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Finvision Thriver Prediction for Wealth Management

Mrs.B.L. Philomina Suganthi*, Vishalakshi.Y**, Roobeni.S**
Lecturer, Computer Engineering, Murugappa Polytechnic College, Chennai, Email: blp.sugan@gmail.com
Final Year, Computer Engineering, Murugappa Polytechnic College, Chennai, Email: vishalakshiympc.e2@gmail.com
Final Year, Computer Engineering, Murugappa Polytechnic College, Chennai, Email: roobenis.2006@gmail.com

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Abstract

The proposed system is a smart financial management application designed to assist users in planning investments and managing daily expenses through a single integrated platform. The system aims to improve financial awareness and help individuals make better financial decisions based on their personal financial information. It collects important user inputs such as income details, investment preferences, and risk level to generate suitable investment recommendations. The application analyzes these inputs and provides the best investment options that match the user's financial profile. In addition to investment planning, the system also allows users to track their daily expenses and compare spending patterns. This helps users understand their financial behavior and develop disciplined spending habits. The system is designed with a modular architecture to ensure efficient data processing and smooth interaction between system components. It provides a simple, user-friendly interface that allows users to access financial insights easily. Overall, our project acts as a digital financial assistant that supports better money management and long-term financial stability.

Keywords: Financial Management, Investments, Financial decisions, Data Processing, Money Management, Financial Stability.

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INTRODUCTION

The aim of the project is to develop a smart financial management application that helps users to make financial decisions through personalized investment planning and effective daily expense tracking. The project focuses on promoting financial awareness, responsible spending, and better money management by providing a simple, User-friendly platform for long-term financial growth.

OBJECTIVE

The objective of the project is to create a unified financial management platform that enables users to plan their investments effectively and manage their daily expenses in a simple and structured way. The project aims to support better financial decision-making by providing personalized investment guidance and continuous expense monitoring and to help users gain better control over their finances.

II. SYSTEM ANALYSIS

2.1 EXISTING SYSTEM

Investment decisions are generally based on non-personalized information and general advice, without structured financial guidance. Existing systems lack integrated planning, intelligent analysis and a unified platform for long-term financial growth and daily expense management. Financial management is mostly manual or scattered across multiple applications, making it difficult for users to manage investments and expenses in a single place.

2.2 PROPOSED SYSTEM

The proposed system will offer a unified platform accessible through an android application. Key features include, user-friendly interface for easy financial planning and expense monitoring, clear financial insights and reports to support better money management and decision-making, personalized investment guidance based on user financial details and risk preferences.

III. SYSTEM DESIGN

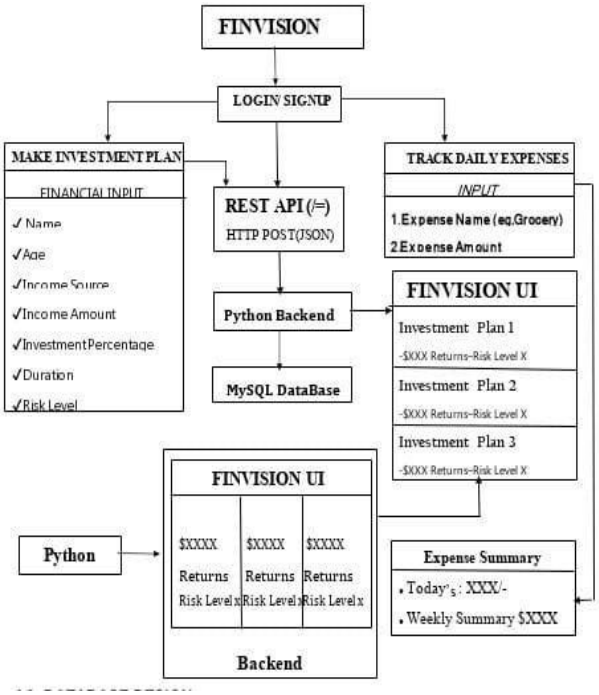

Fig.1 System Design

The FINVISION represents the mobile application through which the users interact with the system. This becomes the entry point where users can access the various investments plans. The LOGIN portal is responsible for the user authentication process. In this section, the user is allowed to have create a new account or access the system using their existing credentials which ensures the user's safety. The MAKE INVESTMENT PLAN section gets the inputs such as name, age, income source, income amount, investment percentage, time period and risk level from the user. These inputs help the system to understand the user's financial profile.

