

# STR\_API\_Testing\_Project

**Project name:** KSP API Testing Project  
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## 1. Objective

The purpose of this report is to summarize the results of REST API testing performed for the KSP e-commerce backend. Testing was executed in Postman, focusing on the main API endpoints: login, products, cart, and order.

## 2. Test Summary

| Metric           | Result  |
|------------------|---|
| Total Test Cases | 10  |
| Passed           | 8   |
| Failed           | 2   |
| Execution Period | 3–5 November 2025   |
| Test Tool        | Postman   |
| Environment      | Mock API Server ( <a href="https://api.ksp.shop">https://api.ksp.shop</a> ) |

## 3. Failed Test Cases

| ID        | Endpoint | Description                 | Expected Result                             | Actual Result                               |
|-----------|----------|-----------------------------|---|---|
| TC_API_02 | /login   | Login with missing password | 400 Bad Request, message 'Missing password' | 200 OK returned with empty body             |
| TC_API_04 | /cart    | Add product without token   | 401 Unauthorized                            | 200 OK returned, cart created without token |

## 4. Bugs Found

| ID      | Endpoint | Description  | Severity | Status |
|---------|----------|--|----------|--------|
| BUG_001 | /login   | API does not return correct error message when password is missing | Medium   | Open   |
| BUG_002 | /cart    | Unauthorized access allowed without token                          | High     | Open   |

## 5. Observations

All other endpoints (/products, /cart [authorized], /order) worked as expected. Response times were within acceptable limits (<1s). Authentication logic requires improvement — missing validation for request headers and error messages.

## 6. Conclusion

The API is functionally stable, but security validation is incomplete. After fixing the identified defects, a regression cycle should be performed focusing on /login and /cart authorization logic.