**Prompt: Build the Phen AI Website (Animated, Elegant, Production-Ready)**

**Brand:** Phen AI  
**Tone:** Elegant, modern, confident, precise.  
**Overall goal:** A non-static, animation-rich website that looks like months of meticulous design and engineering went into it. Smooth, meaningful motion—not gimmicks. Performance and accessibility first.

**Global Requirements**

1. **Framework & Libraries**
   * Tech stack: Next.js (App Router), TypeScript, Tailwind CSS, shadcn/ui for primitives, Framer Motion for micro-interactions, GSAP for complex scroll timelines, Locomotive Scroll (or smooth-scroll polyfill) for smooth scrolling on desktop, and Lottie for lightweight vector animations where helpful.
   * Code exportable as a full repo (no vendor lock-in). Clean component architecture with /components, /lib, /content, /app/(routes).
2. **Header (All Pages)**
   * Persistent sticky header, subtle translucent blur on scroll.
   * Left: **Logo icon** (SVG) + **Phen AI** wordmark text (horizontal lockup).
   * Right: **Nav items** (Home, Industries, Technology, About, Blog, Contact Us). “Contact Us” is the **rightmost** item and styled as a high-contrast button.
   * Hover/focus states: underline slide, slight scale (Framer Motion), focus rings for accessibility.
   * Mobile: collapsible menu (animated slide-down), Contact button remains visible.
3. **Footer (All Pages)**
   * 3 columns: (1) Brand + short descriptor, (2) Quick Links (same nav + Privacy/Terms), (3) Contact details (email, phone, address, social icons).
   * Bottom bar: © year, Phen AI. Subtle scroll-to-top button with spring motion.
4. **Design Language**
   * **Color palette (elegant, high-end)**
     + Primary: Deep Ink #0B0F19
     + Accent 1: Emerald #10B981 (controlled use for CTAs/highlights)
     + Accent 2: Royal Blue #3B82F6 (secondary highlights, links)
     + Neutrals: Slate #111827, #1F2937, #374151, #9CA3AF, #F3F4F6
     + Background: Off-Black gradient to Deep Ink
     + Optional subtle gradient overlays; avoid neon unless purposeful.
   * **Typography:**
     + Headings: High-contrast serif or refined geometric sans (e.g., “Editorial New”/“Playfair Display” OR “Sora”/“Poppins”).
     + Body/UI: Humanist sans (e.g., “Inter” or “Satoshi”).
     + Careful hierarchy, generous line-height, optical margins on hero text.
   * **Imagery/Graphics:** Abstract tech textures, tasteful glassmorphism panels, soft shadows, subtle grain. No stocky clichés.
   * **Dark mode:** Default dark theme with accessible contrast; provide light mode toggle.
5. **Motion Principles**
   * Motion should communicate structure: reveal content, guide attention, and signify interactions.
   * Use GSAP timelines for hero sequences and scroll-linked reveals; Framer Motion for component-level interactions (hover, taps, list stagger).
   * Respect prefers-reduced-motion: offer static fallbacks and shorter durations.
6. **Routing & URL Map**
   * / (Landing)
   * /industries (grid) → /industries/{industry-slug} (6 detail pages)
   * /technology (services + atom visualization)
     + /technology/services/{service-slug} (3 pages)
     + /technology/{technology-slug} (5 pages)
   * /about
   * /blog → /blog/{post-slug}
   * /contact
   * Include breadcrumbs on all subpages.
7. **CMS Content Models (headless or local MDX)**
   * Industry: title, slug, heroImage, shortTagline, overview, useCases[], caseStudies[], technologies[], CTA.
   * Service: title, slug, icon, summary, detailedSections[], processSteps[], CTA.
   * Technology: title, slug, icon, shortDescription, longDescription, applications[], relatedServices[], CTA.
   * BlogPost: title, slug, author, date, heroImage, summary, content, tags[].
   * TeamMember: name, role, headshot, bio, socials.
   * SiteSettings: nav, footer, SEO defaults (title/description/OG).
8. **SEO & Analytics**
   * Per-page meta, semantic HTML, structured data (Organization, BlogPosting), XML sitemap, robots.txt.
   * OpenGraph/Twitter cards.
   * Integrate analytics (e.g., Plausible/GA4) and event tracking for CTA clicks, form submissions, slider interactions.
9. **Performance**
   * Image optimization (Next/Image), SVG icons, code splitting, lazy loading for heavy sections, prefetch links on hover.
   * LCP under 2.5s on 4G; CLS < 0.1; ship < 200KB JS on first load where feasible.
10. **Accessibility**
    * Keyboard navigable, focus order, ARIA for sliders/carousels, color contrast AA+, alt text for images, skip-to-content link.

