Name: Robert Allen

Project: Paint

Requirements:
- **US-01** As a user I can save my image.
- **US-02** As a user I can load an image.
- **US-03** As a user I can rotate the canvas.

Use Case Document(s):

Use Case ID:	US-01
Use Case Name:	As a user I can save my image.
Description:	Users are able to write their images to a file for later editing.

Actors	Users		
Pre-conditions:	A user has created or opened an image.		
Post-conditions:	A file has been written to the path in the file system specified by the user.		
Frequency of Use:	Hourly		
Flow of Events			
		Actor Action	**System Response**
	1	Click on File->Save as	Bring up the save dialog
	2	Enter a path to save to and click the Save button.	Write the file to the filesystem at the specified path.
Variations:	1. User clicks on File->Save, then write to the prespecified path without bringing up the save dialog.		
Exceptions			
Developer Notes:			

Use Case ID:	US-02
Use Case Name:	As a user I can load an image
Description:	Users are able to load images with the correct format.

Actors	Users		
Pre-conditions:	None		
Post-conditions:	The file has been loaded into the program and is visible.		
Frequency of Use:	Daily		
Flow of Events			
		Actor Action	**System Response**
	1	Click on File->Open	Bring up the open dialog
	2	Enter a path of an image to load.	Check if the image is in the correct format and if so open the file and display its contents on the canvas.
Variations:	1. If user has an image open already prompt to save or discard current image.		
Exceptions			
Developer Notes:			

Use Case ID:	US-03
Use Case Name:	As a user I can rotate the canvas.
Description:	Users are able to rotate the entire canvas. This rotation passes on to every object on the canvas.

Actors	Users
Pre-conditions:	A user has an image open.
Post-conditions:	The canvas and all objects on the canvas have been rotated by the degrees and in the direction specified.
Frequency of Use:	Daily
Flow of Events	

	Actor Action	System Response
1	Click on Edit-> Canvas->Rotate	Bring up the rotate Dialog
2	Specify the direction (CW or CCW) and the amount to rotate the image.	Rotate the canvas and every object on the canvas.

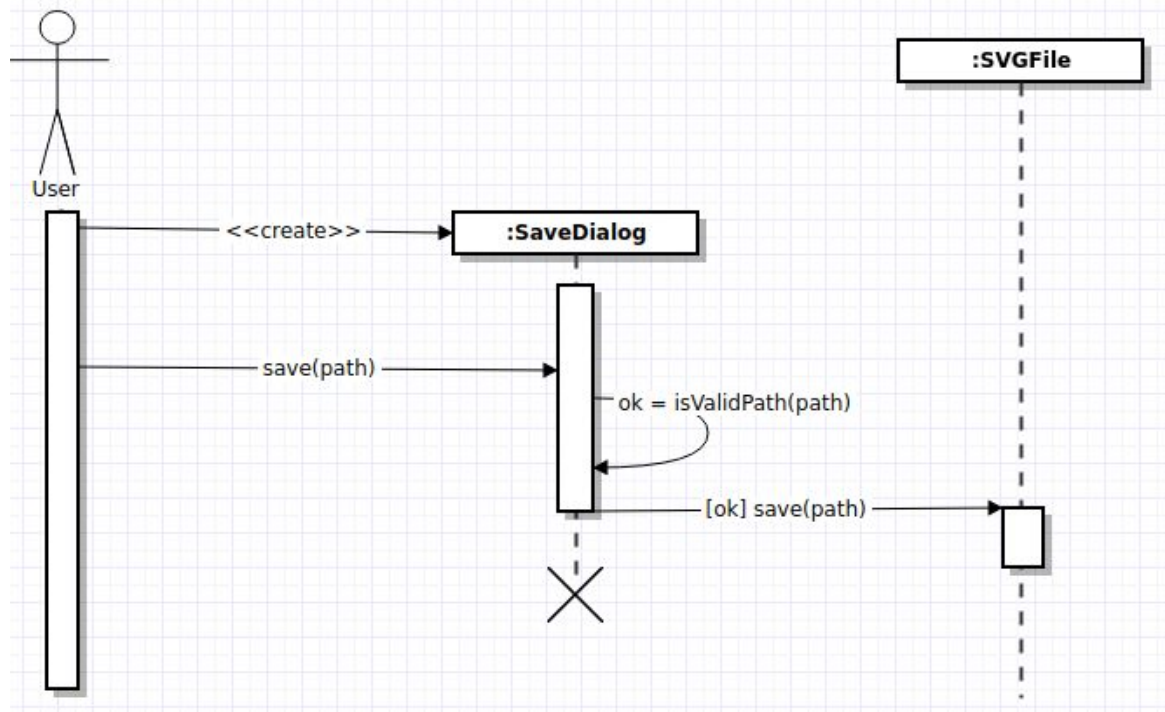| Variations:	
Exceptions	
Developer Notes:	

