Community Forums App Fullstack Documentation Generated on: May 15, 2025

## Overview:

A fullstack discussion forum platform built using Next.js 14 with App Router for frontend, Pages Router for API backend, Google OAuth2 via NextAuth.js, PostgreSQL as database, and Prisma ORM. Users can sign in, create forums, post comments, and interact in a discussion-thread-like interface.

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in a discussion-thread-like interface.
 Tech Stack:
Frontend & Backend:
- Next.js 14 (App Router)
- API Routes via Pages Router
- TypeScript
- Tailwind CSS
Authentication:
- NextAuth.js with Google OAuth2
Database & ORM:
- PostgreSQL
- Prisma
Project Structure:
/app
   /api
      /auth [...nextauth] # Google OAuth login/logout
      /forums
                             # Forum CRUD API
                             # Comment CRUD API
      /comments
   /forums
      [id]/page.tsx
                            # Forum detail page
      new/page.tsx
                             # Create forum form
                              # Home page (list of forums)
  page.tsx
/components
  AuthButton.tsx
                              # Google sign-in/sign-out button
   ForumCard.tsx
                              # Forum preview card
   CommentSection.tsx
                              # Comments UI for forums
/lib
  prisma.ts
                              # Prisma client instance
                              # NextAuth config
   auth.ts
/types
                              # Shared type definitions
   types.ts
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/prisma
                              # Database schema
   schema.prisma
middleware.ts
                                 # Middleware for protecting routes
 Features:
Authentication:
- Google OAuth via NextAuth.js
- Session-based login with client/server support
- Middleware to protect routes
Forums:
- Authenticated users can create and read forums
- View all forums and individual detail page
Comments:
- Authenticated users can comment on forums
- Comments displayed below each forum
Setup Instructions:
1. Clone & Install:
$ git clone https://github.com/your-username/community-forums.git
$ cd community-forums
$ npm install
2. Setup .env File:
DATABASE_URL=postgresql://user:pass@localhost:5432/forumsdb
NEXTAUTH_SECRET=your_secret
NEXTAUTH_URL=http://localhost:3000
GOOGLE_CLIENT_ID=your_google_client_id
GOOGLE_CLIENT_SECRET=your_google_client_secret
3. Setup DB:
$ npx prisma generate
$ npx prisma migrate dev --name init
4. Run Locally:
$ npm run dev
- Add missing dependencies in useEffect hooks to avoid lint warnings.
- Avoid using `any` type prefer using proper interfaces/types.
- Disable ESLint on build using:
  eslint: { ignoreDuringBuilds: true }
```

## Future Improvements:

- Search/filter forums
- Likes/upvotes
- Threaded replies
- Responsive enhancements
- Admin dashboard

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