
User Cases

for

Rapid LDraw Parts Definition

Version 1.0

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PSU, Fall Capstone 2018

Use case name	STL file selection
Participating actors	Initiated by User
Flow of events	User enter the stl file path or click on Browse input, select the file in pop-up window. System displays stl file path in the text box. System displays stl file path in the log panel.
Entry condition	When the program is opened.
Exit condition	The file could be found and is in correct extension.
Quality requirements	User could using file path or browsing to select the file.

Use case name	Converting file
Participating actors	Initiated by User
Flow of events	User clicks on “Convert to Ldraw” button. System validates in/output file path and file. System validates metadata text. System starts converting. System displays every converting informations (every 5 sec) in log panel. System notices user (through log panel) that the conversion is done.
Entry condition	When there is a correct file path in the text box of Select STL file
Exit condition	The file is successfully converted.
Quality requirements	(In the requirement paper)

Use case name	Pausing while converting file
Participating actors	Initiated by User
Flow of events	User clicks on “Pause” System pauses the conversion. System notices User through log panel that the conversion is pausing.

Entry condition	The file is in midway converting.
Exit condition	The user clicks Continue or Cancel.
Quality requirements	The conversion is halt. The program doesn't use any computer resources or just very little to maintain the conversion continuity.

Use case name	Continuing converting file
Participating actors	Initiated by User
Flow of events	User clicks on "Resume" System resumes the conversion. System notices User through log panel that the conversion is resuming.
Entry condition	The file's converting is halt.
Exit condition	Resume the converting.
Quality requirements	Resuming/ continuing the conversion.

Use case name	Canceling the conversion
Participating actors	Initiated by User
Flow of events	User clicks on "Cancel" System stops the conversion. System notices User through log panel that the conversion is cancel. System cleans up all information and prepare for new conversion.
Entry condition	Any time in the conversion from the start until the end.
Exit condition	Cancel the conversion.
Quality requirements	Cancel the conversion immediately.

Use case name	Saving converted file.
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Participating actors	Initiated by User
Flow of events	User clicks on "Save conversion" System saves the conversion by using input information. System notices User through log panel that the conversion is saved.
Entry condition	After the conversion is done
Exit condition	The converted file is saved successfully.
Quality requirements	The converted file will be on disk.

Use case name	Quit the program
Participating actors	Initiated by User
Flow of events	User clicks on "X" button on the corner of program The program is exit.
Entry condition	Anytime
Exit condition	The program exits normally
Quality requirements	Clean up everything (save setting/ clean up temp file)