AMERICAN INTERNATIONAL UNIVERSITY BANGLADESH (AIUB)

Report On

E-Payment Gateway System

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Submitted By

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Abstract

E-Commerce signify electronic commerce throw online where customer can buy their goods, products, merchant can advertise. In this modern era e-commerce platform established a remarkable way. In recent years most of the service provider performs their task throw online. Peoples of the world forwarded to complete their task throw interment. In this perspective payment gateway service is established for e-commerce and other payment service. Most payment gateways ensure security, privacy of merchants and customers data and becomes trusted third-party payment gateways. Using web service, browser payment gateway founded a user-friendly financial transaction. This Reports goal is to develop a secured payment gateway software system using internet protocols. For e-commerce where merchant can integrate payment gateway system in their e-commerce websites. After visiting and buying products from e-commerce customer can pay payment throw this software and customer can hide their all data and information and merchant get payment in secured manner. This payment gateway software ensures effective, hassle-free and most secured gateways to complete their payments. Our plan: For e-commerce site, We are planning to develop and install a more user-friendly and secure electronic payment system than the other payment gateways which are currently available on the market. So , we are trying to implement and we offers:

- Hassle free payment
- Can be More secured
- Easy to use
- Can be easily integrate with all e-commerce site

Team Contribution

The individual specific contribution of each team members are presented in Table below :

ID	Name	Specfic Contribution
18-36743-1	Tafiquzzaman,Md	1.Project Deliverable 2.Project Milestones
20-41983-1	Ankita Saha	1.Project Overview 2.Software Development Project
18-39208-3	Abdullah Al Noman	1.Project Objective 2.Project Vision And Scope

1 Project Overview

The e-payment gateway project is a crucial project for any organization that aims to accept digital payments from its customers. The project involves the development and implementation of an online payment system that enables customers to pay for products and services through various online channels, such as credit cards, debit cards, e-wallets, and other electronic payment methods. The project management report provides a comprehensive overview of the e-payment gateway project. Including its

- objectives
- scope
- stakeholders
- timeline
- budget
- risks

and other key factors.

2 Software Development Project Management Plan

1. Firstly, we will define the project scope by clearly stating the goals and objectives of the project andlisting out the key features and functionalities that will be included in the software.
2. Next, we will develop a detailed outline of the development approach, timelines, and resources requiredto complete the project.
3. We will establish a project team consisting of developers, a project manager, and a quality assurancespecialist who will be responsible for executing the project plan.
4. To track progress, assign tasks, and communicate updates in real-time, we will set up a project management tool such as Click UP
5. We will prioritize features and functionalities based on their criticality to the success of the project.
6. We will conduct regular project meetings to review progress, identify issues, and make decisions asneeded.
7. We will monitor project risks such as delays in development or changes in user requirements, andimplement risk mitigation strategies as needed.
8. We will implement quality assurance measures to ensure that the Trade and Traders software meets allfunctional and non-functional requirements through rigorous testing and ongoing quality assurancethroughout the development process.
9. Finally, We will communicate project updates regularly to stakeholders through email, meetings, andstatus reports, to ensure that everyone is informed and engaged throughout the development process.

and other key factors.

3 Project Objective

The main objective of the e-payment gateway project is to provide customers with a secure, reliable, and user-friendly payment platform that enables them to pay for products and services online. The project aims to achieve the following objectives:

1. To develop an online payment system that meets the security, reliability, and usability standards required for digital payments.
2. To integrate the e-payment gateway system with the organization's existing online platforms, such as e-commerce websites, mobile apps, and other digital channels.
3. To ensure that the e-payment gateway system complies with the relevant regulations and standards, such as PCI DSS, GDPR, and other legal requirements.
4. To provide customers with a seamless payment experience that is fast, convenient, and hassle-free.

4 Project Vision and Scope

The scope of the e-payment gateway project :

1. Developing a secure and reliable e-payment gateway system that can process various types of electronic payments, such as credit cards, debit cards, e-wallets, and other digital payment methods.
2. Integrating the e-payment gateway system with the organization's existing online platforms, such as e-commerce websites, mobile apps, and other digital channels.
3. Testing and validating the e-payment gateway system to ensure that it meets the security, reliability, and usability standards required for digital payments.
4. Training the organization's staff and customers on how to use the e-payment gateway system effectively.
5. Implementing the necessary changes and upgrades to the e-payment gateway system to ensure that it remains up-to-date with the latest payment technologies and trends.

5 Project Milestone

A milestone is a specific point within a project's life cycle used to measure the progress toward the ultimate goal. Milestones in project management are used as signal posts for a project's start or end date, external reviews or input, budget checks, submission of a major deliverable, etc. A milestone is a reference point that marks a significant event or a branching decision point within a project.

project milestons:

1. Feasibility study: Completion of the feasibility study and determination of project viability.
2. Project plan: Development of a detailed project plan that includes a project schedule, budget, risk management plan, roles and responsibilities, communication plan, and change management plan.
3. Stakeholder engagement: Identification and engagement of key stakeholders, including customers, vendors, and regulatory bodies.

4. Digital payment gateway development: Development of the digital payment gateway, including user interface design, payment processing system, security measures, and integration with existing systems.
5. Testing and quality assurance: Thorough testing of the payment gateway to ensure functionality, security, and compliance with regulatory requirements.
6. Deployment: Deployment of the payment gateway, including communication with customers and vendors regarding the new payment options and training for employees.
7. Monitoring and control: Ongoing monitoring of project progress and implementation of corrective actions as needed. Conduct regular risk assessments and adjust the project plan as necessary.
8. Post-implementation review: Conduct a post-implementation review to evaluate the success of the project and document lessons learned.

