MeshFund Frontend Logic & UI Design Guide

# 1. Project Structure

The frontend of MeshFund is built using React Native via Expo. It uses a modular folder structure to organize screens, components, state, and services.

/apps/mobile  
 /screens → Auth, Dashboard, Group, Contribution, Payout, Notifications  
 /components → Reusable UI components (Button, Input, Card)  
 /services → API integration (auth, group, contributions)  
 /contexts or /store → Zustand or Context API for state management  
 /navigation → App stack and tab navigators  
 App.tsx → Entry point

# 2. Navigation Flow

Using react-navigation with Stack and Tab navigators:

- Auth Stack:  
 → Splash → Login → Signup  
  
- Main App Stack (after login):  
 → Dashboard → Group → Contribution → Payout → Notifications → Settings

# 3. State Management

Use Zustand or React Context for managing app-wide state. Example state items:

* - Current user (token, ID, name)
* - Current group joined
* - Contribution status
* - Upcoming payout info
* - Unread notifications

# 4. API Integration

Each API module in /services handles a domain:

- authService.ts → login(), signup(), logout()  
- groupService.ts → createGroup(), joinGroup(), getGroupStatus()  
- contributionService.ts → makeContribution(), getContributions()  
- payoutService.ts → getPayoutStatus(), triggerPayout()  
- notificationService.ts → getNotifications()

These use Axios or fetch to talk to the backend, using JWT stored in AsyncStorage.

# 5. Screen Logic

## Login / Signup

Handles form validation, error messages, and stores token on success.

## Dashboard

Shows user’s groups, balance, next payout and quick actions.

## Group

Display group settings, members, rules, current cycle.

## Contribution

Form to submit a contribution. Shows payment status.

## Payout

Shows payout queue and current recipient. Triggers payout if applicable.

## Notifications

Displays list of alerts (due dates, payments, group updates).

## Settings

Profile info, logout, change password (optional).

# 6. UI Color Scheme & Design Aesthetic

MeshFund’s visual identity should reflect security, trust, collaboration, and financial empowerment.

Recommended Color Palette:

* - Primary: Deep Indigo (#3C3B6E) – signifies trust, authority, stability
* - Accent: Emerald Green (#50C878) – growth, money, prosperity
* - Background: Soft Cream (#FAF9F6) – neutral, clean, modern
* - Secondary Text: Slate Gray (#6B7280) – readability, softness
* - Interactive Elements: Gold Yellow (#FFD700) – action, energy, highlights

## Typography:

Use 'Inter' or 'Sora' fonts for a clean and modern aesthetic. Emphasize hierarchy between titles and body with varied font weights.

## Design Aesthetic:

Minimalist, warm, and mobile-first. Rounded corners, soft shadows, and plenty of whitespace. Prioritize accessibility and trust through consistency and clarity.

* - Designing the app logo and icon (abstract, grid-based, minimal yet expressive)
* - Developing the full brand kit: typography, color palette, UI system
* - Creating reusable design components and mockups in Figma
* - Designing screen layouts for all user flows (auth, dashboard, group logic, etc.)
* - Collaborating with developers to translate designs into React Native components
* - Preparing assets and screen previews for the App Store and Play Store listing