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# Project proposal for

FundFlow Navigator: An Expense Tracker

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# Software Project Proposal

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## Introduction

AI Tech Solution LTD. is an IT company which develops Software projects. We have been providing software solutions for the past 7 years to multiple business sectors. Our company is based in Dhaka, but our services are provided worldwide. Our approach is to capture our client's business requirements and develop various customized software to meet their business needs.

## Proposal for Md. Anwarul Kabir

### Overview of the proposed system

**Title:** FundFlow Navigator: An Expense Tracker

### Overview

The FundFlow Navigator project stands at the intersection of cutting-edge technology and the pressing need for comprehensive financial guidance. This is a mobile application that can navigate through various investment options, keep track of expenses, and make informed decisions that align with personal financial goals. By offering real-time insights, personalized recommendations, and a user-friendly interface, this mobile application promises to be a game-changer in the realm of personal finance management. It aims to empower users to navigate their financial journeys with confidence, making informed decisions that pave the way for a secure and prosperous future.

### Objectives and subobjectives

**Primary Objective:** Developing an expense tracking and finance management system mobile application.

#### Sub Objectives:

1. AI powered financial insights engine development
2. Data mining module development for real time data monitoring
3. Database module development

4. Dynamic planning module development
5. Expenditure module development
6. Alert system module development
7. Recommendation module development
8. Accounts module development
9. Invoice module development

#### **Justifications:**

##### **AI-Powered Financial Insights:**

Developing an advanced AI engine that utilizes machine learning algorithms to analyze users' financial data and market trends. This engine will generate real-time insights and personalized recommendations, helping users make informed decisions aligned with their financial goals.

##### **Goal-Oriented Planning:**

Implementing a feature that allows users to set and prioritize their financial goals, such as saving for a house, paying off debt, or building an emergency fund. The application should break down these goals into achievable milestones, offering a clear roadmap for users to follow.

##### **Real-Time Monitoring and Alerts:**

Enabling users to monitor their financial progress on a daily basis. Implement alerts and notifications that inform users about deviations from their financial plans, market shifts, or missed milestones.

##### **Educational Resources:**

Creating an educational hub within the application that offers easy-to-understand resources on financial concepts, investment strategies, and risk management. Empowering users with financial literacy will enhance their decision-making capabilities.

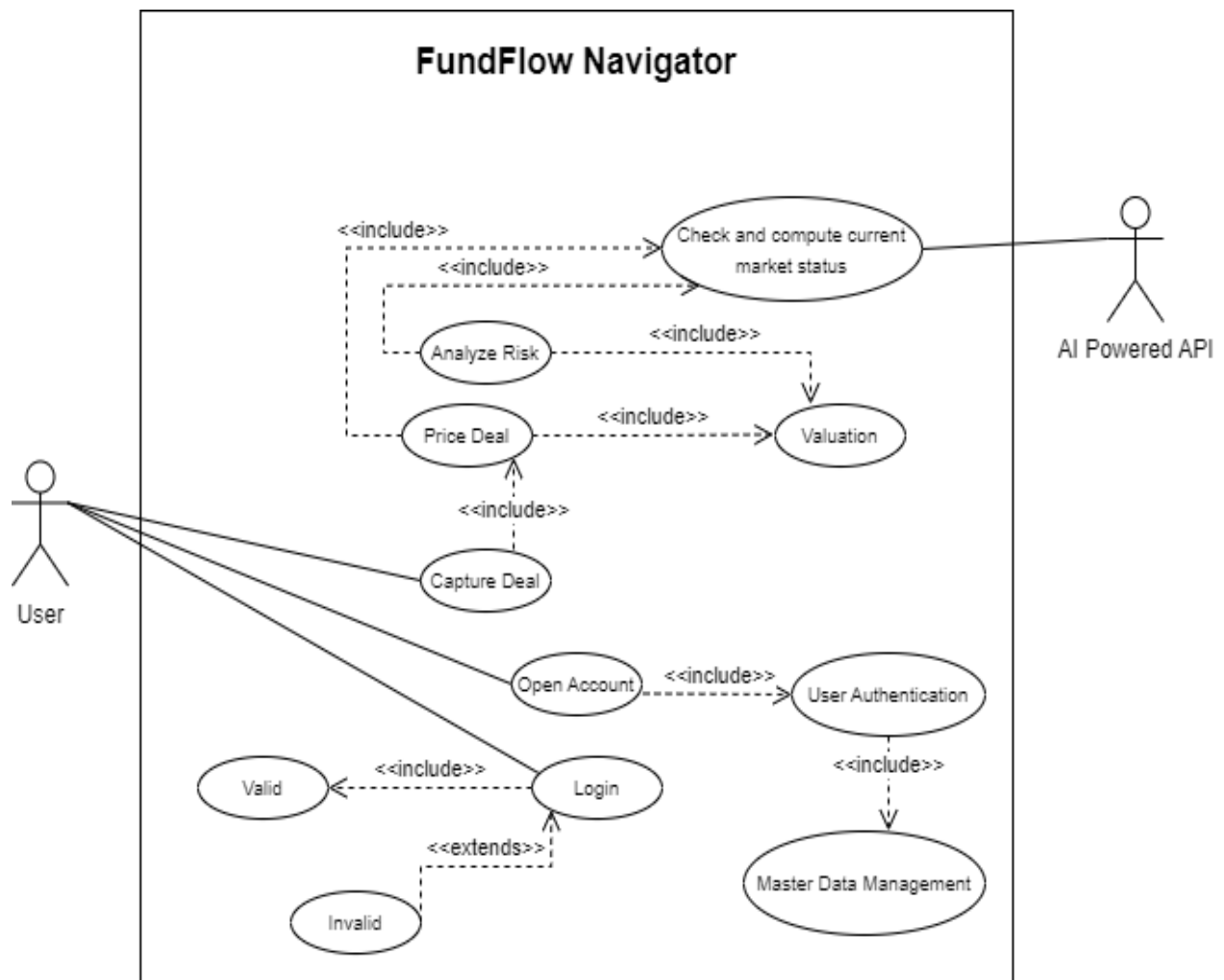
##### **Customized Investment Recommendations:**

Incorporate AI-driven investment recommendations that consider users' risk tolerance, financial goals, and market conditions. The system should suggest diversified investment portfolios to help users maximize returns while managing risks.

