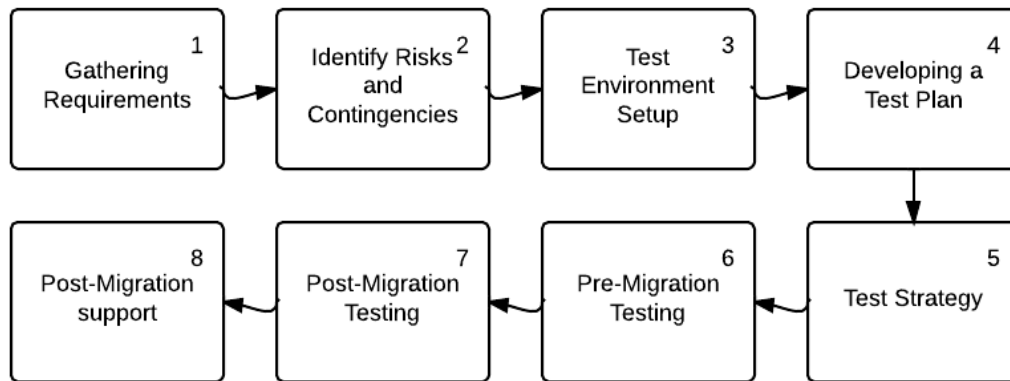


SoundCloud Payment flow migration test strategy.

Author – Sandesh Prasanna Kumar

These are the necessary steps to have a seamless transition from the old SoundCloud payment system to the new one.



Gathering Requirements

Before testing begins, we should have a full understanding of the proposed payment system. A good place to start is to identify the shortfalls of the current payment system. Understanding the new system completely is very important as it will help in reducing the risks at the later stage.

Identify Risks and Contingencies

Risks should be identified and contingency plans should be developed.

Test Environment Setup

Setting up a test environment to evaluate new payment flow is required for successful deployment. When new, complex technology is being introduced, it is necessary to do a thorough system evaluation.

The test environment should be a model of the pre-implementation production environment.

Developing a Test Plan

A test or migration plan is essential for successful new payment system implementation. All features identified in the requirements gathering phase should be included in the test plan.

These are the few test scenarios I have identified as key scenarios.

Key Test scenarios

- Go pro payment end to end flow
- Go unlimited payment end to end flow
- Gift - Go pro payment end to end flow
- Gift - Go unlimited payment end to end flow
- Monthly subscription flow
- Annual subscription flow
- Pro yearly to unlimited yearly conversion flow
- In-app purchase from iOS and Android apps
- Cancel subscription flow

- Monthly subscription to annual subscription conversion flow
- Payment rejected with wrong payment details
- Payment successful with right payment details
- Auto renewal - monthly, yearly
- Existing plans conversion – From premium to pro
- Payment types – different credit cards and PayPal
- Individual purchase flow
- Company purchase flow
- Monthly unsupported payment type - PayPal

Test Strategy

Prior to testing, a strategy should be established that defines specific testing goals and their results and benefits.

Pre-Migration Testing

This is a key phase in the migration. In this phase, the new payment system is properly tested in the test environment. All the identified tests should pass. All issues should be recorded and properly dealt with.

Types of testing done during Pre-Migration testing phase

- Functional test
- Regression test
- Performance test
- Security test
- Portability test
- Fallback & recovery (during migration and after)

Post-Migration Testing / Production Testing

Once the migration is completed, a round of sanity testing is done. Also, all high priority functionalities and key features should be tested again. It is not advised to test the entire payment functionality on the production environment.

Post-Migration Support

During this stage, the production environment should be under constant monitoring. If any issue arises, then a fix should be provided. If it's a major issue, then the system should be reverted back to the old one.