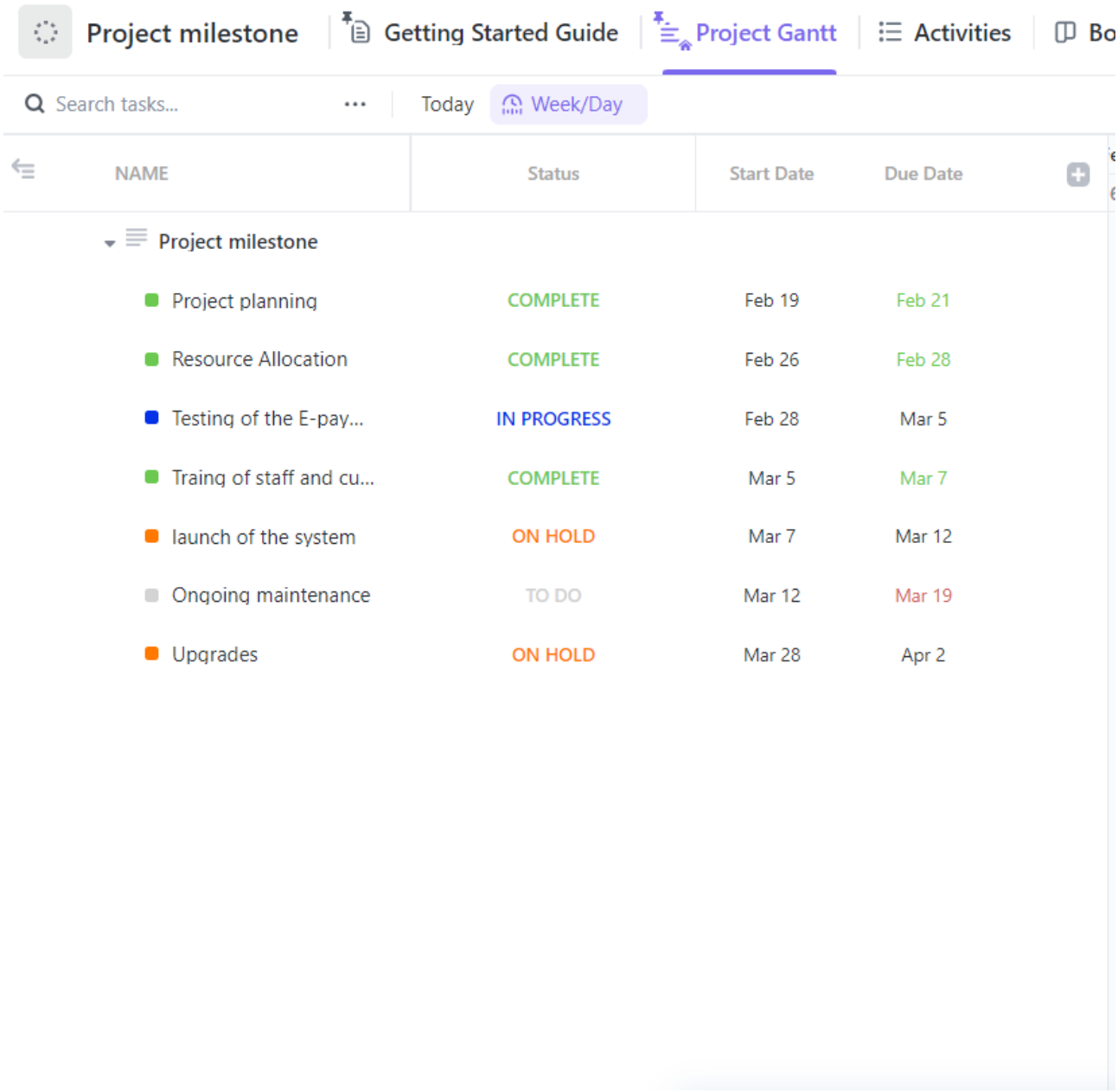


Figure 1: Milestone

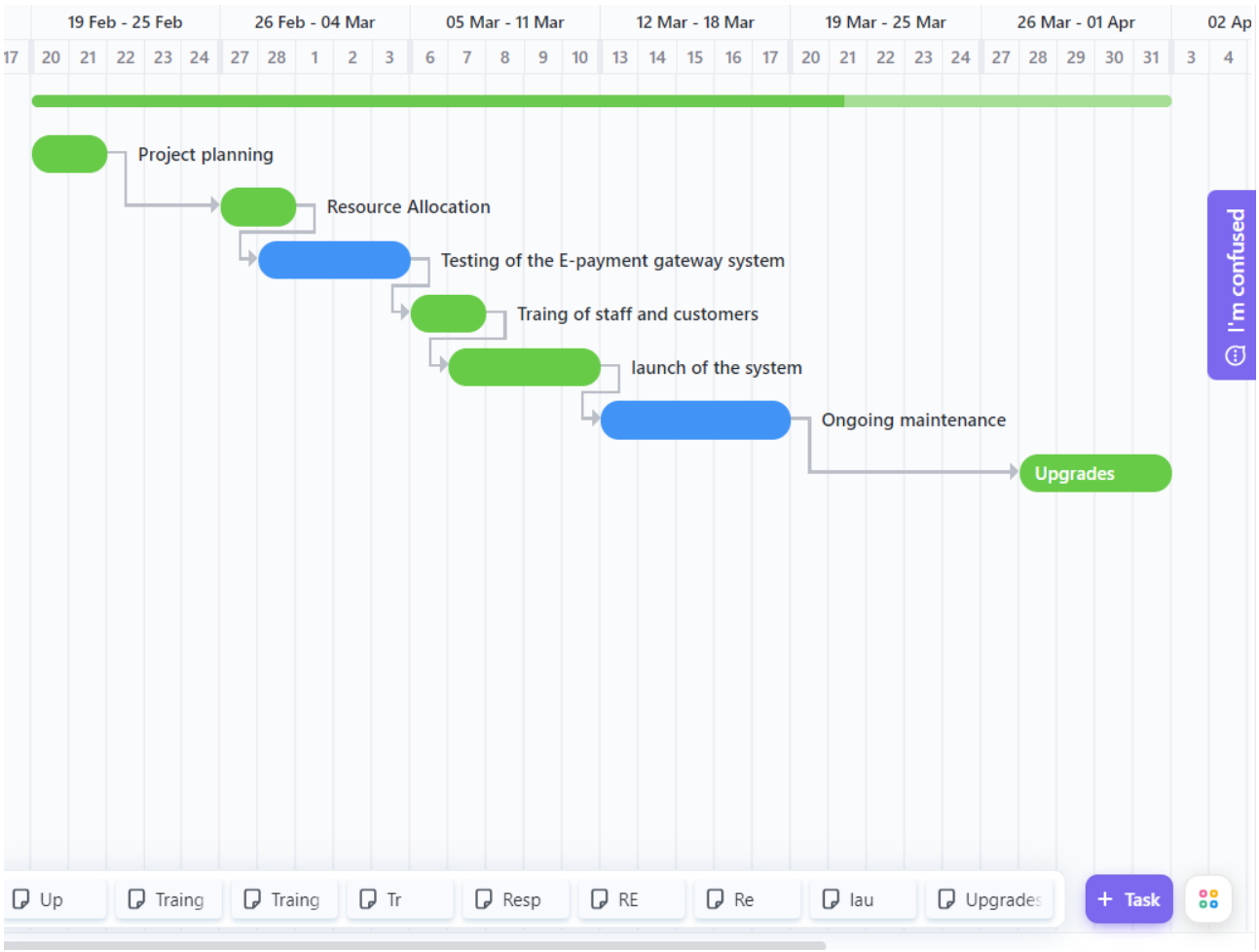


Figure 2: Milestone1

6 Project Timeline

The timeline for the e-payment gateway project includes the following milestones:

1. Project initiation: This phase includes the project planning, scoping, and resource allocation, which typically takes 1-2 weeks.
2. Development: This phase includes the design, development, and testing of the e-payment gateway system, which typically takes 4-6 months.
3. Implementation: This phase includes the integration of the e-payment gateway system with the organization's existing online platforms, training of staff and customers, and launch of the system, which typically takes 1-2 months.
4. Maintenance: This phase includes ongoing maintenance, upgrades, and support for the e-payment gateway system, which is a continuous process.

7 Stakeholders

7.1 The stakeholders of the e-payment gateway :

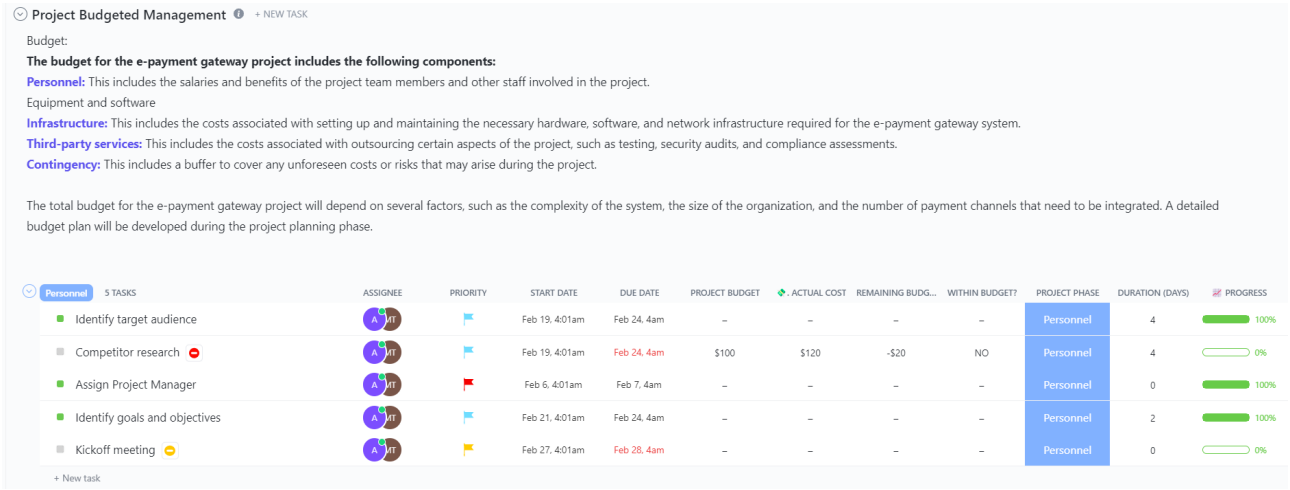
1. Project sponsors: The project sponsors are the individuals or groups who provide the funding and resources needed to complete the project.

2. Project managers: The project managers are responsible for planning, executing, and monitoring the project to ensure that it meets its objectives and deliverables.
3. Project team: The project team includes the developers, testers, and other staff members who are responsible for designing, building, and testing the e-payment gateway system.
4. Customers: The customers are the individuals or organizations who will be using the e-payment gateway system to make digital payments.
5. Regulators: The regulators are the government agencies or other authorities who are responsible for overseeing and enforcing the relevant regulations and standards related to digital payments.

8 Cost Estimation(Budget)

Cost estimation in project management is the process of forecasting the financial and other resources needed to complete a project within a defined scope. Cost estimation accounts for each element required for the project—from materials to labor—and calculates a total amount that determines a project's budget. An initial cost estimate can determine whether an organization greenlights a project, and if the project moves forward, the estimate can be a factor in defining the project's scope. If the cost estimation comes in too high, an organization may decide to pare down the project to fit what they can afford (it is also required to begin securing funding for the project). Once the project is in motion, the cost estimate is used to manage all of its affiliated costs in order to keep the project on budget. The budget for the e-payment gateway project includes the following components:

1. Personnel: This includes the salaries and benefits of the project team members and other staff involved in the project.
2. Equipment and software Infrastructure: This includes the costs associated with setting up and maintaining the necessary hardware, software, and network infrastructure required for the e-payment gateway system.
3. Third-party services: This includes the costs associated with outsourcing certain aspects of the project, such as testing, security audits, and compliance assessments.
4. Contingency: This includes a buffer to cover any unforeseen costs or risks that may arise during the project.