Activity Diagram:

US-01 Save Image, Robert Allen

User	SaveDialog	System	SVGFile

● (start)

Click File | Save or Save As

[save] Check Valid Path

[save as]

Bring up the save dialog

Specify path to save file

Press Button

[save] Check Valid Path

Valid

Invalid

Notify Bad Path

[close or cancel]

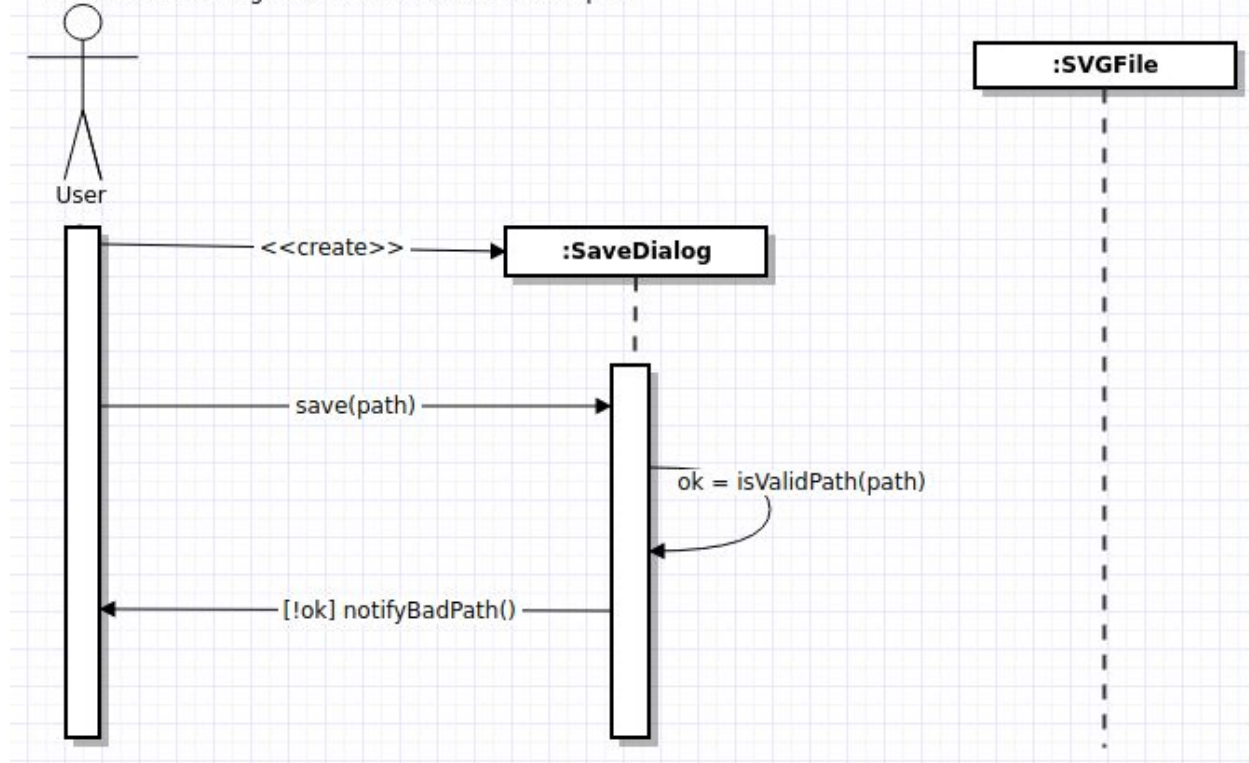**Close the Dialog**

Write File to Disk

● (end)
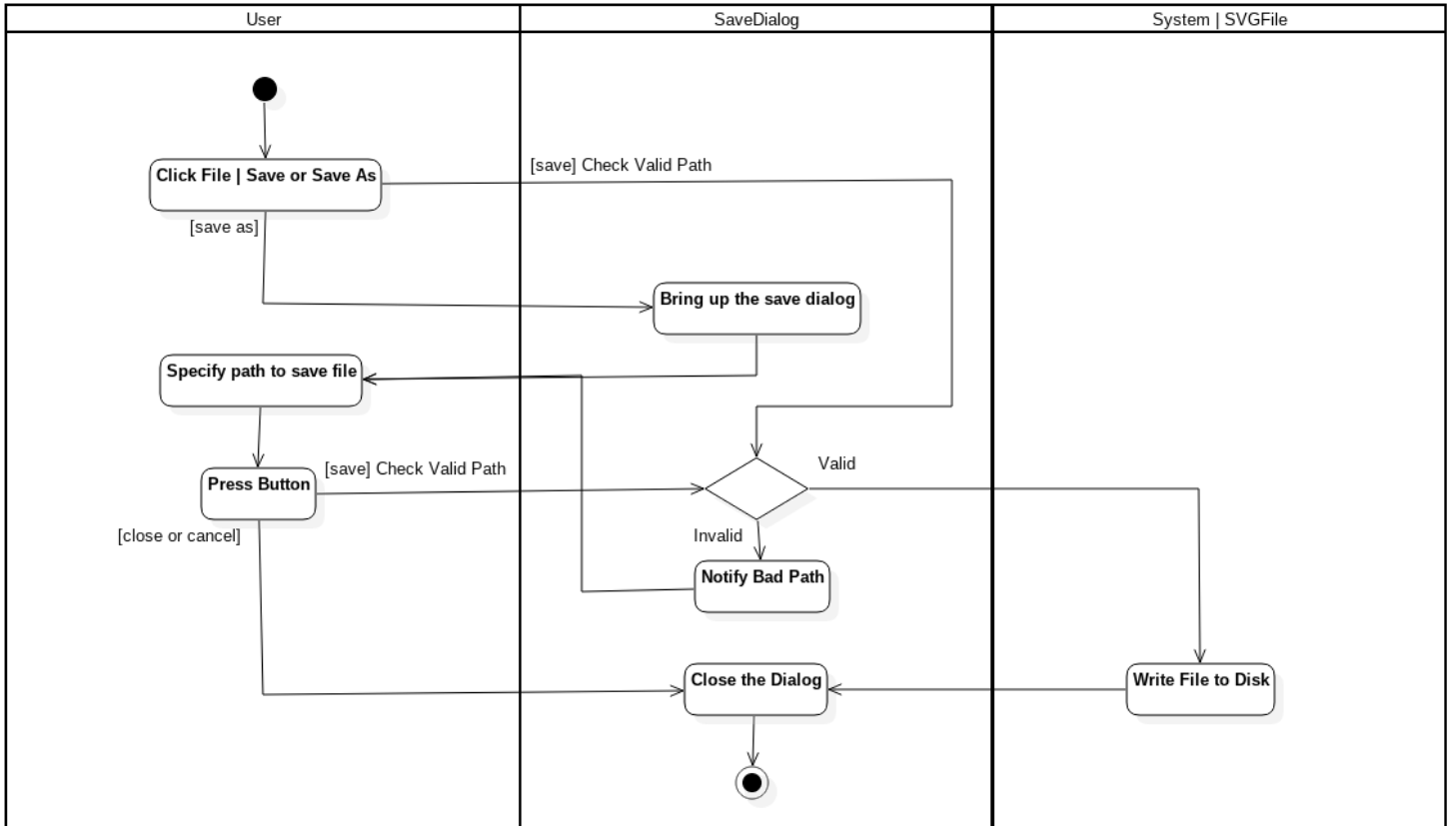
User Interactions:

US-01: Save dialog when the save is successful

US-01: Save dialog when the user enters a bad path

US-01: Save dialog when hitting cancel or close

User

:SVGFile

<<create>>

:SaveDialog

cancel()