PROJECT TECHNICAL DOCUMENT: The MANAGER

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1. PROJECT OVERVIEW

"The MANAGER" is a web-based rewards platform with the following features:

- Users watch promotional YouTube videos and earn coins based on actual watch time.
- Coins can be used as **discounts** on an external shopping app/store.
- Users can track their balance, earnings, and redemptions via a simple wallet system.
- Admin can manage videos, coin distribution, role permissions, and shopping integrations via an admin panel.
- System supports multi-role accounts: **Admin, Sub-admin, Client, Vendor** with controlled permissions.

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2. CORE FEATURES & MODULES

2.1 USER ROLES & PERMISSIONS

Role	Permissions
Admin	Full control: manage all coins, users, videos, vendors, role settings, transfer toggles
Sub-admin	Can reward users manually; can send coins to selected roles as per admin toggle
Client	Can watch videos, earn coins, redeem them, and send to selected roles as per admin toggle
Vendor	Can receive coins and send to selected roles if enabled by admin

⛓️ **Role-Based Transfer Matrix with Toggle Buttons:**

Admin panel will have **individual transfer permission toggles** per role → per target:

Sender → Receiver	Admin	Sub-admin	Client	Vendor
Admin	✅	✅	✅	✅
Sub-admin	✅❌(admin controlled)	✅❌	✅❌	✅❌
Client	✅❌	✅❌	✅❌	✅❌
Vendor	✅❌	✅❌	✅❌	✅❌

Admin UI must provide **4 separate buttons for each role** (Sub-admin, Client, Vendor): - Allow sending to Admin ✅❌- Allow sending to Sub-admin ✅❌- Allow sending to Client ✅❌- Allow sending to Vendor ✅❌

These controls will dynamically show/hide the respective "Send Coin" buttons in user dashboards.

🔒 **Personal Transfer Blocking System**

In addition to role-based transfer permissions, the admin panel must also support: - **Per-user transfer control**: - Admin can **individually allow/block** coin transfer from/to any specific user (Client, Vendor, Sub-admin) - This overrides global role settings - Use Cases: - Block a user from sending coins to others (spam control) - Temporarily restrict vendor from receiving coins

Admin UI will include: - User list table → Action: "Block Coin Transfer" / "Allow Coin Transfer" (toggle) - Status indicator in user profile - All blocked transfer attempts must be logged with reason & timestamp

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2.2 USER AUTHENTICATION

- Login/Register via:
- Mobile OTP (preferred)
- Google Sign-in (optional backup)
- Backend: Firebase Authentication (recommended)
- Each user has:
- UID
- Phone/email
- Role (Admin / Sub-admin / Client / Vendor)
- Coin wallet
- Transaction history
- Transfer permission status (role-based + personal override)

2.3 VIDEO WATCH & REWARD SYSTEM

- Section: **Earn Coins**
- Admin uploads/adds video URLs (YouTube links)
- User watches video inside embedded YouTube player
- JS timer script tracks actual watch duration (not just play)
- Logic:
- 1 minute = 10 coins (configurable)
- Max coins per video: 50 coins (configurable)
- Minimum required view: 30 sec to start earning
- After completion:
- Coins added to wallet
- Transaction logged with: video ID, watch time, earned coins, timestamp

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2.4 USER WALLET SYSTEM

- Section: **My Wallet**
- Shows:
- Total coin balance
- Earned transactions
- Redeemed transactions
- Sent/received transfers (if enabled)
- Admin-side wallet controls:

- Manual coin add/subtract (including by sub-admin with limits)
- View all user histories
- Track monthly sub-admin limits
- Toggle transfer permissions individually (Admin/Sub-admin/Client/Vendor → each role)
- Toggle individual user's send/receive rights (override role)

2.5 SHOP & COIN REDEMPTION SYSTEM

- Section: **Shop & Redeem**
- External shopping link integration:
- Link to shopping app/website (like Amazon, your own shop, etc.)
- Coin discount system:
- User chooses how many coins to redeem (e.g., 100 coins = ₹100 off)
- A dynamic discount coupon is generated and shown
- Remaining payment done via UPI/card on shopping app
- Admin sets:
- Coin value (₹1 = 1 coin or custom)
- Max discount per order

2.6 ADMIN PANEL

- Secure login panel for super admin
- Features:
- Add/remove/manage YouTube video links
- View/manage user list & assign roles (Client, Vendor, Sub-admin)
- Manual coin transfer with history
- Enforce sub-admin limits (e.g., max 1000 coins per user/month)
- View/edit coin balances
- View all transactions (filters by date, user, type, sender/receiver)
- Toggle coin transfers individually for each sender → target role (per role pair)
- **Individually allow/block coin transfers for specific users**
- Set global coin logic (per minute coin, max per video)
- Add/Edit shopping link & coin-to-currency ratio

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3. TECHNOLOGY STACK

Component	Technology
Frontend	React.js / Next.js
Backend	Firebase Functions / Node.js
Database	Firebase Firestore or MongoDB
Auth	Firebase Auth (Phone OTP)
Hosting	Firebase Hosting / Vercel
Payments (optional)	Razorpay / Instamojo

4. USER FLOW SUMMARY

1. **User visits website** → Registers/logs in
2. **Goes to 'Earn Coins'** → Watches video → Coins credited based on watch time
3. **Checks 'My Wallet'** → Sees updated balance
4. **Goes to 'Shop & Redeem'** → Selects coins → Gets discount → Pays remaining amount externally
5. **User/Sub-admin/Vendor** → Sees "Send to Admin / Sub-admin / Client / Vendor" buttons as per permissions
6. **Admin logs into panel** → Manages users/videos/coins/settings/transfer permissions and individual blocks

5. OPTIONAL FEATURES (Future Phase)

- Referral system (Earn coins on invite)
- Daily login reward bonus
- Coin expiration system (e.g., 30 days validity)
- Leaderboard for top earners
- Coin withdrawal to gift cards or prepaid coupons
- Android app version (linked to same backend)

6. ESTIMATED DEVELOPMENT TIMELINE

Module	Time Estimate
Website UI/UX + Auth	4–6 days
Video tracking + rewards	4–6 days
Wallet system	3–4 days
Shop + Redeem	3–4 days
Admin panel	4–5 days
Testing & Deployment	2–3 days
Total Estimate	**\~20 days**

7. BUDGET ESTIMATE

Work Type	Approx. Cost (INR)
Website + Login	₹4,000 – ₹7,000
Coin system (watch + wallet)	₹5,000 – ₹8,000
Shop + Discount Logic	₹3,000 – ₹5,000

Work Type	Approx. Cost (INR)
Admin Panel	₹4,000 – ₹6,000
Total	₹16,000 – ₹25,000

Note for Developer:

- Ensure secure API communication
- Prevent fraud (no reward if tab hidden or video muted)
- All timestamps in IST
- Coin logic should be easily changeable from admin panel
- Role-based coin transfer permission must be toggleable per target role with individual buttons
- Per-user transfer permission (override role) must be available for admin to block/unblock transfers

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