Softmare Engineering. Name & Beeksho A. Patel Sapid = 60004210126 Branch & Computer Engineering Div - C2, Batch & I Experiment no. 8 Aim: To create a RMMM plan: Create risk assessment template for a case study. To weate a Risk Identification, Mitigation, Monitoring of Management (RMMM) plan, follow these steps given below -1. Risk Identification >. utilize a comprehensive cheeklist convering froduct size, business impact, customer relations, process, technical aspects, technology, development environment, of staff size/experience 2. Brepare Risk Table & Assess risks bound on their probability of impact Categorie risks into narious categories and assign impad values ranging from catostophic to neglise negligible. 3. Mitigation Strategies = Prioritize xisks of develop specific plans to mitigate them. Examples include implementing roberst Lesting procedures, updating technologies regularly and providing training to enhance staff expectise

4. Monitoring and Management + Regularly monitor the effectiveness of mitigation strategies and adjust as needed. Assign responsibilities, establish communication channels, & integrate risk management ento project planning. Conclusion > In Conclusion, by employing a systematic Risk Identification, Mitigation, Monitoring, & Management anticipale, assess, of geddular potential risks throughord the project lifestyle l'élecycle altilizione a composhersive checklist facilitates the inder identification of rearious sink eategories, allowing for the Oprioritization of nitigation efforts based on probability and impact with tailored mitigation strategies in plan, such as implementing Robust testing procedures of enhancing staff expertise, of by continuedly monitoring of adjusting these strategies as huded, project stakeholders can significantly reduce the likelihorsel of aducess events & increase the probability of project success.





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Software Engineering

Experiment-8

Div: C2 Batch: 1

Team Members:

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AIM:

To create a RMMM plan: Create risk assessment template for a case study

PERFORMANCE:

1. Identify Risks

- a. Refer to the Risk Identification Checklist to be identify the risk
 - i. Product Size Risks ii.

Business Impact Risks iii.

Customer Related Risks iv.

Process Risks

v. Technical Issues vi.

Technology Risks

vii. Development Environment Risks viii. Staff Size and Experience Risks





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2. Prepare Risk Table by identifying potential risks and categorizing their impacts as follows Impact Values:

- 1 Catastrophic
- 2-Critical
- 3-Marginal
- 4-Negligible

Risks	Category	Probability	Impact
Complex Integration	Product Size Risks	60%	3
Security Breach	Business Impact Risks	15%	1
System Outage	Business Impact Risks		1
Lack of User-friendliness	Customer Related Risks	45%	2
Inaccurate Information	Customer Related Risks	30%	2
Inefficient Workflow	Process Risks	40%	2
Integration Issues (Third-Party Services)	Technology Risks	45%	2
Outdated Technology	Technology Risks	10%	2
Inadequate Testing	Development Environment Risks	35%	2
Lack of Expertise (Security)	Development Environment Risks	25%	2





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After sorting the above risk table based on impact and probability of risks.

Risks	Category	Probability	Impact
Lack of Version Control	Development Environment Risks	60%	3
Complex Integration	Product Size Risks	60%	3
Low User Adoption	Business Impact Risks	52%	2
Lack of Technical Expertise	Technology Risks	42%	2
Integration Issues (Third-Party Services)	Technology Risks	45%	2
Inefficient Workflow	Process Risks	40%	2
Lack of User-friendliness	Customer Related Risks	45%	2
Inaccurate Information	Customer Related Risks	30%	2
Unclear Development Process	Process Risks	35%	1
Security Breach	Business Impact Risks	15%	1
System Outage	Business Impact Risks	20%	1
Outdated Technology	Technology Risks	10%	2
Inadequate Testing	Development Environment Risks	35%	2
Lack of Expertise (Security)	Development Environment Risks	25%	2

So the cutoff line for risk table is defined after considering the risks from above tables and their probabilities and by accounting budget, time factor etc. is 40% cutoff line = 40%.





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3. Create a Risk Mitigation, Monitoring and Management plan for the Risks identified in the Risk Table

Risk Information Sheet					
RISK ID :- P02-01	DATE : 08/04/2024	PROB : 40%	IMPACT :- High		

Description:-

Limited integration capabilities between Easypay's various functionalities (UPI payment, mobile recharge, insurance, loan services) could lead to delays, errors, and inconsistencies in user experience. This could negatively impact user adoption and satisfaction.

Refinement/Context:-

Easypay integrates diverse financial services, each with its own technical specifications and APIs. Flawed integration can cause issues like:

- Data inconsistency across functionalities.
- Difficulty navigating between services within the Easypay app.
- Service outages or delays due to integration problems.

Mitigation/Monitoring:-





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Action 1: Develop a well-defined API integration strategy with clear guidelines and protocols.

Action 2: Conduct thorough unit testing of each service and integration testing to identify and rectify integration issues before deployment.

Monitoring: Track integration progress through code reviews and test result logs. Monitor user feedback and app usage analytics to identify any integration-related problems.

Management:-

- Regularly evaluating content sources: Assessing quality, reliability, and relevance to ensure they meet user expectations and regulatory requirements.
- Maintaining open communication with users: Gathering feedback and addressing concerns related to content sources to understand user preferences and identify areas for improvement.
- Developing contingency plans for content source disruptions: Mitigating the impact on users and maintaining trust by having backup options and alternative sources.
- Proactively seeking new content sources: Monitoring the media landscape to identify emerging publishers and diverse outlets that align with evolving user interests.
- Regularly updating the content strategy: Analyzing user feedback and market trends to keep the content library fresh, relevant, and cater to changing user preferences and consumption patterns.
- Stakeholder Interests: User needs for diverse and reliable content are balanced with maintaining compliant partnerships that deliver high-quality information.
- Adaptability: The content offering can evolve to reflect user preferences, market changes, and technological advancements.

Current Status:-

08/04/2024 - Mitigation steps initiated

Conclusion:

Hence, Risks were identified and a risk table was created and a risk information sheet was made for the same.