

Stripe Payment Integration - Test Plan Full

Objectives

This test plan outlines the approach for testing the Stripe payment integration on Flight Harbor, enabling users to pay by credit card for flight bookings, seat upgrades, and baggage add-ons. This is the first feature where money moves through the product. **Refunds are out of scope; the admin team will process any refunds manually.**

Test Items

- Payment for flight bookings
- Payment for seat upgrades
- Payment for baggage add-ons
- Transaction recording

Roles

Designation	Name
Tester/QA	Ross
Front-end Developer	Bernadette
Backend Developer	Joaquin
BA/PM	Olivia

Approach & Testing Types

- Functional testing (happy path, error handling)
- Negative testing (declined/invalid cards)
- Edge case testing (duplicate purchase, duplicate charge)
- Data integrity testing (transaction record accuracy, amount matching)
- Regression testing before sign-off

Test Environment

- Staging environment: <https://staging.flightharbor.com>
- Stripe test mode (sandbox): <https://dashboard.stripe.com/test>
- Test email inbox: qa-inbox@flightharbor.com, used to verify confirmation emails
- Stripe test card numbers used to simulate valid, declined, and invalid card scenarios

Entry Criteria

Testing requires at least a full happy path, from product selection through payment completion, before it can start. Anything less means testing incomplete or isolated pieces, which produces results that don't reflect how the feature actually behaves for a user. For example, testing the payment step alone without checkout leading into it won't catch issues like the wrong amount being passed through. **A full happy path** is the smallest slice that still represents a real user flow, so results from testing it are meaningful, and it becomes the foundation the rest of the test cases (negative, edge cases) build on top of.

Exit Criteria

Testing is considered complete when all test cases in this plan have been executed, and regression testing has been run to confirm the new payment feature didn't break existing flows, since this is the first time money moves through the product, an undetected regression here carries higher risk than usual. No critical bugs should remain unresolved, as these directly affect whether users can pay or whether charges are accurate. Non-critical bugs may be deferred, based on the team's decision, since not every issue needs to block a release, but the decision to defer should be a deliberate agreement.

Risks & Mitigation

Risk	Mitigation
First-time payment integration, higher chance of undiscovered edge cases	Prioritize negative and edge case testing early
Incorrect amount charged	Dedicated test case comparing checkout amount vs. charged amount
Duplicate charges from re-purchase or double submission	Explicit test cases for both scenarios

Transaction records inaccurate, affecting audits/support	Verify transaction data integrity as part of test cases
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QA Deliverables

- Test cases
- Test execution results
- Bug reports
- Regression test results

Test Cases

ID	Test Case	Preconditions	Steps	Expected Result
TC-01	As a user, I should be able to pay for a flight using valid card details	User has selected a flight and reached checkout	1. Enter valid card details 2. Click Pay	Payment succeeds
TC-02	As a user, I should be able to pay for a seat upgrade using valid card details	User has selected a seat upgrade and reached checkout	1. Enter valid card details 2. Click Pay	Payment succeeds
TC-03	As a user, I should be able to pay for a baggage add-on using valid card details	User has selected a baggage add-on and reached checkout	1. Enter valid card details 2. Click Pay	Payment succeeds
TC-04	As a user, I should see an error if my card is declined	User has reached checkout with any product	1. Enter card details known to trigger a decline (Stripe test card) 2. Click Pay	Error message is shown, payment does not go through
TC-05	As a user, I should see an	User has reached	1. Enter expired card or wrong	Error message is shown,

	error if my card details are invalid (e.g. expired, wrong CVV)	checkout with any product	CVV 2. Click Pay	payment does not go through
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Approval

Name	Role	Signature	Date
Ross	QA		
Taylor	PM		