**Problem Statement:**

Gamification - Investment Journey

**Description of the Problem Statement:**

Build a gamic experience for the investment journey of a client for the age group starting from 21yrs(new graduate from college) to 65yrs (retriement age). This journey to help the client to understand the different benefits of the investment policies like small cap, equity, funds etc depending upon the amount he placed for the investment.

**Success Criteria:**

A game to provide a financial literacy among the clients for the age group - 21yrs to 65yrs.

**Benefits:**

An individual can plan for the retirements at the early stage

**Tech Stack:**

Application Platform- MEAN, MERN, JAVA, .NET Frameworks

*Use of AR is a plus*

**SMEs are:**

Aadil Ahmed Md Vellore – VP, CCIB FM

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Now after that, I want to give the users 3 paths: 1. Learning via videos, tutorials, etc. After each lesson, we test their knowledge by giving them a quiz or scenario based tests. Each lesson completion reward would be coins or some currency. after every major course completion, they'll get a badge. 2. Simulating Investment. We give them a simulation of the current stock market and stuff. They get to decide how much money they possess. Then, they get to invest it into the stocks (simulate) but with the actual market value of the stocks so that they feel that they are doing it in the real world. Lets not limit it to Stock market, let it include mutual funds, sips and other investment options as well. Once they have decided how to spend their money (in investment) they will also get an option to record the non-investment spendings. They can try multiple such investments. Eg. 1] Name of investment folder: Testing 1; Amount I will have as simulation currency: 10,00,000. Now, I decide I want to keep 6,00,000 as my spendings (non-investment meaning food, daily spendings and so on) then I will have 4,00,000 left. In that, I invest 10% in my xyz pension plan and 10% in abc health policy. then 40% i put in savings and fd in xyz bank. then I put 30% in stocks (LT, TCS, SAIL, GAIL) and the remaining 10% in mutual fund lmn. Now i will also give the duration...for so many months, etc. So what will happen is, staarting from that day, for xyz duration, the simulator will calculate the money based on the actualy prices. Ex: LT stock was for 120 rs. After 2 days, it increased to 127. And so on....we will give the user the chance to invest and change his investments as well. So that maybe after a certain duration, let us say after 1 month, I see that LT price increased, SAIL gsve me dividend of 50 per share and so on...these values will match with the actual stock market values.....but the money the user invests will all be a simulation. At the same time, I can also create multiple Investment folders to try out multiple different investment techniques simultaneously. 3. Actual tracking of your money. If suppose the user has money and he has in real life put it into his bank or invested it elsewhere. We will help him track his money. For example; If i set monthly income = mysalary. Spendings in daily life = xyz. So spendings left = mysalary - xyz. Now this xyz lets say I decided to invest somewhere. I will just select the option to 'Add investment' and then I will give the details: like amount to be invested, dureation, rate and so on...basically it will help me keep track of where i have invested, what money I need to keep putting into various places like pension pans on a monthly basis, etc

1. **Learning Path:**
   * Develop a section of the application where users can access educational content such as videos, tutorials, articles, and quizzes on investment topics.
   * Implement a reward system where users earn virtual coins or currency upon completing each lesson or quiz.
   * Award badges or achievements to users upon completing major courses or mastering specific topics.
   * Provide progress tracking features to allow users to monitor their learning journey and track their achievements over time.
2. **Investment Simulation Path:**
   * Create a simulation environment that replicates real-world investment scenarios, including stock market simulations, mutual fund investments, SIPs (Systematic Investment Plans), and other investment options.
   * Allow users to set up virtual investment portfolios with a specified amount of simulated currency and allocate funds across different investment vehicles based on their preferences.
   * Implement functionality for users to track the performance of their investments over time, including changes in stock prices, dividends received, and overall portfolio value.
   * Enable users to adjust their investment strategies, reallocate funds, and experiment with different investment techniques within the simulation environment.
   * Provide tools for users to analyze and evaluate the performance of their investments, including ROI (Return on Investment) calculations, risk assessments, and portfolio diversification strategies.
3. **Financial Tracking Path:**
   * Develop features for users to track their real-life financial transactions, including income, expenses, savings, and investments.
   * Allow users to input their monthly income, expenses, and savings goals to create a budget and track their financial progress over time.
   * Enable users to record their investment transactions, including details such as investment amount, duration, interest rates, and investment goals.
   * Provide visualization tools and reports to help users analyze their financial data, monitor their investment performance, and make informed decisions about their finances.

Overall, your platform will offer users a comprehensive learning and practice environment for improving their financial literacy, understanding investment concepts, and managing their finances effectively. Each path provides unique opportunities for users to learn, practice, and track their progress in different aspects of personal finance and investment management. Make sure to prioritize user experience, usability, and accessibility throughout the development process to create a valuable and engaging platform for your users.

1. **Loan Repayment Calculator:**
   * Develop a loan repayment calculator that allows users to input the loan amount, interest rate, loan duration, and desired monthly EMI (Equated Monthly Installment).
   * Implement the necessary formulas to calculate the remaining principal loan balance and interest payments over time. This may involve using formulas such as the amortization formula to calculate the loan amortization schedule.
   * Display the calculated results to users, including the breakdown of principal and interest payments for each period (e.g., monthly, yearly) and the total duration required to repay the loan.
2. **Investment Projection Calculator:**
   * Create an investment projection calculator that enables users to input the initial investment amount, expected annual ROI (Return on Investment), and investment duration.
   * Use mathematical formulas to calculate the future value of the investment based on compound interest calculations. This may involve using formulas such as the compound interest formula to calculate the future value of the investment over time.
   * Provide users with projected investment growth over the specified duration, including the total amount accumulated and the annualized ROI.
   * Optionally, allow users to adjust parameters such as the investment duration or ROI to see how changes impact the projected investment outcome.
3. **User-Friendly Interface:**
   * Design a user-friendly interface for the financial calculators, with clear input fields, labels, and interactive elements to guide users through the input process.
   * Ensure that users receive immediate feedback and visual representations of the calculated results, such as tables, charts, or graphs, to help them understand the implications of their financial decisions.
   * Include tooltips or help sections to explain the calculations and assumptions used in the calculators, helping users make informed decisions.