##### **Expense Tracking and Budgeting:**

Develop robust expense tracking and budgeting tools that allow users to categorize and monitor their spending habits. The application should provide insights into areas where users can cut back to save more.

Use case Diagram of the proposed systems:



## **Scopes and feature:**

Here are the listed scopes and features under specific scopes:

### **Scope 1: Expense Tracking and Finance Management System**

#### **Feature-**

- Expense Tracking
- Financial Health Dashboard

### **Scope 2: AI-Powered Financial Insights Engine**

#### **Feature-**

- Real-Time Analysis
- Personalized Recommendations

### **Scope 3: Dynamic Planning Module**

#### **Feature-**

- Goal Setting
- Milestone Breakdown

### **Scope 4: Real-Time Monitoring and Alerts System**

#### **Feature-**

- Daily Progress Tracking
- Alert System

### **Scope 5: Educational Resources Hub**

#### **Feature-**

- Financial Concepts
- Investment Strategies
- Risk Management

## **Scope 6: Customized Investment Recommendations**

### **Feature-**

- AI-Driven Investment Suggestions
- Diversified Portfolios

## **Scope 7: Expense Tracking and Budgeting Tools**

### **Feature-**

- Expense Categorization
- Budgeting Features

## **Scope 8: Data Mining Module for Real-Time Data Monitoring**

### **Feature-**

- Continuous Data Monitoring

## **Scope 9: Database Module**

### **Feature-**

- Secure Data Storage

## **Scope 10: Alert System Module**

### **Feature-**

- Critical Event Notifications

## **Scope 11: Accounts Module**

### **Feature-**

- Financial Account Management

## **Scope 12: Invoice Module**

### **Feature-**

- Invoice Tracking

## **Primary and Secondary Stakeholders:**

### **Primary Stakeholders:**

- Users
- Business Owner
- Development Team
- Customer Support
- Data Security and Privacy Team
- Recommendation Engine Monitoring Team
- Content Management Team

### **Secondary Stakeholders:**

- Management and Investors
- Regulatory Bodies
- Third-Party Service Providers
- Financial Institutions
- Educational Institutions
- Insurance Providers
- External Auditors

## **Technical Requirements:**

### **i) Operating Systems:**

#### **Android:**

- FundFlow Navigator will be compatible with Android operating systems, ensuring support for a broad range of Android smartphones and tablets.
- The app will be optimized for various Android versions, considering backward compatibility where feasible.
- Regular testing will be conducted to ensure a seamless experience across different Android devices.

#### **iOS:**

- FundFlow Navigator will be developed to run on iOS, making it compatible with iPhones and iPads.
- The app will be designed to work efficiently on the latest iOS versions, with attention to maintaining compatibility with earlier versions when possible.
- Thorough testing will be carried out on different iOS devices to guarantee a consistent and reliable performance.

## **ii) Implementing Software Requirements:**

### **Programming Languages:**

The development of FundFlow Navigator will utilize programming languages suitable for both Android and iOS platforms. For Android, Kotlin or Java may be used, while Swift or Objective-C may be employed for iOS.

### **Cross-Platform Development:**

Consideration will be given to cross-platform development frameworks (e.g., React Native, Flutter) to potentially streamline development and ensure a consistent user experience across platforms.

### **Integrated Development Environment (IDE):**

Developers will use appropriate IDEs such as Android Studio for Android development and Xcode for iOS development.

The development environment will be set up to support efficient coding, debugging, and testing.

### **Version Control:**

Version control systems like Git will be employed to manage and track changes in the source code, ensuring collaboration among the development team.

### **Database Management:**

A robust database management system, such as SQLite or Firebase, will be implemented to securely store and manage user financial data.

## **iii) Hardware Requirements:**

### **Device Compatibility:**

FundFlow Navigator will be designed to run on a variety of devices, including smartphones and tablets, ensuring compatibility with different screen sizes and resolutions.

### **Processor and Memory:**

The app will be optimized to function efficiently on devices with varying processor capabilities and memory specifications, providing a smooth user experience.

### **Connectivity:**

FundFlow Navigator will require internet connectivity for real-time data updates and synchronization. The app will be optimized for both Wi-Fi and mobile data connections.



**Security Features:**

The hardware requirements will include support for security features, such as secure enclaves on devices that support advanced security measures like biometric authentication (fingerprint, face recognition).

**Camera and Sensors:**

If needed, the app may utilize device features such as cameras or sensors for functionalities like capturing receipts or integrating augmented reality features.

**Pricing**

Our fee for the whole project from the first step to the last one will be BDT 8,00,000. The breakdown is provided below:

SOFTWARE DEVELOPMENT	BDT 4,80,000
LAUNCH AND SUPPORT	BDT 2,40,000
TRAINING	BDT 80,000

**Warranty & Limitation of Liability**

We provide a 100-day warranty, from the date of acceptance of our software proposal. During this time, if the software malfunctions, or doesn't operate in any way, then we take the necessary steps to fix the issue and ensure that the Software operates according to the specifications. However, our services remain at your disposal for any future assistances.

**Contact us:**

You can contact us with any of the following ways:

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We look forward to hearing from you.

Regards,  
AI Tech Solution LTD.