

## Sprint Retrospective Notes (Updated for Sprint 3)

Sprint: Sprint 3

Date: July 21, 2025

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### Executive Summary

The team successfully transitioned from manual UI testing to manual API testing using Postman. We created a comprehensive Postman collection and executed tests for all required API endpoints. A key win was our ability to perform advanced validations on status codes and response bodies. However, we faced challenges with token management and the complexity of certain API payloads. These insights will be crucial for the upcoming API automation sprint.

### The Wins

- **API Coverage:** We successfully created and executed tests for all API endpoints in the Postman Collection, ensuring full coverage for the defined API requirements.
- **Effective Validations:** The team went beyond basic functionality, implementing robust validations for **HTTP status codes** (e.g., 200, 400, 401) and **response body correctness**, which led to the discovery of several key API defects.
- **Structured Test Artifacts:** The Postman Collection was well-organized with dedicated folders for Authentication and Passenger Services, making it easy to navigate and execute tests.
- **Early Defect Identification:** By testing the APIs directly, we were able to find bugs in the backend logic before they could impact the UI, saving significant time and effort.

### The Challenges

- **Token Management:** The authentication token has a short expiry time, which required frequent re-authentication. This was cumbersome for some team members during repeated test runs.
- **Inconsistent Responses:** The Accept header could switch between JSON and XML. While we tested both, this inconsistency added a layer of complexity to our validation scripts.

### Action Items for Next Sprint

- **Standardize Postman:** Create a reusable script in the **Pre-request Script** tab of the Postman Collection to automatically fetch and store a new authentication token before each API call. This will simplify token management.
- **Document API Payloads:** The team will create an internal wiki page or a shared document that provides clear examples of correctly formatted API payloads to avoid future confusion.