Project Budgeted Management + NEW TASK

Budget:

The budget for the e-payment gateway project includes the following components:

Personnel: This includes the salaries and benefits of the project team members and other staff involved in the project.

Equipment and software

Infrastructure: This includes the costs associated with setting up and maintaining the necessary hardware, software, and network infrastructure required for the e-payment gateway system.

Third-party services: This includes the costs associated with outsourcing certain aspects of the project, such as testing, security audits, and compliance assessments.

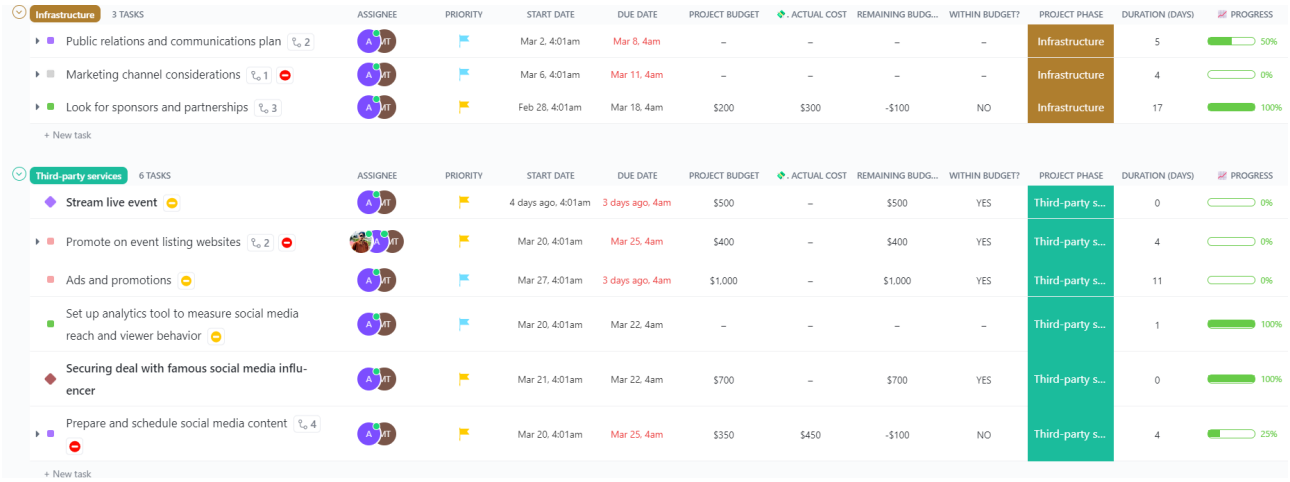
Contingency: This includes a buffer to cover any unforeseen costs or risks that may arise during the project.

The total budget for the e-payment gateway project will depend on several factors, such as the complexity of the system, the size of the organization, and the number of payment channels that need to be integrated. A detailed budget plan will be developed during the project planning phase.

Personnel 5 TASKS	ASSIGNEE	PRIORITY	START DATE	DUE DATE	PROJECT BUDGET	ACTUAL COST	REMAINING BUDG...	WITHIN BUDGET?	PROJECT PHASE	DURATION (DAYS)	PROGRESS
Identify target audience			Feb 19, 4:01am	Feb 24, 4am	–	–	–	–	Personnel	4	100%
Competitor research			Feb 19, 4:01am	Feb 24, 4am	$100	$120	-$20	NO	Personnel	4	0%
Assign Project Manager			Feb 6, 4:01am	Feb 7, 4am	–	–	–	–	Personnel	0	100%
Identify goals and objectives			Feb 21, 4:01am	Feb 24, 4am	–	–	–	–	Personnel	2	100%
Kickoff meeting			Feb 27, 4:01am	Feb 28, 4am	–	–	–	–	Personnel	0	0%