The TRACK DAILY BLOCK allows the users to record their daily expenses and spending activities. The expense name along with the expense amount are tracked in this section. These inputs help the system to monitor the user's expense behavior. The REST API block represents the communication layer between the front end and backend. The financial inputs provided by the users are sent to the backend using REST API which ensures structured and efficient data transfer between system components. The PYTHON BACKEND section processes the financial inputs received from the application. It applies the data received from the user to analyze the information. Based on this analyze, the most suitable investment options are offered to the user by the system. The FINVISION UI generates the best three plans after processing the inputs. All the details such as expected returns, risk levels are included in the investment recommendation. These plans are displayed to the user in the FINVISION user interface for review. The BACKEND RESULT DISPLAY section shows backend processed results to the application interface.

IV. MODULES DESCRIPTION

a. User Authentication and Financial Data Collection

1. This module manages user login and signup to ensure secure access to the application.

2. It collects essential financial and personal details required for investment planning and expense tracking. The module ensures that user data is properly validated before processing.

3. It acts as the entry point of the system. It provides a smooth and user-friendly interaction for users. It ensures data reliability and security.

b. Restful Service Communication

1. This module handles the communication between the frontend and backend of the system. It enables the system evaluates using risk levels, income amount, investment duration, investment percentage for decision-making.

2. It identifies the best investment options for users. This module performs core analytical operations of the system. It supports intelligent financial planning secure and structured data transfer using REST APIs.

3. All user inputs and system responses are transmitted in a standardized JSON format. It ensures smooth interaction between different system components.

4. This module supports reliable request and response handling. It maintains proper data flow across the application.

c. Python based Investment Processing

This module processes user financial data using predefined financial logic. It analyzes user inputs to generate suitable investment recommendations.

d. Recommendation Output and Database Management

This module manages the structured storage of user information and financial input data in the database.

It is responsible for delivering the generated investment recommendations to the user interface for display.

The investment plans are processed dynamically and are not stored permanently in the database. The module ensures secure data handling and proper data flow within the system.

e. Python based Investment Processing

This module processes user financial data using predefined financial logic. It analyzes user inputs to generate suitable investment recommendations.

