

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

1. *Choose payment gateway(s)*
2. *Integration method (API/hosted page/etc.)*
3. *Authentication approach*

6. API Endpoints

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

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*