**Invest 360**

1. **INTRODUCTION**

Choosing the right bank for loans, savings, or deposits can be challenging due to varying interest rates, calculation complexities, and terms. A platform that simplifies this process by enabling users to compare interest rates and view financial projections can save time and help users make informed decisions.

**Invest 360** is a web-based project that provides an interactive platform for users to compare interest rates across multiple banks, calculate compound and simple interest, and view detailed summaries for loans or investments. Users only need to input their desired amount, and the platform does the rest.

**Problem Statement**:

* Difficulty in comparing interest rates and terms offered by different banks.
* Lack of user-friendly platforms for quick financial calculations like compound interest.
* Informed financial decision-making is often hindered by scattered and complex information.

**Numerical Facts**:

1. **75% of consumers** research online before choosing a bank for loans or deposits. *(Source: Statista)*
2. Over **60% of users** prefer platforms that offer side-by-side comparison tools. *(Source: McKinsey Banking Insights)*
3. The global fintech market size is expected to grow to **$324 billion by 2026**. *(Source: Market Research Future)*

**2. OBJECTIVES AND SCOPE**

To create an interactive predictive platform that empowers users to compare the best bank according to their need.

**Specific Objectives**:

* Build a user-friendly platform for comparing bank interest rates.
* Provide detailed calculations for compound interest, simple interest, and projected returns.
* Enable users to make better financial decisions through transparent information.

**SCOPE :**

The primary goal of this project is to make a platform by offering a more reliable way to compare the best bank and manages .

Specifically, we will:

* **Target Audience**: Individuals seeking loans or investment opportunities.
* **Features**: Interest rate comparison, dynamic calculations, and user dashboards.
* **Future Enhancements**: Add AI-powered personalized bank suggestions and real-time rate updates.

**3. Resources (Hardware & Software)**

* 1. **Hardware Requirements**

**Client Side**

|  |  |
| --- | --- |
| Processor | Dual Core or above |
| RAM | 4 GB |
| Disk space | 150 GB |
| Screen Resolution | 720p or above |
| Others | Keyboard, mouse, Internet connection |

**Developer Side**

|  |  |
| --- | --- |
| Processor | Quad Core or above |
| RAM | 8 GB |
| Disk space | 250 GB |
| Screen Resolution | 1080p or above |
| Others | Keyboard, mouse, Internet connection |

* 1. **Software Requirements**

**Client Side**

* Web Browser (Google Chrome, Firefox, IE9 or above)
* Windows 7 or above / Linux / Android / IOS

**Developer Side**

* Operating System: Windows 10 or above /Linux
* Web Browser: Chrome / Firefox / Edge
* IDE: VS Code
* Programming Language: Python
* Runtime Environment: Miniconda
* Backend Framework: Flask
* Database: sqlalchemy
* Version Control System: Git

**4. Project Schedule Plan:**

The Software Planning objective is to create a flexible framework for estimating resources, costs, and schedules at the project's outset, to be updated regularly. Embracing best and worst-case scenarios, it aims to provide a bounded understanding of project outcomes. More than a visual aid, it is a dynamic narrative, uiding project managers through the timelines, turning complexity into clarity.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Task | 28Jan-20Feb | 21Feb-10Mar | 11Mar-1Apr | 2Apr-19Apr | 20Apr-30Apr | 1May-10May |
| Develop project proposal | 23 days |  |  |  |  |  |
| Analysis |  | 19 days |  |  |  |  |
| Designing |  |  | 21 days |  |  |  |
| Coding |  |  |  | 17days |  |  |
| Unit Testing |  |  |  |  | 10 days |  |
| Implementation |  |  |  |  |  | 10 days |

**Gantt Chart**

**Project Team:**

**Instructor :**

**Mentor :**

**Project Team Members :**

**6. Process Description**

1. **User Authentication Module**:  
   Secure login and registration for personalized access.
2. **Input Module**:  
   Users input their principal amount, tenure, and type of interest (simple or compound).
3. **Calculation Module**:  
   Performs interest calculations and financial projections dynamically.
4. **Comparison Module**:  
   Displays side-by-side comparisons of interest rates and returns.
5. **Dashboard Module**:  
   Offers a personalized dashboard for users to track comparisons and save preferences.
6. **Search and Filter Module**:  
   Filters banks by investment areas.
7. **Visualization Module**:  
   Displays projections using charts and graphs for better understanding.
8. **Report Generation Module**:  
   Generates downloadable reports of financial comparisons and projections.
9. **Data API Integration Module**:  
   Fetches real-time interest rate data from bank APIs.
10. **UI Module**:  
    Provides an intuitive interface for seamless user interaction.

**7. Contribution of the student in the project:**

**i. ABC:**

**ii.** **DEF:**

**8. Conclusion**

**Invest 360** offers a comprehensive solution for comparing bank interest rates, calculating financial projections, and making informed decisions. The platform simplifies a complex process, empowering users to take control of their financial decisions.