

# UnBox3D TestRail Report – Snapshot 4 (Final)

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## 1 Overview

Snapshot 4 adds:

- 2D layout export via Blender paper model exporter (.svg)
- Final UI polish
- Full end-to-end workflow testing

This snapshot validates final deliverable readiness.

## 2 Test Environment

- Windows 10/11
- Blender with paper model exporter add-on
- OpenTK/OpenGL rendering
- Snapshot 4 final build

## 3 Test Cases

ID	Title		Preconditions		Steps	Expected Result
TC-4-01	Regression: Im-	port	Final build in-	stalled	Import cube.obj	Model loads + renders.
TC-4-02	Pipeline	Regression	Scene exists		Filter → Decimate	Pipeline produces stable output.
TC-4-03	SVG Export (Simple)		Blender configured	config-	1. Import cube 2. Export 2D layout	.svg generated without error.
TC-4-04	SVG Opens	Correctly	.svg exists		Open in browser	Renders flattened layout properly.

ID	Title		Preconditions		Steps	Expected Result
TC-4-05	Export Model	Medium	Medium exists	model	Import → Filter → Decimate → Export	.svg generated; completes reasonably fast.
TC-4-06	Invalid Path	Export	User selects invalid directory		Trigger export	Clear error, no crash.
TC-4-07	UI Polish		Final UI loaded		Inspect UI	No placeholder text, consistent layout.
TC-4-08	Many Small Parts		Complex scene		Import → Filter → Export	Stable behavior; output created.
TC-4-09	Full E2E Workflow		Final build		Import → Filter → Decimate → Export → View	Successful full pipeline.
TC-4-10	Exporter Handling	Failure	Break exporter intentionally		Attempt export	Graceful error message.

## 4 Test Run Results

ID	Result	Tester	Notes
TC-4-01	Passed	Alexander Ramirez	No regressions.
TC-4-02	Passed	Vivian Casas	Output stable.
TC-4-03	Passed	Jacky Lim	SVG looks clean.
TC-4-04	Passed	Nicholas Sisneros	Opens in Chrome + Inkscape.
TC-4-05	Passed	Vince Wang	Export 12 seconds.
TC-4-06	Passed	Vivian Casas	Error dialog correct.
TC-4-07	Passed	Nicholas Sisneros	UI polished and consistent.
TC-4-08	Passed	Alexander Ramirez	Heavy model handled.
TC-4-09	Passed	Jacky Lim	Pipeline complete.
TC-4-10	Passed	Vince Wang	Error handled safely.

## 5 Metrics

- Total Tests: 10
- Passed: 10
- Failed: 0
- Pass Rate: 100%

## 6 Conclusion

All final pipeline features function correctly, including 2D export. UnBox3D meets the expected deliverables for the CS3338 final project.