile-First Meta Tags</h3>
 <code>
<meta name="viewport" content="width=device-width, initial-scale=1.0"&gt;
<meta name="theme-color" content="#1a365d"&gt;
 </code>
 <h3>6.2 Create Core Components</h3>
 Follow the component structure from the <a href="https://4d212b8c-2c6a-4849-
86ac-402c15600ce4-00-whhbi2lg9v6b.riker.replit.dev">design reference</a>,
including:
 ul>
  Responsive navigation (<code>MobileNav.tsx</code>)
  Contact form with validation (<code>ContactForm.tsx</code>)
  Image gallery with lazy loading (<code>ImageGallery.tsx</code>)
 <h3>6.3 Routing</h3>
 <code>
import { BrowserRouter, Routes, Route } from 'react-router-dom';
import { HomePage, AboutPage, ServicesPage } from './pages';
const App = () => (
<BrowserRouter&gt;
 <Routes&gt;
  <Route path="/" element={&lt;HomePage /&gt;} /&gt;
  <Route path="/about" element={&lt;AboutPage /&gt;} /&gt;
  <Route path="/services" element={&lt;ServicesPage /&gt;} /&gt;
 </Routes&gt;
</BrowserRouter&gt;
);
 </code>
</div>
```

```
<div class="section">
 <h2>7. EmaiUS Integration</h2>
 <h3>7.1 Environment Variables</h3>
 <code>
#.env
VITE_EMAIL_SERVICE_ID=your_service_id
VITE EMAIL TEMPLATE ID=your template id
VITE_EMAIL_PUBLIC_KEY=your_public_key
 </code>
 <h3>7.2 Email Service</h3>
 <code>
import emailjs from '@emailjs/browser';
export const sendEmail = async (params: EmailParams) => {
 await emailjs.send(
 import.meta.env.VITE_EMAIL_SERVICE_ID,
 import.meta.env.VITE_EMAIL_TEMPLATE_ID,
 params,
 import.meta.env.VITE_EMAIL_PUBLIC_KEY
);
};
 </code>
 </div>
 <div class="section">
 <h2>8. Testing</h2>
 <h3>8.1 Example Test</h3>
 <code>
import { render, screen } from '@testing-library/react';
import Button from '../common/Button';
test('renders button', () => {
 render(<Button variant="primary"&gt;Click Me&lt;/Button&gt;);
 expect(screen.getByText(/click me/i)).toBeInTheDocument();
});
  </code>
 </div>
 <div class="section">
 <h2>9. Deployment to GitHub Pages</h2>
 <h3>9.1 Configure package.json</h3>
 <code>
 "scripts": {
 "dev": "vite",
 "build": "tsc && vite build",
```

```
"predeploy": "npm run build",
 "deploy": "gh-pages -d dist"
 "homepage": "https://[your-github-username].github.io/security-business-website"
}
 </code>
 <h3>9.2 Deployment Steps</h3>
  Push code to GitHub repository.
  Run:
   <code>npm run deploy</code>
  Enable GitHub Pages in repo settings (<code>Settings > Pages > Branch: gh-
pages</code>).
 </div>
 <div class="section">
 <h2>10. Post-Deployment Checklist</h2>
 ul>
  Test responsive design on mobile/desktop.
  Validate SEO meta tags using <a href="https://search.google.com/test/rich-</a>
results">Google Rich Results Test</a>.
  Ensure EmaiUS integration works in production.
  Add analytics (e.g., Google Analytics).
 </div>
 <div class="section">
 <h2>11. Maintenance</h2>
 ul>
  Use GitHub Issues for bug tracking.
  Enable Dependabot for dependency updates.
  Add CI/CD pipeline for automated testing/deployment.
 </div>
 <script>
 window.onload = function() {
  const { jsPDF } = window.jspdf;
  const doc = new jsPDF();
  doc.autoTable({ html: '#content' });
  doc.save('PRD.pdf');
 };
 </script>
```

```
<script
src="https://cdnjs.cloudflare.com/ajax/libs/jspdf/2.5.1/jspdf.umd.min.js"></script>
</body>
</html>
```