Multi-Level Partnership Distribution System

Objective

Develop a robust and scalable web-based application to automate the process of calculating and redistributing income in a multi-level partnership system for a coaching business in Australia. The application should provide real-time data visualization, be easily manageable, and offer high security. App will need to be functional in IOS and Andriod systems as well as all main web browsers.

Key Features

- User Registration and Login (Google, Facebook, IG and etc)
- Brand Customisation
- Real-time Income Calculation
- Role-Based Access (Admin, Partner)
- Team Structure Visualization
- Automated Income Redistribution
- Depth Level and Upline Tracking
- Dynamic Rule Configuration
- Reporting and Analytics
- Monthly Fee Tracking
- Stripe API Integration for Automatic Payments

Technical Specifications

Frontend

- ReactJS for UI components
- Redux for state management
- D3.js for data visualization

Backend

- NodeJS with Express for server-side logic
- MongoDB as the database

Cloud

- Deploy on AWS using EC2 instances and MongoDB Atlas for DBaaS

Others

- JWT for authentication
- HTTPS for secure communication
- RESTful APIs

Architecture

A serverless architecture using AWS Lambda functions could be considered for scalability. However, a traditional monolithic architecture is acceptable due to the not-so-complex nature of this application. The system should be designed to be 'applicationised' easily in the future.

Detailed Rules and Examples

Team Structure and Depth Levels

The team structure is hierarchical, originating from a 'Seed' partner. Partners under the Seed are Level 2 partners, and partners under Level 2 are Level 3 partners, and so on.

- Depth Level 1: Seed (e.g., Bob)
  - Team 1, Team 2, etc. (e.g., Sam, Sam2)
- Depth Level 2: Direct downlines of the Seed (e.g., Sam, Sam2)
  - Team 1 under Sam, Team 2 under Sam2, etc. (e.g., David, David2)
- Depth Level 3: Direct downlines of Depth Level 2 partners (e.g., David, David2)
  - Team 1 under David, Team 2 under David2, etc. (e.g., Michael, Michael2)

Incentive Distribution Mechanism

The income distribution for each partner is calculated based on their PIN Level, and a percentage share is allocated according to the Pool Money generated by their team.

New Partner (35%)
- The New Partner gets 35% of the Pool Money at their Depth Level.
- If a New Partner has downlines, they have to redistribute a portion of their received Distribution Money to their direct downlines.

Senior Partner (50%)
- The Senior Partner gets 50% of the Pool Money at their Depth Level.
- Redistribution to downlines follows the same logic as for New Partners.

Executive Partner (65%)
- Executive Partners get 65% of the Pool Money at their Depth Level.
- Redistribution to downlines follows the same logic as for New Partners and Senior Partners.

Stripe API Integration

The application will be integrated with Stripe for automated monthly fee deductions from each partner's account.

Milestones

Requirement Gathering and Finalization - 1 week
Design Mockups and User Experience - 1 week
Proof of Concept - 1 week
Core Functionality Development - 3 weeks
Testing and Feedback Iteration - 1 week
Final Testing and Deployment - 1 week

Budget

$10,000 - $15,000

Required Expertise

- Full-stack development
- MongoDB and NodeJS experience
- React and Redux
- Experience in financial calculation systems is a plus

UI Mockup for Multi-Level Partnership Distribution System

Dashboard:

- Top Navigation: Home, Teams, Redistribution, Reports, Profile
- Side Navigation: List of Teams (Team 1, Team 2, etc.)

Main Area:

Summary Panel
- Total Pool Money
- Total Distributed Money
- Net Income

Team Overview
- Team structure represented as a tree or graph
- Clickable nodes to view detailed information

Income Distribution Table
- Partner Name
- Depth Level
- Upline
- PIN Level
- Team Members
- Pool Money
- Percentage Share
- Distribution Money
- Redistribution to Downline

- Net Income
- Monthly Fee

Settings:

- Ability to add, remove, or edit rules
- Role-based access controls

Reports:

- Various filter options for custom reporting

Profile:

- Personal and bank information for distribution