**Page Specifications**

**1) Landing Page /**

**Hero (Premium Interactive Gallery)**

* Full-width, above the fold. Central **circular gallery** with 6 images orbiting or arranged in a ring.
* **Interaction:** Every 3–4s, the active image “flips like a playing card” on its own axis (3D transform with perspective) while the ring rotates subtly.
* **Text in the center of the circle** changes synchronously with each flip (crossfade + letter-by-letter reveal).
* Include pagination dots and manual drag/scroll controls; keyboard accessible.
* Copy examples for center text:
  + “AI, engineered for impact.”
  + “VR/AR that teaches and persuades.”
  + “On-prem intelligence for regulated industries.”
* CTA pair: **Primary:** “Schedule a Consultation” | **Secondary:** “Explore Our Work”

**Vision Section**

* Elegant statement block with subtle parallax background.
* Short two-line combined vision/mission statement. Gentle fade-up on scroll.

**Signature Scroll Effect (Gap Reveal)**

* Line: We are ( ) Phen AI displayed with a **thin gap** between parentheses.
* As the user **scrolls**, the gap **expands** to reveal a **background image** “opening” from the gap (GSAP clip-path or mask), with overlay text appearing: **“Not just an AI company”** (slide/fade).
* The collapsed state reappears when scrolling back up.

**Services, Industries, Innovation Areas (Landing Summaries)**

* **Services (3 cards):** Icon + concise description + “Learn More” links to each Service page under /technology/services/{slug}. Staggered reveal on scroll.
* **Industries (slider with 6 image slides):** Each slide = industry hero image, short line, CTA to its page; autoplay with gentle momentum, hover pause, keyboard accessible.
* **Innovation Areas (3–6 tiles):** Distinctive illustrations with short blurbs and “Explore” links (can deep-link to relevant Service/Technology/Industry combos).

**Final CTA Band**

* Large, confident CTA with micro-particles subtly drifting (Lottie), prominent “Let’s Build Something Phenomenal”.

**2) Industries Index /industries**

* **Animated grid** (2–3 columns desktop, 1–2 mobile) of **6 industries.**
* Each card: image + gradient overlay + title + short tagline; on hover, image tilts slightly in 3D and a “View Industry” button slides in.
* Clicking a card routes to /industries/{industry-slug}.

**Industry Detail Template /industries/{slug}**

* Hero: industry image with layered depth (foreground abstract lines parallax), breadcrumb, title, concise positioning statement.
* Sections:
  + **Overview** (benefits & outcomes).
  + **Use Cases** (animated list with icons, staggered).
  + **Our Approach** (3–5 steps with progress timeline animation).
  + **Related Technologies/Services** (chips linking to /technology/{tech} and /technology/services/{service}).
  + **Mini Case Study** (metrics animating count-up).
  + CTA: “Discuss your industry use case”.

Build 6 such pages (one per industry), using consistent structure and unique imagery.

**3) Technology Page /technology**

**Top Section: Services**

* 3 elevated cards with icons and brief descriptions. On click, route to /technology/services/{service-slug}.
* Hover animation: card lifts, background gradient shifts subtly, CTA chevron animates.

**Atom Visualization (5 Technologies)**

* Center: **Nucleus** = Phen AI logo inside a soft glassmorphism orb.
* **Five orbiting particles** (badges) revolve around the nucleus on layered orbits at different speeds (GSAP loop).
* Each particle displays the technology name; **on hover or focus**, the orbit pauses, a **popover panel** appears with:
  + Short paragraph (80–120 words) explaining the technology.
  + “Learn More” button linking to /technology/{technology-slug}.
* Touch devices: tap to expand panel; tap outside to close. Respect reduced-motion.

**Service Detail Template /technology/services/{slug}**

* Hero with service icon and statement.
* Sections: What’s included, Process (stepper), Deliverables list, Tooling & stacks (icons), Sample timeline, Pricing note (optional), CTA.

**Technology Detail Template /technology/{slug}** (5 pages total)

* Hero with animated technical motif.
* Sections: What it is, Why it matters, Where we apply it (industry cross-links), Case blurb, FAQ accordion, CTA.

