

Basic Details of the Team and Problem Statement

Selected Problem Statement: **Gamification and FinTech Education**

Team Name: **Alpha_Coder**

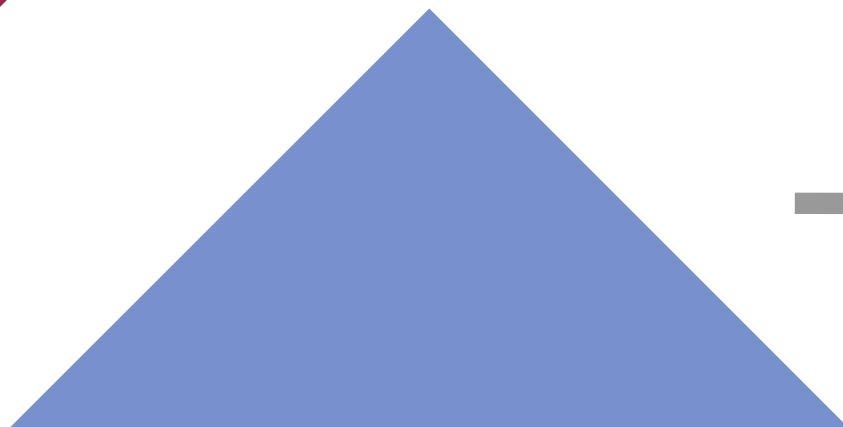
Team Leader Name: **RAJ GUPTA**

Member Names: **SAHIL YADAV**

DEEKASH YADAV

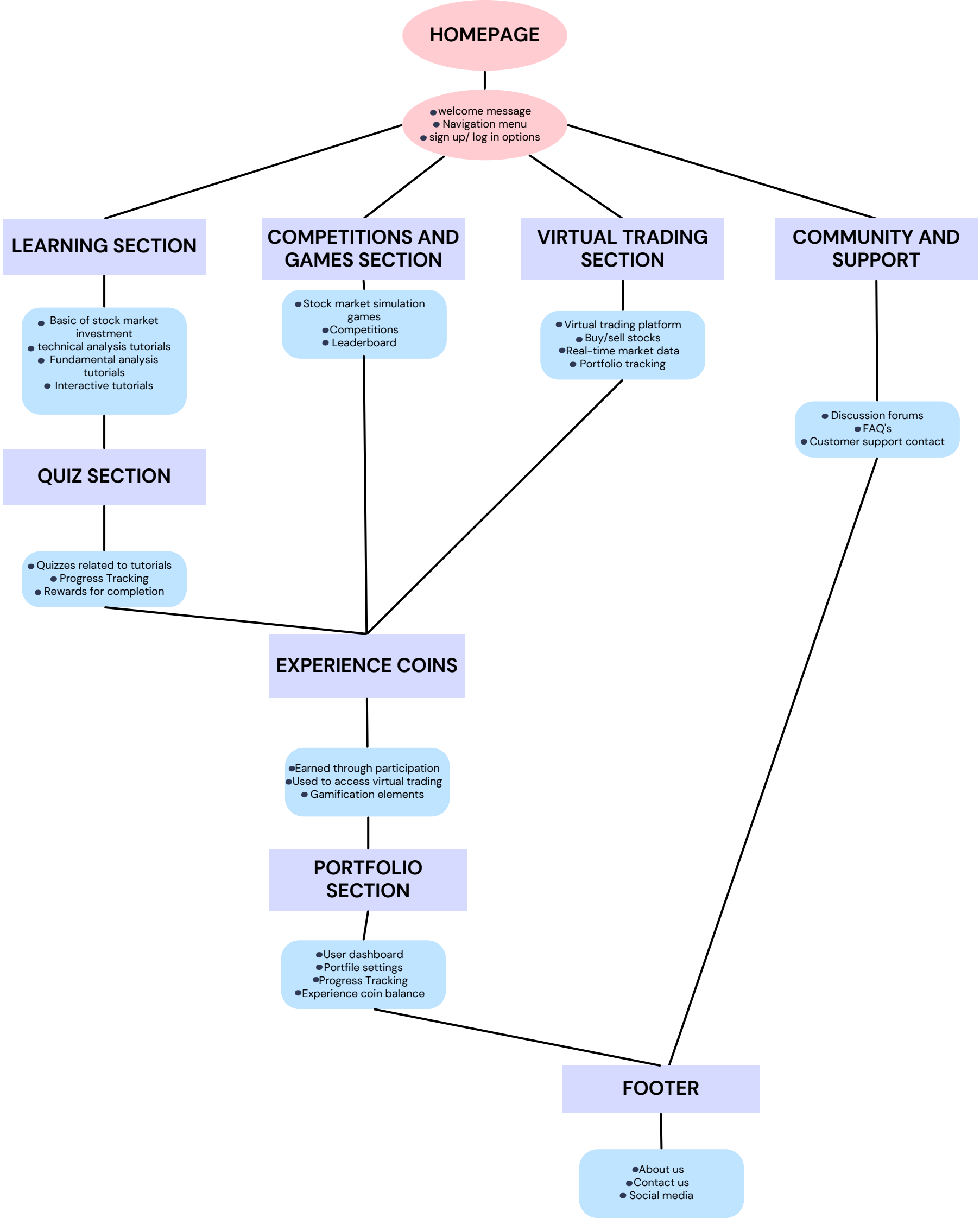
RAUSHAN KUMAR

Institute Name: **NIT GOA**



Idea/Approach Details

- StockMarket101 is a comprehensive online platform designed to empower beginners in the stock market by providing them with interactive tutorials, quizzes, competitions, games, and virtual trading experiences.
- Our website caters to individuals who have little to no knowledge about stock market investing, offering them a user-friendly and engaging learning environment. Through interactive tutorials, users can learn the basics of stock market trading, technical analysis, and fundamental analysis.
- Quizzes reinforce learning, while competitions and games make the educational process fun and interactive.
- One of the unique features of StockMarket101 is the virtual trading functionality, allowing users to apply their newfound knowledge in a risk-free environment.
- By participating in the platform's activities, users earn experience coins, which they can then use to access virtual trading and gain practical experience.



Uniqueness

1. Knowledge Nexus(Interactive Learning Environment):

A dynamic and immersive hub where users engage with multimedia tutorials, interactive simulations, and real-time market data to master the intricacies of stock market investing.

- 1. User Profiles: Username, email, hashed password, learning progress.
- 2. Content: Tutorials, simulations, market data.
- 3. Interaction History: User engagement.
- 4. Achievements: Mastery levels, completed tutorials.

2. Wisdom Tokens(Experience Coin System):

Currency of expertise earned through active participation in learning modules, quizzes, and challenges. Wisdom Tokens grant access to advanced features and privileges within the platform.

