What the AI Should Do Next – MeshFund Development Guide

Your MeshFund mobile app is off to a great start. You’ve already built the core user interface using Expo and React Native — that’s like building the body of a car. Now, we need the engine (backend) and the wiring (API connections) to make everything run.  
  
Here’s what the AI assistant should do next to complete the app:

# 1. Create the Backend (API Server)

* - Create a folder called /api in your project
* - Set up an Express (Node.js) or tRPC server using TypeScript
* - Add routes for: /signup, /login, /create-group, /join-group, /make-payment, /get-history, /get-payout-status
* - Connect it to a PostgreSQL database using Prisma or Drizzle
* - Secure it using JWT tokens (like giving each user a key)

# 2. Connect the App to the Backend (API Services)

* - Create a services/ folder inside src/
* - Write helper files like authService.ts, groupService.ts, contributionService.ts, payoutService.ts
* - Use axios to send requests to your backend
* - Store user tokens securely and include them in headers

# 3. Set Up State Management (Brain of the App)

* - Create global store for user, group, token, payout status
* - Fetch and refresh data on app load
* - Update state after login, group join, contributions, etc.

# 4. Handle Real Actions (Logic + Rules)

* - Groups should lock when full
* - Contributions only once per cycle per user
* - Payout only after all members contribute
* - Apply timers and checks to enforce cycle rules

# 5. Add Real Services (Payments, Emails, SMS)

* - Integrate Stripe (or MoMo later) for contribution payments
* - Integrate SendGrid for sending confirmation and alert emails
* - Integrate Twilio for SMS reminders and alerts
* - Store keys securely using .env

# 6. Prepare for Launch

* - Use eas build to generate Android APK and iOS IPA files
* - Submit the app to Google Play Store and Apple App Store
* - Use expo publish for live updates without rebuilds
* - Deploy backend to cloud (Railway or Render)

# Summary (In Simple Words)

You built the house. The AI now needs to:  
1. Add the power and plumbing (backend)  
2. Connect the buttons to real actions (API services)  
3. Make the house remember things (state)  
4. Enforce the house rules (logic)  
5. Invite real-world tools (SMS, payments, email)  
6. Get the house listed on Airbnb (app stores)