

# UnBox3D TestRail Report – Snapshot 2

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## 1 Overview

This Snapshot 2 TestRail report documents the early testing of UnBox3D. At this stage, implemented features include:

- Splash screen and placeholder UI with an Import button and viewport.
- Basic model import using Assimp for .obj files.
- Initial OpenGL rendering using OpenTK.

The objective of this testing cycle was to verify that the application launches successfully, imports simple .obj files, and renders them without crashing.

## 2 Test Environment

- OS: Windows 10 / 11 (64-bit)
- Framework: .NET
- Graphics: OpenGL via OpenTK
- Build: Snapshot 2 tagged build
- Test Models: cube.obj, low-poly.obj, invalid.txt

## 3 Test Cases

ID	Title	Preconditions	Steps	Expected Result
TC-2-01	Application Launch	Build installed	1. Open executable.	Application launches to splash screen then main UI.

ID	Title	Preconditions	Steps	Expected Result
TC-2-02	UI Layout Loads	App launched	Observe main window.	UI displays Import button + viewport.
TC-2-03	Import Button Enabled	App launched	Check Import button state.	Button is active and clickable.
TC-2-04	Valid .obj Import	Valid .obj available	1. Click Import 2. Select .obj file	Model loads without error.
TC-2-05	Model Visible in Viewport	Model imported	Observe viewport.	Model renders centered and visible.
TC-2-06	Invalid File Handling	Invalid file available	1. Import invalid file	App shows clear error; no crash.
TC-2-07	Large Model Stability	Large .obj available	1. Import large model	App remains responsive and does not crash.
TC-2-08	Basic Camera Interaction	Model loaded	Attempt rotate/zoom (if implemented).	If implemented: interacts smoothly. If not: app safely ignores.

## 4 Test Run Results

ID	Result	Tester	Notes
TC-2-01	Passed	Alexander Ramirez	Launches in 2 seconds.
TC-2-02	Passed	Vivian Casas	UI elements load correctly.
TC-2-03	Passed	Jacky Lim	Import button active by default.
TC-2-04	Passed	Nicholas Sisneros	cube.obj imports successfully.
TC-2-05	Passed	Nicholas Sisneros	Viewport displays model correctly.
TC-2-06	Failed	Alexander Ramirez	Error message unclear; behavior correct.
TC-2-07	Passed	Vivian Casas	Large model import slow but stable.
TC-2-08	Blocked	Jacky Lim	Camera not yet implemented.

## 5 Metrics

- Total Tests: 8

- Passed: 6
- Failed: 1
- Blocked: 1
- Pass Rate: 75%

## 6 Conclusion

Snapshot 2 confirms that import + rendering works correctly and the base UI behaves as expected. Camera features will be added next snapshot.