Concept for the Micro Collection Partner (MCP) System

The **MCP System** will be a **mobile and web app** where an **MCP** (Micro Collection Partner) manages multiple **Pickup Partners** efficiently.

Key Features

1 MCP-Dashboard

- View **total balance** in wallet

- See all **Pickup Partners** and their status

- View **total orders, completed orders, and pending orders** of all pickup partners mapped with him

- **Add funds** to own wallet via UPI, bank transfer, etc and can transfer these funds to different mapped pickup partners for completing their orders. (When a pickup partner completes a customer's pickup request, amount is debited from his wallet and will be credited to customer's wallet)

- **Withdraw funds** (if needed)

2 Pickup Partner Management

- **Add/Delete** Pickup Partners

- Assign **roles and responsibilities**

- Set **commission or fixed payment per order**

- Track **active vs inactive partners**

3 Wallet & Transactions

- **MCP Wallet:** MCP can add money and distribute it

- **Pickup Partner Wallet:**

    o MCP can **add/subtract funds** from Pickup Partner's wallet

    o Track **earnings and deductions** per partner

- **Transaction History:** Full record of money flow

4 Order Management & Tracking

· **Assign Orders** to Pickup Partners

· Track **live order status** (Pending, In Progress, Completed)

· See **which partner is working on which order**

· **Auto-assign orders** based on location and availability

· Generate **daily/weekly reports**

5 Notifications & Alerts

· **Real-time updates** on order status

· Alerts for **low wallet balance**

· Notifications when a **partner completes an order**

6 Advanced Features (Optional)

● **AI-Powered Order Allocation:** Assign orders to partners based on availability & efficiency
● **GPS Tracking:** See real-time locations of Pickup Partners
● **Leaderboards:** Rank partners based on completed orders
● **Earnings Projection:** Show estimated monthly earnings

Tech Stack Recommendation

· **Frontend:** React Native (for mobile), React.js (for web)

· **Backend:** Node.js with Express / Python Flask

· **Database:** MongoDB

· **Payments:** Razorpay (optional)

· **Maps & Tracking:** Google Maps API (optional)

System Breakdown

1. **MCP App (For Micro Collection Partners)**

   Main Role: Manage Pickup Partners, orders, and wallet transactions.

Key Features:

1. **Dashboard** – Overview of earnings, partners, and orders
2. **Manage Pickup Partners** – Add, remove, and view partner performance
3. **Wallet Management** – Add/subtract funds for self & partners
4. **Order Assignment** – Manually or auto-assign orders to partners
5. **Order Tracking** – Track progress of each assigned order
6. **Notifications & Alerts** – Updates on payments, orders, and partner activity
7. **Reports & Analytics** – Earnings reports, order history, and efficiency tracking

2. Pickup Partner App

Main Role: Accept & complete assigned orders, track earnings.

Key Features:

1. **Dashboard** – See available orders, earnings, and completed tasks
2. **Order Management** – Accept/reject orders, update order status
3. **Wallet** – View earnings, withdrawals, and funds received from MCP
4. **Live Order Tracking** – Update status (In Progress, Completed)
5. **Location Integration** – Google Maps for navigation to customer locations
6. **Notifications** – New order alerts, payment updates, reminders
7. **Performance Stats** – Completed orders, ratings (if added)

How They Work Together

1. **MCP adds Pickup Partners** → Partners register via the **Pickup Partner App**

2. **MCP assigns orders** (or system auto-assigns)

3. **Pickup Partner gets notified & accepts order**

4. **Order completion updates reflect in MCP App**

5. **MCP pays Pickup Partner** via wallet, tracking all transactions