Title: DebateHub, A platform for the Nuanced Discussion

**1. Problem Statement**

Modern social platforms often lack the depth and structure for meaningful discussions. DebateHub solves this by creating a platform for structured debates and discussions where users can post questions (debate topics) with 2 to 7 viewpoints (options). These debates are community-driven, allowing users to vote on options, express preferences, and engage meaningfully.

Key Features:

* Create debates with multiple viewpoints.
* Vote distribution visualized graphically.
* Search, filter, and sort debates.
* Social features like liking/disliking debates.
* Admin moderation for debates and user activity.

Outcome: Users experience a community-oriented space for nuanced debates, and admins ensure the platform remains well-regulated and engaging.

**2. Tech Stack**

**Frontend**: ReactJS (with Vite for enhanced development performance).  
**Backend**: Node.js with Express.js.  
**Database**: MongoDB for scalable and efficient data storage.  
**Template Engine**: EJS for dynamic rendering of pages (if necessary).

**3. External Libraries**

1. **bcrypt** (^5.1.1): For secure password hashing.
2. **cors** (^2.8.5): To handle Cross-Origin Resource Sharing, enabling the frontend to interact with the backend.
3. **dotenv** (^16.4.5): Manages environment variables securely.
4. **ejs** (^3.1.10): Template engine for rendering HTML with embedded JavaScript (optional for server-side rendering).
5. **express** (^4.21.2): Web framework for building RESTful APIs.
6. **express-validator** (^7.2.0): Middleware for input validation and sanitization.
7. **jsonwebtoken** (^9.0.2): For generating and verifying secure JSON Web Tokens (JWT).
8. **mongoose** (^8.8.1): ODM library for interacting with MongoDB.
9. **nodemailer** (^6.9.16): For sending emails, such as account confirmations or notifications.
10. **nodemon** (^3.1.7): Development tool for auto-restarting the server on code changes.