- 1. ³ Token Transactions: User ID, amount, transaction type, timestamp.
- 2. Token Wallet: User ID, token balance.
- 3. User Feedback: User ID, feedback content, timestamp.

3.Mastery Quest(Gamified Learning Experience):

Knowledge acquisition and skill development through engaging quests, challenges, and competitions. Earn accolades, unlock achievements, and rise through the ranks as you become a master of the stock market.

1. **Quests/Challenges: Name, description, difficulty, completion status, rewards.**
2. **Accolades/Achievements: Name, description, unlock criteria.**
3. **Ranks/Levels: Progression system based on experience points or completed quests/challenges.**

4. Insightful Vigilance(Experience-Based Risk Management):

Utilize your accumulated wisdom and astute market insights to navigate the complexities of risk and reward in the stock market. Exercise caution, make informed decisions, and safeguard your investments with strategic precision

1. **Risk Analysis: Factors like volatility, liquidity, potential returns.**
2. **Decision History: Buy/sell actions, reasoning, outcomes.**
3. **Investment Safeguards: Stop-loss orders, diversification strategies.**

Stack

Front-end: React.js

- Back-end: Node.js with Express.js
- Database: PostgreSQL or MongoDB
- Real-time Data: APIs and WebSocket
- Multimedia: HTML5 + JavaScript
- Authentication: JWT or OAuth
- Design: Responsive, SEO, Security

Back-End Development:

- Node.js or Django: These are server-side frameworks for building the back-end logic of the website. They handle data processing, user authentication, and communication with databases.
- Express.js (if using Node.js): A minimal and flexible Node.js web application framework that provides a robust set of features for web and mobile applications.
- Django REST Framework (if using Django): A powerful and flexible toolkit for building Web APIs in Django.