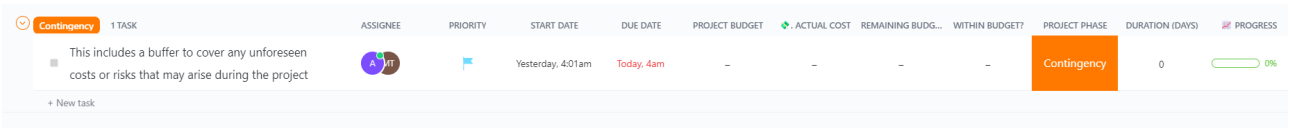
+ New task

Figure 3: Budget1



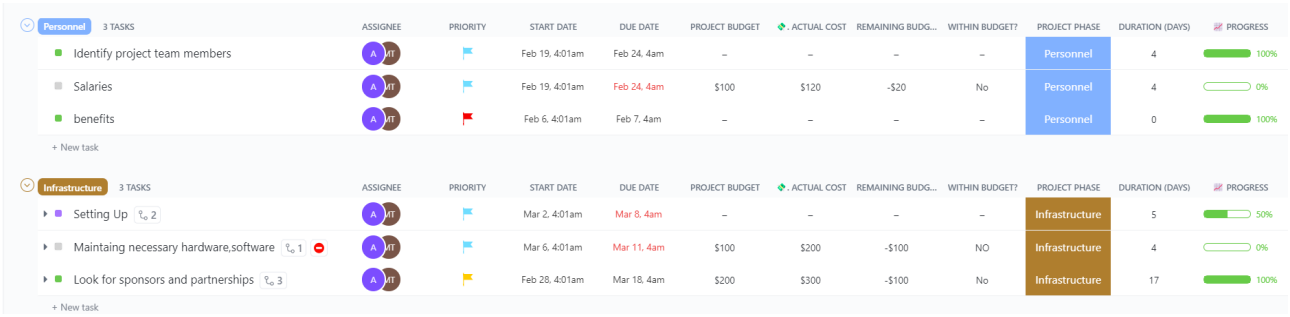
Infrastructure 3 TASKS	ASSIGNEE	PRIORITY	START DATE	DUE DATE	PROJECT BUDGET	ACTUAL COST	REMAINING BUDG...	WITHIN BUDGET?	PROJECT PHASE	DURATION (DAYS)	PROGRESS
Public relations and communications plan 2			Mar 2, 4:01am	Mar 8, 4am	–	–	–	–	Infrastructure	5	50%
Marketing channel considerations 1			Mar 6, 4:01am	Mar 11, 4am	–	–	–	–	Infrastructure	4	0%
Look for sponsors and partnerships 3			Feb 28, 4:01am	Mar 18, 4am	$200	$300	-$100	NO	Infrastructure	17	100%
+ New task											
Third-party services 6 TASKS	ASSIGNEE	PRIORITY	START DATE	DUE DATE	PROJECT BUDGET	ACTUAL COST	REMAINING BUDG...	WITHIN BUDGET?	PROJECT PHASE	DURATION (DAYS)	PROGRESS
Stream live event			4 days ago, 4:01am	3 days ago, 4am	$500	–	$500	YES	Third-party s...	0	0%
Promote on event listing websites 2			Mar 20, 4:01am	Mar 25, 4am	$400	–	$400	YES	Third-party s...	4	0%
Ads and promotions			Mar 27, 4:01am	3 days ago, 4am	$1,000	–	$1,000	YES	Third-party s...	11	0%
Set up analytics tool to measure social media reach and viewer behavior			Mar 20, 4:01am	Mar 22, 4am	–	–	–	–	Third-party s...	1	100%
Securing deal with famous social media influencer			Mar 21, 4:01am	Mar 22, 4am	$700	–	$700	YES	Third-party s...	0	100%
Prepare and schedule social media content 4			Mar 20, 4:01am	Mar 25, 4am	$350	$450	-$100	NO	Third-party s...	4	25%
+ New task											

Figure 4: Budget2



Contingency 1 TASK	ASSIGNEE	PRIORITY	START DATE	DUE DATE	PROJECT BUDGET	ACTUAL COST	REMAINING BUDG...	WITHIN BUDGET?	PROJECT PHASE	DURATION (DAYS)	PROGRESS
This includes a buffer to cover any unforeseen costs or risks that may arise during the project			Yesterday, 4:01am	Today, 4am	–	–	–	–	Contingency	0	0%
+ New task											

Figure 5: Budget3



Personnel 3 TASKS	ASSIGNEE	PRIORITY	START DATE	DUE DATE	PROJECT BUDGET	ACTUAL COST	REMAINING BUDG...	WITHIN BUDGET?	PROJECT PHASE	DURATION (DAYS)	PROGRESS
Identify project team members			Feb 19, 4:01am	Feb 24, 4am	–	–	–	–	Personnel	4	100%
Salaries			Feb 19, 4:01am	Feb 24, 4am	$100	$120	-$20	No	Personnel	4	0%
benefits			Feb 6, 4:01am	Feb 7, 4am	–	–	–	–	Personnel	0	100%
+ New task											
Infrastructure 3 TASKS	ASSIGNEE	PRIORITY	START DATE	DUE DATE	PROJECT BUDGET	ACTUAL COST	REMAINING BUDG...	WITHIN BUDGET?	PROJECT PHASE	DURATION (DAYS)	PROGRESS
Setting Up 2			Mar 2, 4:01am	Mar 8, 4am	–	–	–	–	Infrastructure	5	50%
Maintaing necessary hardware,software 1			Mar 6, 4:01am	Mar 11, 4am	$100	$200	-$100	NO	Infrastructure	4	0%
Look for sponsors and partnerships 3			Feb 28, 4:01am	Mar 18, 4am	$200	$300	-$100	No	Infrastructure	17	100%
+ New task											

Figure 6: Budget4

The total budget for the e-payment gateway project will depend on several factors, such as the complexity of the system, the size of the organization, and the number of payment channels that need to be integrated. A detailed budget plan will be developed during the project planning phase.

9 Risk Management

The e-payment gateway project carries several risks, including:

1. Security risks: The e-payment gateway system is a high-value target for cybercriminals, and any security breaches can result in financial losses and reputational damage.

2. Technical risks: The e-payment gateway system involves complex software and hardware components, and any technical issues or errors can result in system downtime or malfunction.

3. Regulatory risks: The e-payment gateway system must comply with various legal and regulatory requirements, and any non-compliance can result in fines or legal liabilities.

4. User adoption risks: The success of the e-payment gateway system depends on how well it is accepted and adopted by customers, and any usability issues or negative user experiences can result in low adoption rates.

To mitigate these risks, the project team will implement a risk management plan that includes risk identification, assessment, and mitigation strategies. The risk management plan will be regularly reviewed and updated throughout the project lifecycle.

