



**VISHWAKARMA INSTITUTE OF  
INFORMATION TECHNOLOGY**

## **Department of Information Technology**

**Subject – User-Centered Software Design.**

**Project Name-YourFinance.**

**Class-SY IT(B1).**

**Mentor Faculty-Mr.Mahesh Bhandari.**

### **Team Members:-**

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# Risk Management Plan for YourFinance

## 1. Objective

The objective of this Risk Management Plan is to identify, assess, mitigate, and monitor potential risks associated with the development of ***YourFinance***, a web-based personal finance management application. This plan ensures that risks are proactively managed to minimize their impact on project execution, financial data security, and regulatory compliance. It also aims to enhance overall project efficiency, safeguard user trust, and ensure seamless functionality.

Key areas of focus include:

- Protecting user financial data through robust security measures.
- Ensuring seamless API integrations with banking and tax services.
- Maintaining compliance with industry regulations.
- Managing project timelines effectively to meet deliverables.
- Implementing an AI-powered financial advisory system with high accuracy.

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## 2. Risk Identification

Risk identification is the process of recognizing potential threats that may impact the project. Below is a list of identified risks categorized based on their nature:

Risk ID	Risk Description	Category
R1	Data breaches or financial fraud due to weak security	Security
R2	API integration failures with banking/tax services	Technical
R3	Misinterpretation of AI-generated financial advice	AI Accuracy

<b>R4</b>	Compliance risks with financial regulations	Legal
<b>R5</b>	Delays in feature development	Project Timeline
<b>R6</b>	Scalability issues as the user base grows	Performance
<b>R7</b>	User adoption and engagement challenges	Usability
<b>R8</b>	Inconsistent financial data input leading to inaccurate analytics	Data Integrity

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### 3. Risk Assessment

Each identified risk is assessed based on its likelihood of occurrence and impact on the project. This helps prioritize risks and focus mitigation efforts on critical areas.

Risk ID	Likelihood (High/Med/Low)	Impact (High/Med/Low)	Priority
<b>R1</b>	High	High	Critical
<b>R2</b>	Medium	High	High
<b>R3</b>	Medium	Medium	Medium
<b>R4</b>	High	High	Critical
<b>R5</b>	Medium	Medium	Medium
<b>R6</b>	Medium	High	High
<b>R7</b>	Medium	Medium	Medium
<b>R8</b>	High	High	Critical

## Explanation of Assessment

1. **Data breaches (R1)** are a high-priority risk due to the sensitive nature of financial data. A security lapse can lead to financial fraud, legal penalties, and loss of user trust.
  2. **API integration failures (R2)** can disrupt seamless access to financial data from third-party services, affecting user experience and reliability.
  3. **AI-generated financial advice (R3)**, if misinterpreted, can lead to incorrect financial decisions. Although not as critical as security risks, it requires disclaimers and manual verification options.
  4. **Compliance risks (R4)** with financial regulations such as GDPR and PCI-DSS are crucial, as non-compliance can result in legal action and financial penalties.
  5. **Delays in feature development (R5)** can impact project timelines but are manageable with an Agile development approach.
  6. **Scalability issues (R6)** can arise if the system fails to handle increased user traffic efficiently, leading to performance bottlenecks.
  7. **User adoption challenges (R7)** may arise if the platform lacks user-friendly features, impacting engagement.
  8. **Data integrity issues (R8)** can occur if users input inconsistent financial data, leading to inaccurate analytics and flawed financial insights.
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## 4. Monitoring and Reporting

To ensure continuous risk management, the following monitoring and reporting strategies will be implemented:

- **Weekly risk review meetings** to reassess risk status and mitigation effectiveness.
  - **Risk register maintenance on GitHub** (RISK\_REGISTER.md) to track identified risks, updates, and resolutions.
  - **Automated security audits and penetration testing** as part of the CI/CD pipeline.
  - **API integration testing in a staging environment** before deployment.
  - **Periodic compliance audits** to ensure adherence to financial regulations.
  - **Performance monitoring** using load testing tools to identify scalability issues.
  - **User feedback collection** through surveys and usability testing to enhance engagement.
  - **Regular data validation mechanisms** to ensure financial data accuracy.
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## 5. Conclusion

Risk management is a crucial component in the successful development and deployment of ***YourFinance***. By identifying, assessing, and proactively mitigating potential risks, the project aims to ensure data security, compliance with regulations, scalability, and timely feature delivery. Regular monitoring, reporting, and adherence to best practices will help minimize disruptions and enhance the reliability of the application. By integrating risk management with configuration management strategies on GitHub, the project team can effectively track changes and address challenges in real-time, ensuring a robust and secure personal finance management solution.

This proactive approach will help YourFinance maintain high security standards, regulatory compliance, and user satisfaction, ultimately leading to a successful and sustainable platform.