

# Fullstack Internship Assignment — Problem Statement

**Note:** The use of AI models such as ChatGPT or any similar AI-based code generation tools is strictly prohibited for this assignment. The purpose of this task is to evaluate your personal understanding and problem-solving skills. Any indication of AI-generated code may lead to disqualification.

## Overview

We're excited to see your full-stack skills, mainly frontend in action! For this assignment, your task is to **recreate a simplified version of a product landing page** inspired by [Apple's iPhone 16 Pro page](#). It should NOT be a pixel-perfect replica, the goal is to **demonstrate your ability to build an elegant, interactive, and responsive frontend experience** using **Next.js**, **Tailwind CSS**, and optionally **Shadcn UI** or any other useful UI/animation libraries.

---

## Problem Statement

**Create a product-focused landing page for a fictional tech product** (feel free to name it creatively) that captures the spirit and feel of Apple's product pages. Your version should:

---

## Must-Have Requirements:

### Design & Layout

- Use **Next.js** (App Router preferred) and **Tailwind CSS** for structure and styling.
- Keep the design clean, modern, and responsive across all devices.
- Implement **scroll-based animations** (e.g., fade-ins, parallax sections, smooth transitions).
- Use **beautiful typography** and spacing inspired by minimalist design principles.

### Interactivity & UX

- Add subtle **hover effects** and **micro-interactions** to bring the UI to life.
- Implement a **page loader** (on initial load) that smoothly transitions to the main content.

- Include at least **one interactive component** (product color selector, feature slider).

### **Technical Features**

- Use **client-side state management** (can be React's built-in state or context, no Redux needed).
- Use **dynamic routes and layouts** in Next.js where applicable.
- Follow **best practices** for folder structure, naming, component reusability, and responsiveness.

### **Optional Nice-to-Haves**

- Use **Shadcn UI** for certain components like buttons or modals if it improves your workflow.
- Add **form validation** for a fake email subscription input (no backend needed).
- Light usage of libraries like **Framer Motion**, **GSAP**, or **Locomotive Scroll** is welcome.

---

### **Submission Guidelines:**

- Host the project on **GitHub** and share the **live demo link** (e.g., Vercel/Netlify).
- Write a short **README** explaining your decisions (e.g., animation tools used, structure, libraries).
- Deadline: **2 days from assignment received**.

---

### **What We're Evaluating**

- Your ability to build smooth, beautiful UIs using modern tools.
- Attention to detail in animations and interactions.
- Code quality, structure, and how you manage component/state complexity.
- Thoughtfulness in choosing tools and balancing simplicity with flair.

---

This assignment is **not about backend**—you may skip database or API integration unless you want to showcase something extra.

**Note:** The use of AI models such as ChatGPT or any similar AI-based code generation tools is strictly prohibited for this assignment. The purpose of this task is to evaluate your personal understanding and problem-solving skills. Any indication of AI-generated code may lead to disqualification.