Al SDK Ul Library

A comprehensive React component library for building Al-powered applications. Built with Next.js, TypeScript, and Tailwind CSS, featuring production-ready components optimized for Al/ML interfaces and data-rich applications.

├── Technology Stack

This library is built with:

Core Framework

- **Property Service** Mext.js 15 The React framework for production with App Router
- TypeScript 5 Type-safe JavaScript for better developer experience
- 💸 Tailwind CSS 4 Utility-first CSS framework for rapid UI development

Jul Components & Styling

- 🧩 shadcn/ui High-quality, accessible components built on Radix UI
- **© Lucide React** Beautiful & consistent icon library
- Framer Motion Production-ready motion library for React
- Next Themes Perfect dark mode in 2 lines of code

Forms & Validation

- React Hook Form Performant forms with easy validation
- Zod TypeScript-first schema validation

State Management & Data Fetching

- 🐰 Zustand Simple, scalable state management
- TanStack Query Powerful data synchronization for React
- mathematical Axios Promise-based HTTP client

Database & Backend

- Prisma Next-generation Node.js and TypeScript ORM
- **MextAuth.js** Complete open-source authentication solution

Advanced UI Features

- II TanStack Table Headless UI for building tables and datagrids
- DND Kit Modern drag and drop toolkit for React
- Recharts Redefined chart library built with React and D3
- **Sharp** High performance image processing

Internationalization & Utilities

- **Next Intl** Internationalization library for Next.js
- T Date-fns Modern JavaScript date utility library
- 🐍 ReactUse Collection of essential React hooks for modern development

Why This Library?

- Al-Optimized Components specifically designed for Al/ML application interfaces
- 🎨 Beautiful UI Built on shadon/ui with advanced interactions and animations
- Type Safety Fully typed with TypeScript and Zod validation
- Responsive Mobile-first design principles with smooth animations
- **II** Data-Rich Specialized components for charts, tables, and data visualization
- Nell Documented Comprehensive Storybook documentation with live examples
- 🗿 i18n Ready Multi-language support built-in
- **Performance** Optimized for production with tree-shaking and code splitting
- Shark mode and customizable theming out of the box
- 6 Accessible WCAG compliant components built on Radix UI

Quick Start

Development

```
# Install dependencies
yarn install

# Start Next.js development server
yarn dev

# Start Storybook component explorer
yarn storybook
```

- Next.js App: http://localhost:3000 Demo application
- Storybook: http://localhost:6006 Component documentation

Building

```
# Build Next.js app
yarn build:next

# Build Storybook
yarn build:storybook

# Build both
yarn build
```

Deployment to Vercel

This project is configured for single-project deployment to Vercel with path-based routing:

- Main app: Deployed at your root domain (e.g., yourapp.com)
- Storybook: Automatically available at /storybook path (e.g., yourapp.com/storybook)

Deploy Steps:

1. Push to GitHub - Commit and push your changes

```
git add .
git commit -m "Ready for deployment"
git push
```

2. Connect to Vercel

- Visit vercel.com and import your repository
- Vercel will auto-detect the Next.js framework
- 3. Configure Environment Variables (if needed)
 - Add any required environment variables in Vercel dashboard
 - o Include database connection strings, API keys, etc.

4. Deploy

- o Click "Deploy" Vercel will run yarn build which builds both Next.js and Storybook
- Your app will be live at your-project.vercel.app
- Storybook will be accessible at your-project.vercel.app/storybook

Using Vercel CLI:

```
# Install Vercel CLI globally
npm i -g vercel

# Deploy to preview
vercel

# Deploy to production
vercel --prod
```

Build Configuration:

The build process automatically:

- 1. Builds the Next.js application to next/
- 2. Builds Storybook to public/storybook/
- 3. Next.js serves Storybook static files from the public directory

| Both the main app and Storybook are deployed in a single Vercel project, simplifying deployment and management. |
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