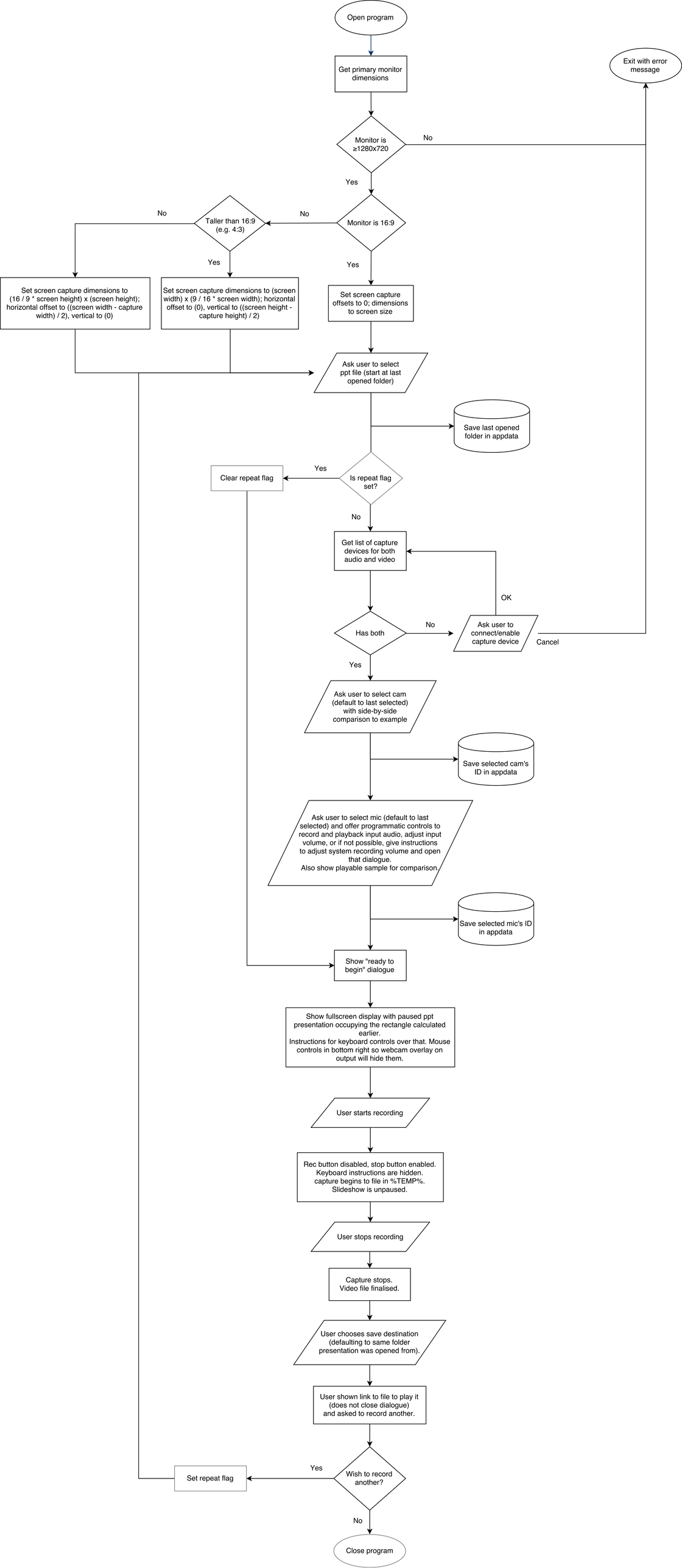
Open program
Get primary monitor dimensions
Exit with error message
Monitor is ≥1280x720
No
Yes
Monitor is 16:9
No
Taller than 16:9 (e.g. 4:3)
No
Yes
Yes
Set screen capture dimensions to (16 / 9 * screen height) x (screen height); horizontal offset to ((screen width - capture width) / 2), vertical to (0)
Set screen capture dimensions to (screen width) x (9 / 16 * screen width); horizontal offset to (0), vertical to ((screen height - capture height) / 2)
Set screen capture offsets to 0; dimensions to screen size
Ask user to select ppt file (start at last opened folder)
Save last opened folder in appdata
Is repeat flag set?
Yes
Clear repeat flag
No
Get list of capture devices for both audio and video
OK
Has both
No
Ask user to connect/enable capture device
Cancel
Yes
Ask user to select cam (default to last selected) with side-by-side comparison to example
Save selected cam's ID in appdata
Ask user to select mic (default to last selected) and offer programmatic controls to record and playback input audio, adjust input volume, or if not possible, give instructions to adjust system recording volume and open that dialogue.
Also show playable sample for comparison.
Save selected mic's ID in appdata
Show "ready to begin" dialogue
Show fullscreen display with paused ppt presentation occupying the rectangle calculated earlier.
Instructions for keyboard controls over that. Mouse controls in bottom right so webcam overlay on output will hide them.
User starts recording
Rec button disabled, stop button enabled.
Keyboard instructions are hidden.
capture begins to file in %TEMP%.
Slideshow is unpaused.
User stops recording
Capture stops.
Video file finalised.
User chooses save destination (defaulting to same folder presentation was opened from).
User shown link to file to play it (does not close dialogue) and asked to record another.
Wish to record another?
Yes
Set repeat flag
No
Close program