

Internship Project Report

Kandid - Full Stack Developer Next.js Intern Assignment

September 10, 2025

Project Overview

This project replicates the Leads and Campaigns sections of the Linkbird.ai platform with a focus on accuracy, responsiveness, and usability. The app enables users to manage leads and campaigns effectively through a clean, intuitive interface. All functional and design requirements outlined in the internship assignment were implemented.

The live app is deployed and accessible here:

<https://kandid-linkbird-ukss.vercel.app/>

The source code is hosted on GitHub at:

<https://github.com/srikarpilla/kandid-linkbird.git>

Technology Stack

- Next.js 15+ (App Router) for frontend and backend framework
- Tailwind CSS & shadcn/ui for styling and reusable UI components
- PostgreSQL + Drizzle ORM for database and type-safe queries
- Better Auth for authentication with email/password and Google OAuth
- TanStack Query for asynchronous data fetching, caching, and infinite scrolling
- Zustand for managing UI and filter states locally

Feature Highlights

1. Authentication

- Login with email/password and Google OAuth enabled
- Registration with validation and proper error messages
- Protected routes with middleware redirecting unauthenticated users
- Session and logout functionality implemented
- Responsive, clean authentication interface

2. UI Layout & Navigation

- Collapsible sidebar with navigation items: Dashboard, Leads, Campaigns, Settings
- Active link highlighting and user profile section with logout button
- Header contains breadcrumbs reflecting current navigation location
- Consistent spacing, typography, and color scheme following branding

3. Leads Section

- Infinitely scrollable leads table with columns: Lead Name, Email, Company, Campaign, Status, Last Contact Date
- Search and filter functionality with debounced input for performance
- Loading skeletons while fetching data
- Detail side sheet showing full lead information and interaction history
- Smooth slide-in animation with accessible close options

4. Campaigns Section

- Campaigns table showing campaign name, status, leads count, success metrics, and progress bars
- Sortable and filterable columns to aid data exploration
- Color-coded status badges matching brand palette
- Action controls for editing, pausing, or deleting campaigns
- Campaign statistics summary cards with visual indicators

Technical Implementation Details

Database

- Designed with Drizzle ORM schemas for Users (via Better Auth), Campaigns, and Leads
- Optimized queries with indexes on key columns for performance

State Management

- Server state: TanStack Query handles fetching, caching, infinite scroll, optimistic updates
- Client state: Zustand manages sidebar, modals, filters, and selections
- React.memo and useMemo optimize re-renders

Performance & UX

- Loading and error states provide user feedback
- Accessible controls with keyboard interaction and ARIA attributes
- Responsive design optimized for desktop and mobile
- Hover states, transitions, and focus outlines consistent with UX best practices

Deployment

- Hosted on Vercel with CI/CD linked to GitHub repository
- Environment variables securely configured
- Live demo URL: <https://kandid-linkbird-ukss.vercel.app/leads>
- Verified full feature correctness in production

Challenges & Resolutions

- Drizzle ORM import conflicts resolved with correct package imports
- Turbopack root directory warning fixed via next.config.js
- ESLint configuration issues fixed by adding necessary plugins and extensions
- Infinite scroll optimized for performance and debounced filters implemented
- Side sheet accessibility improved with keyboard and click-outside handlers

Testing Considerations

- Manual testing of authentication and data CRUD flows
- Responsive UI tested across devices and screen sizes
- Basic unit tests on critical components (optional)
- Error boundaries to catch runtime issues gracefully

Future Enhancements

- Implement end-to-end tests for key user journeys
- Add real-time updates via websockets
- Enhance analytics dashboards with more metrics and insights
- Add multi-language support and localization

Summary

This project successfully fulfills the full stack Next.js internship assignment by delivering a scalable, performant, and user-friendly application replicating Linkbird.ai's Leads and Campaigns UI. The solution utilizes the specified tech stack, adheres to UI/UX guidelines, and is production-ready with CI/CD and deployment on Vercel.

Live demo URL: <https://kandid-linkbird-ukss.vercel.app/leads>

GitHub repository URL: <https://github.com/srikarpillla/kandid-linkbird.git>