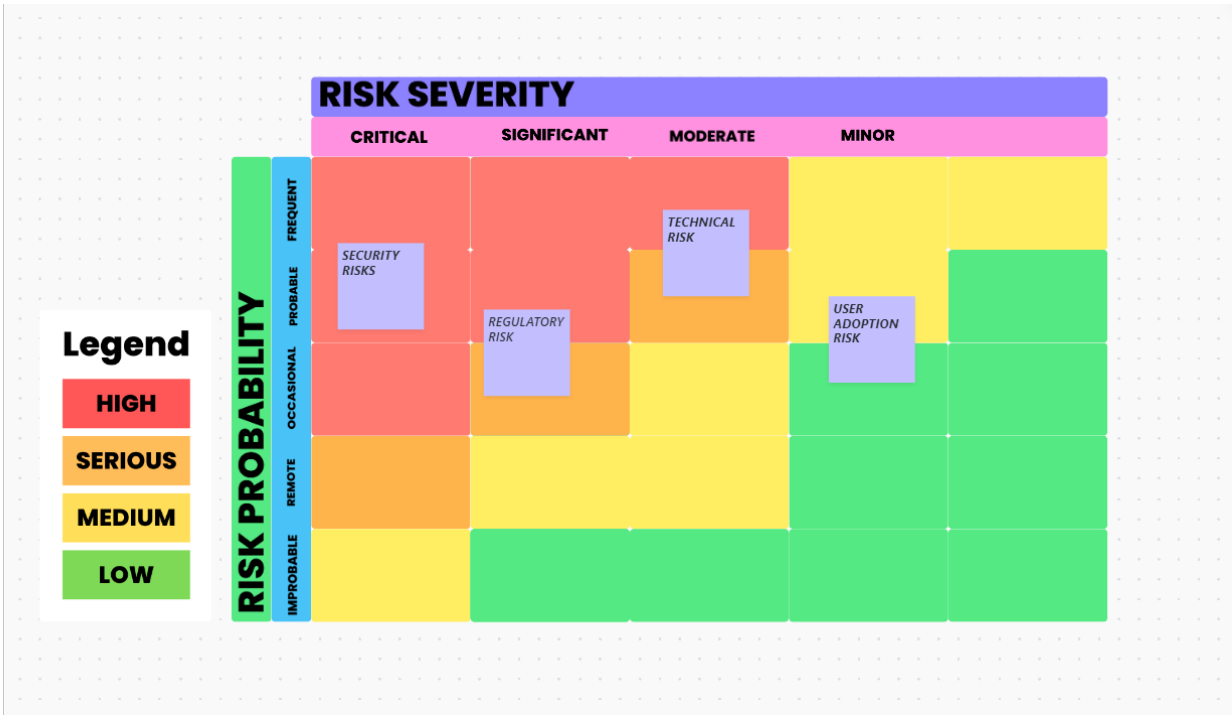


Figure 7: Risk Management

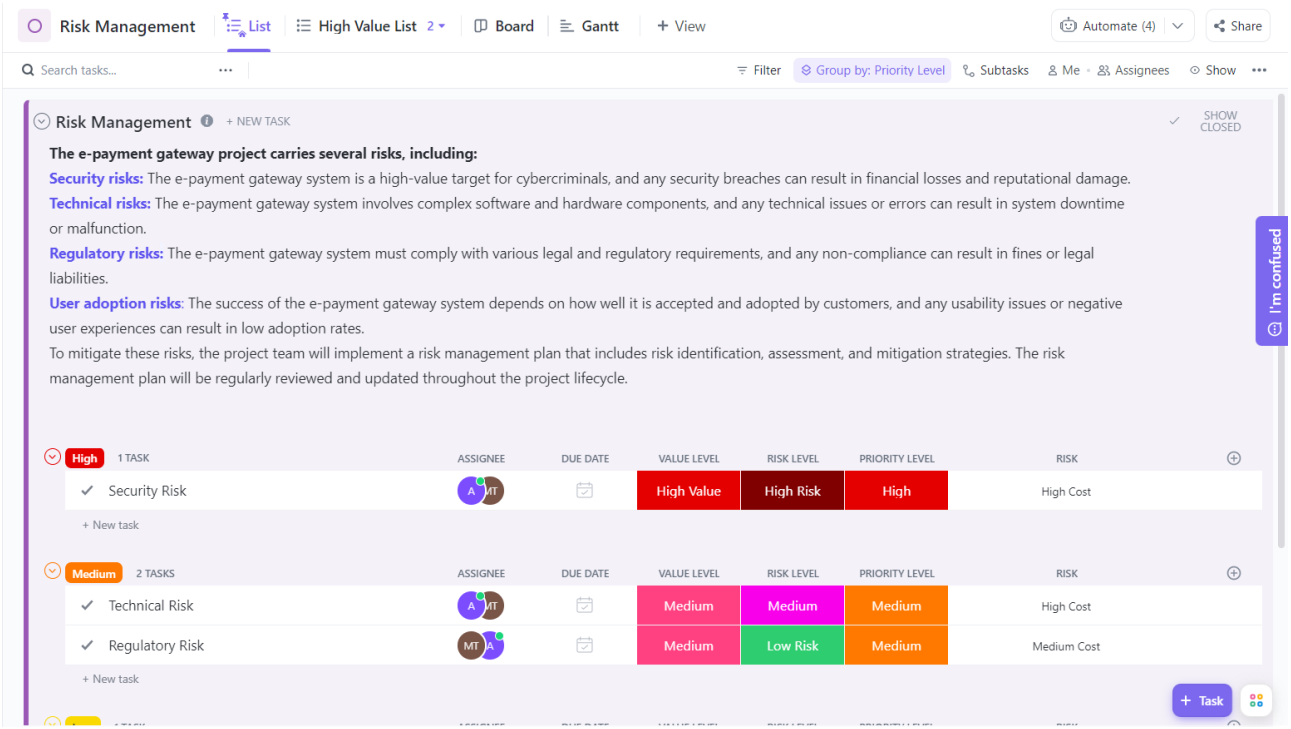


Figure 8: Risk

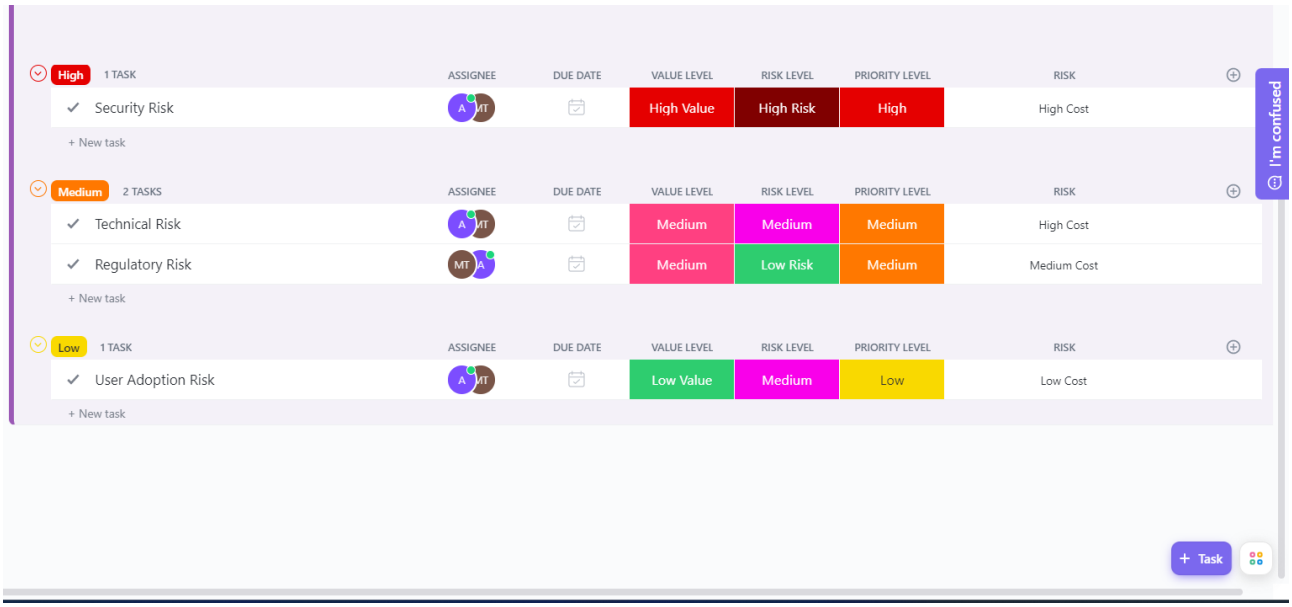


Figure 9: Risk1

10 Resource Management

Implementation of digital payment gateway project resource management :

1. Project Manager: The project manager is responsible for overseeing the entire project, ensuring that it is completed on time, within budget, and to the required quality standards. They should have experience in managing similar projects and possess strong leadership, communication, and organizational skills.

2. Development Team: The development team will be responsible for designing and building the payment gateway system. The team will include software developers, database administrators, and other technical specialists. The size of the team will depend on the complexity of the project and the required functionalities.

3. Quality Assurance Team: The quality assurance team will be responsible for testing the payment gateway system to ensure that it meets the required quality standards. The team will include testers, analysts, and other quality assurance specialists.

4. Infrastructure Team: The infrastructure team will be responsible for setting up and maintaining the hardware and software infrastructure required for the payment gateway system. The team will include network engineers, system administrators, and other technical specialists.

5. Marketing Team: The marketing team will be responsible for promoting the payment gateway system and attracting customers. The team will include marketing specialists, designers, and copywriters.

6. Legal Team: The legal team will be responsible for ensuring that the payment gateway system complies with all applicable laws and regulations. The team will include legal experts and compliance specialists.

7. Financial Team: The financial team will be responsible for managing the budget and financial aspects of the project. The team will include accountants, financial analysts, and other financial specialists.

8. Project Support Team: The project support team will be responsible for providing administrative support to the project, including scheduling meetings, preparing reports, and managing documentation.

