

# **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.