**4) About Page /about**

* **Company story** with tasteful timeline animation.
* **Vision & Mission** block (the same two-line statement echoed, with an animated underline flourish).
* **Team section:** masonry grid of team members with hover reveal (role + socials), click to open modal with bios.
* Optionally a **Values** strip (icons + one-liners).
* CTA to Contact.

**5) Blog Index /blog**

* 6 posts initially, **list-style** with image thumbnails on the left and title/excerpt/meta on the right (responsive to stacked on mobile).
* Infinite scroll OR paginated. Each list item animates in with subtle slide/fade.
* Search and tag filters.
* Clicking goes to /blog/{post-slug} with hero image, clean reading width, reading time, share buttons, next/prev posts.

**6) Contact Page /contact**

* **Two-column hero section:**
  + **Left:** Embedded muted looping **video** (hosted or local) demonstrating product experiences; rounded corners, soft glow, play/pause control with accessible labels.
  + **Right:** **Contact form** (Name, Email, Company, Project type dropdown, Budget range, Message). Realtime validation; success state animates to a thank-you message.
* **Below:** Company details: email link, phone, registered address, Google Maps embed (styled), business hours.
* Integrate spam protection and send submissions to email + store in CMS/DB.

**Micro-interactions & Details to Include**

* Buttons: ripple or underline sweep; pressed state depth change.
* Links: subtle underline grow on hover.
* Cards: gentle 3D tilt following cursor (bounded).
* Sliders: inertia, snap, and focusable controls with aria-labels.
* Form inputs: floating labels, valid/invalid states, descriptive errors.
* Lazy-loaded sections fade in as they enter viewport (staggered).
* Subtle particle fields or gradient noise behind key sections to add richness.

**Copy Placeholders (edit in CMS)**

* **Hero taglines (rotate in center circle):**
  1. “Confident AI. Practical outcomes.”
  2. “Immersive training that sticks.”
  3. “On-prem intelligence for regulated teams.”
  4. “Vision systems that see what matters.”
  5. “Data pipelines that scale with you.”
  6. “Phenomenal results, engineered.”
* **Vision/Mission (2 lines):**  
  “We design intelligence you can trust—elegant systems that deliver measurable value.  
  Not just an AI company—your engineering partner for lasting impact.”
* **CTA texts:** “Schedule a Consultation”, “Explore Our Work”, “Talk to an Expert”, “Start Your Project”.

**Navigation, Connections & Breadcrumb Logic**

* Header nav links to top-level pages; industry cards link to their detail pages; services link to service detail pages; atom particles link to technology detail pages.
* On industry pages, related technologies/services cross-link back to /technology and vice-versa.
* Breadcrumbs:
  + Home › Industries › {Industry}
  + Home › Technology › Services › {Service}
  + Home › Technology › {Technology}

**Deliverables & Acceptance Criteria**

* Pixel-perfect implementation of all sections above.
* Smooth, meaningful animations that feel hand-crafted; all interactive elements accessible.
* Fully responsive (320px–4K+), tested on modern browsers.
* Lighthouse: Performance ≥ 90, Accessibility ≥ 95, Best Practices ≥ 95, SEO ≥ 95 on key pages.
* Exportable source code with clear README (how to run, build, edit content).
* CMS collections set up as specified, with seed content for 6 industries, 3 services, 5 technologies, 6 blog posts, and team members.
* Analytics and SEO configured, sitemaps generated.

**Content to Seed (placeholders you can swap later)**

* **Industries (6):** Agriculture, Ed-Tech, Legal, Finance, Supply Chain, Renewables.
* **Services (3):** AI-Powered MVP & Product Development; Immersive Experience Development; Custom Automation & On-Prem AI Solutions.
* **Technologies (5):** AI & ML; Data Engineering; VR/AR; Computer Vision; On-Prem AI Models.
* **Innovation Areas (examples):** PEBC OSPE VR AI Prep; Computer-Vision Disease Detection & Yield Estimation; Confidential On-Prem Analytics.

**Testing Checklist**

* Keyboard-only navigation across hero gallery, industry slider, atom visualization, accordions, and forms.
* Reduced-motion mode disables orbiting and converts flips to fades.
* All routes resolve; 404 styled and helpful.
* Form submission works (email + DB), with success/failure states.

**Build this exactly as specified. Prioritize craft, motion, and clarity. The result should feel bespoke, elegant, and technically sophisticated—undeniably “Phen AI.”**