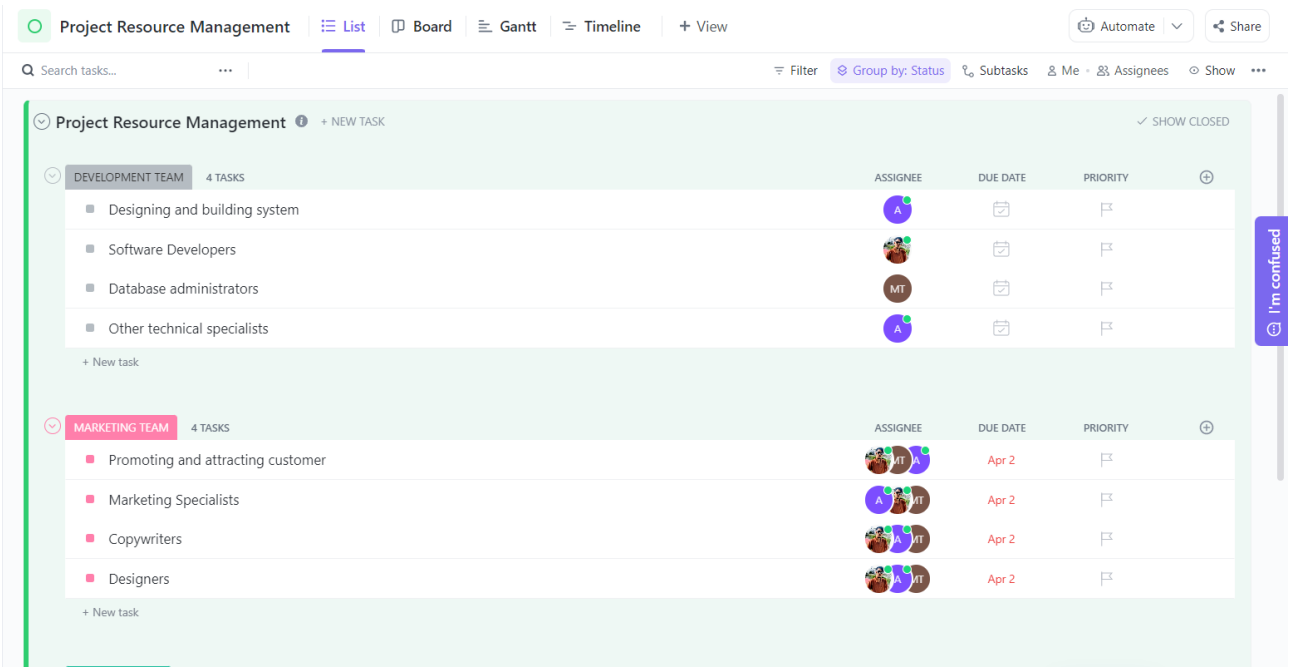


Figure 10: Resource Management

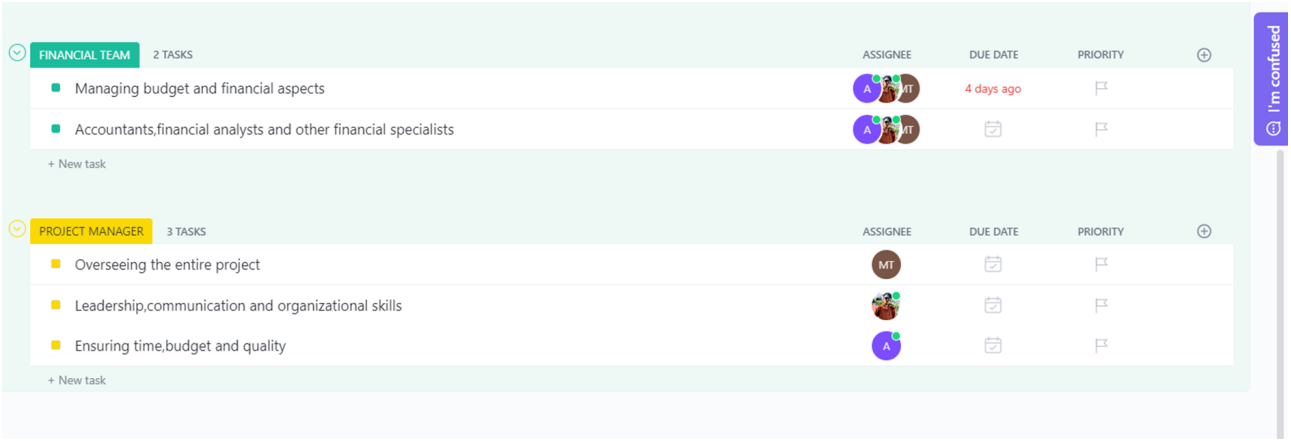


Figure 11: Resource Management1

11 Project Quality Control Checklist

Quality control consists of inspection, measurement and testing to verify that the project outputs meet acceptance criteria defined during quality planning. It is focused on preventing problems being passed on to the internal or external customer.

1. Accuracy: This refers to ensuring that all information in the report is correct and free of errors. It is important to double-check all figures, data, and other information to ensure that it is accurate and consistent throughout the report. Any discrepancies or inconsistencies should be corrected before finalizing the report.

2. Completeness: This refers to ensuring that the report covers all the required areas and provides a complete picture of the project. It is important to make sure that there are no gaps or missing information in the report that could affect its usefulness to stakeholders.

3. Clarity: This refers to ensuring that the report is written in clear, concise language that is easy to

understand. Technical terms and jargon should be explained clearly, and the report should be written in a way that is accessible to non-technical stakeholders.

4. Consistency: This refers to ensuring that the formatting and structure of the report are consistent throughout. All sections of the report should be structured in a similar way, and there should be no formatting or style issues that could affect its readability.

5. Relevance: This refers to ensuring that the report is relevant to the goals of the project and provides insights and recommendations that are useful to stakeholders. It is important to make sure that the report is focused on the key issues and provides actionable recommendations.

6. Validity: This refers to ensuring that the findings and conclusions of the report are based on reliable data and appropriate statistical methods. Any assumptions or limitations of the data should be clearly stated, and the analysis should be conducted in a way that is transparent and verifiable.

7. Presentation: This refers to ensuring that the report is presented in an organized and visually appealing way. Charts, graphs, and tables should be clearly labeled and easy to understand, and any visual aids should be used effectively to enhance the report.

8. Compliance: This refers to ensuring that the report complies with any relevant regulations or standards and addresses any legal or ethical considerations that may be relevant to the project. Any necessary disclaimers and disclosures should be included in the report to ensure that it is transparent and accurate.

Quality Control Checklist + NEW TASK

1 TASK	STATUS	PROGRESS	APPROVAL DATE	CRITICAL	MAJOR	MINOR	REMARKS
Project E-Payment Gateway 8 +	PENDING APPROVAL	38%	–	☐	☐	☐	–
Project E-Payment Gateway Accuracy	APPROVED	100%	8/10/22	☐	☑	☐	This refers to ensuring that all information in the report is correct and free of ...
Project E-Payment Gateway Completeness	PENDING APPROVAL	0%	Tomorrow	☐	☑	☐	This refers to ensuring that the report covers all the required areas and pro-...
Project E-Payment Gateway Clarity	APPROVED	100%	8/18/22	☑	☐	☐	This refers to ensuring that the report is written in clear, concise language that i...
Project E-Payment Gateway Consistency	NEW APPROVAL	0%	8/17/22	☑	☐	☐	This refers to ensuring that the formatting and structure of the report are con...
Project E-Payment Gateway Relevance	PENDING APPROVAL	0%	–	☐	☐	☐	This refers to ensuring that the report is relevant to the goals of the project and...
Project E-Payment Gateway Validity	APPROVED	100%	Tomorrow	☐	☐	☐	This refers to ensuring that the findings and conclusions of the report are base...
Project E-Payment Gateway Presentation	PENDING APPROVAL	0%	8/19/22	☑	☐	☐	This refers to ensuring that the report is presented in an organized and visually ...
Project E-Payment Gateway Compliance	NEW APPROVAL	0%	–	☐	☐	☐	This refers to ensuring that the report complies with any relevant regulations ...

+ New task

Figure 12: Quality Control Checklist

12 Conclusion

The e-payment gateway project is a critical initiative for any organization that wants to accept digital payments from its customers. The project involves developing and implementing a secure, reliable, and user-friendly payment platform that enables customers to pay for products and services through various online channels. The project management report provides a comprehensive overview of the project, including its objectives, scope, stakeholders, timeline, budget, risks, and other key factors. By following a structured and disciplined approach to project management, the project team can ensure the successful completion of the e-payment gateway project on time, within budget, and with high-quality standards.