

# Payment Gateway Integration Design Document

## 1. Overview

Brief summary of the payment gateway integration project.

## 2. Objectives

- Objective 1
- Objective 2
- Objective 3

## 3. Scope

- In-scope features
- Out-of-scope features

## 4. Payment Flow Diagram

[Insert payment flow diagram here]

## 5. Integration Approach

- Choose payment gateway(s)
- Integration method (API/hosted page/etc.)
- Authentication approach

## 6. API Endpoints

Endpoint	Method	Description
/api/payment/initiate	POST	Initiate payment transaction
/api/payment/callback	POST	Payment gateway callback
/api/payment/status	GET	Check payment status

## 7. Security Considerations

- SSL/TLS encryption
- Tokenization of sensitive data
- PCI-DSS compliance

## 8. Error Handling

- Error codes
- User feedback
- Logging and alerts

## 9. Testing Plan

- Unit testing
- Integration testing with gateway sandbox

- *End-to-end test cases*

## **10. Rollout Plan**

- *Deployment steps*
- *Rollback plan*
- *Monitoring post-launch*

## **11. Appendix**

- *Supporting documents*
- *Reference links*