

PVSchool – Error and Exception Test Scenarios

Purpose

This document describes test scenarios focused on error handling, invalid input, configuration issues, and database failures.

Error Scenario 1 – Invalid Database Credentials

Steps:

1. Set invalid database credentials in config.yaml.
2. Start the application.

Expected Result: Application fails gracefully with a clear error message.

Error Scenario 2 – Database Unavailable

Steps:

1. Stop the MySQL server.
2. Start the application.

Expected Result: Application reports database connection failure.

Error Scenario 3 – Invalid Input Data

Steps:

1. Send invalid or incomplete data to an API endpoint.

Expected Result: Application returns validation error.

Error Scenario 4 – Missing Import File

Steps:

1. Trigger import without required CSV file present.

Expected Result: Application reports missing file error.

Error Scenario 5 – Invalid Import File Structure

Steps:

1. Use an import file with incorrect columns.

Expected Result: Import is rejected with descriptive error message.

Error Scenario 6 – Duplicate Data

Steps:

1. Attempt to import duplicate records.

Expected Result: Application prevents duplication or reports error.

Error Scenario 7 – Non-existing ID

Steps:

1. Request data using a non-existing ID.

Expected Result: Application returns not-found error.

Error Scenario 8 – Configuration File Missing

Steps:

1. Remove or rename config.yaml.
2. Start the application.

Expected Result: Application stops with configuration error message.