V. OUTPUT SCREENSHOT

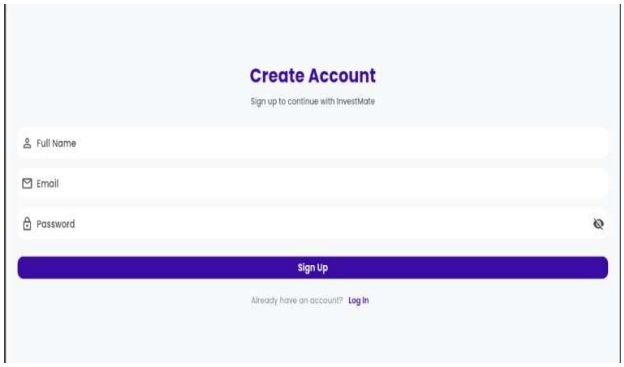

Fig.1: Signup page

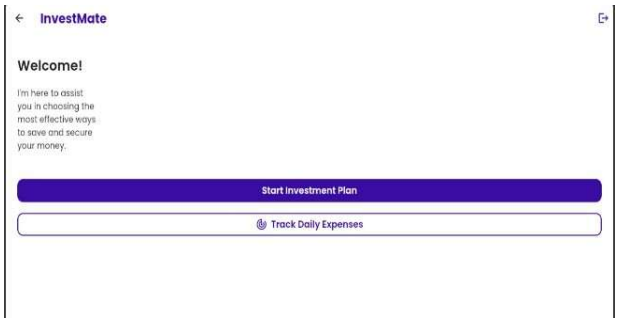

Fig.2: Welcome page

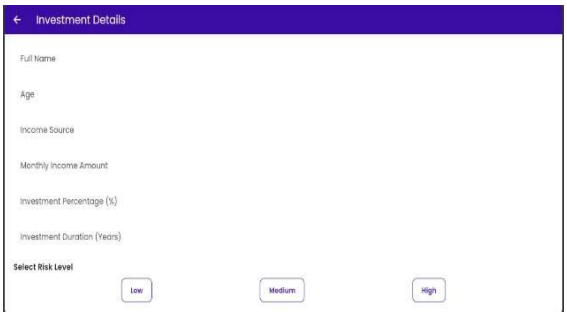

Fig.3: Details entry page

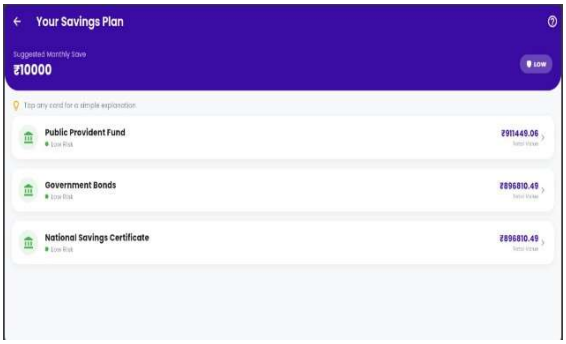

Fig.4: Plan view page

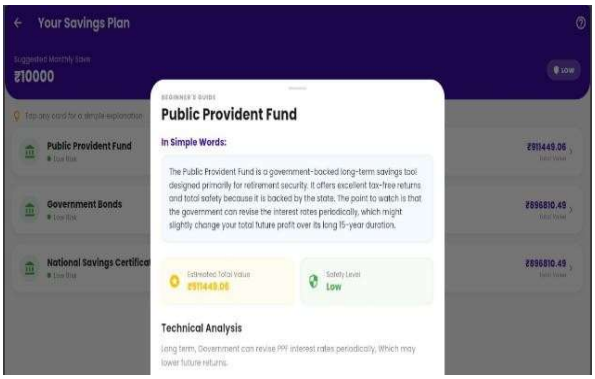

Fig.5: Plan detail page

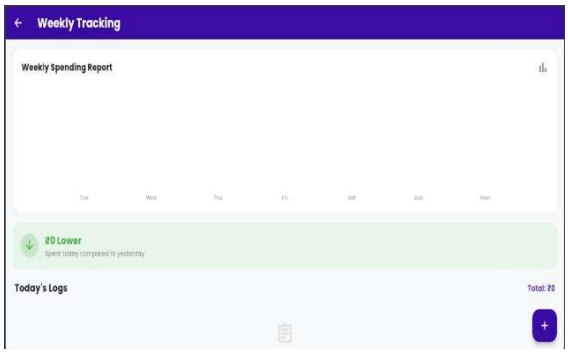

Fig.6: Weekly expense track

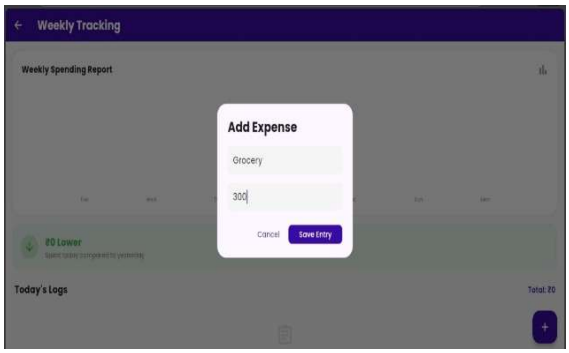

Fig.7: Expense data entry page

VI. CONCLUSION

In summary, this android application provides a comprehensive solution for personal financial management by integrating intelligent investment planning and daily expense tracking into a single unified platform. By combining structured financial guidance with a user-centered design approach, the system simplifies the process of managing finances and making informed investment decisions.

VII. REFERENCES

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