Name : Sneha Parmar

Project : Nextbox

Requirements:

      (User)UR 06: Download files

      (User)UR 07: View and edit text file

      (User)UR 10: View usage

      (Admin)UR 16: Change the activation status

      (User) UR 09: Search for file or directory

Use Case Documents

Use Case ID:	UC 12
Use Case Name:	Download files
Description:	Normal user can download files (zipped directory) with all constituent files and directories

Actors:	User	
Pre-conditions:	User is logged in, has active status, he is on the file navigator at the desired navigation path where he wants to download files	
Post-conditions:	User gets the zipped file of the directory he wanted.	
Frequency of Use:	About once in 15 days on average	
Flow of Events:	**Actor Action**	**System Response**
	1. Click on download button	Create a zipped file of everything within directory. Send file to user
Variations:		
Exceptions:		
Developer Notes:	Zipped file format for directory could be tar.gz/ .zip	

Use Case ID:	UC 13
Use Case Name:	View text file
Description:	User should be able to view text files that have been uploaded previously

Actors:	User	
Pre-conditions:	User is logged in, has active status, he is on the file navigator at the desired navigation path where he wants to view files	
Post-conditions:	User can see contents of the file and use common controls like scroll	
Frequency of Use:	Often (about 3 times a week on average)	
Flow of Events:	**Actor Action**	**System Response**
	1. Select a file to view	

	2.	Click on view button.	Check if the file is a text file, if it is, return the entire contents of file to display
	3.	View file by using controls like scroll	
Variations:			
Exceptions:	If not a text file error message is returned		
Developer Notes:	Text file: .txt extension		

Use Case ID:	UC 24
Use Case Name:	Edit text file
Description:	User should be able to edit text files that have been uploaded previously

Actors:	User		
Pre-conditions:	User is logged in, has active status, he is on the file navigator at the desired navigation path where he wants to edit files		
Post-conditions:	Edited file is saved in the file system		
Frequency of Use:	Often (about 3 times a week on average)		
Flow of Events:		**Actor Action**	**System Response**
	1.	Select file to edit	
	2.	Click on 'edit' button.	Check if the file is a text file, if it is, return the entire contents of file to editor window.
	3.	Edit the file contents in the editor window	
	4.	Click 'save changes'	System saves the file
Variations:			
Exceptions:	If file other than text file is selected, error message is returned to the user.		
Developer Notes:	Text file: .txt extension		

Use Case ID:	UC 16
Use Case Name:	See account usage
Description:	User can see the maximum available account space (determined by his plan with NextBox), the used account space, and free account space.

Actors:	User
Pre-conditions:	User is logged in, has active status

Post-conditions:	User can see maximum available account space (determined by his plan with NextBox), the used account space, and free account space to help him/her plan how to manage it.
Frequency of Use:	About once a week

Flow of Events:		Actor Action	System Response
	1.	Click on 'See Plan Usage' button on the right pane	Navigate to new view, get the used space, the maximum available space and get remaining space from database.
	2.	User can see the maximum available space, the used space and remaining free space on a new view.	

Variations:	
Exceptions:	
Developer Notes:	Display these on the view, using 'GB' or 'MB' units as appropriate. Typically, size could be displayed in MBs unless more than 1GB.

Use Case ID:	UC 21
Use Case Name:	Change activation status
Description:	Admin can activate or deactivate other users and admins, to prevent them from logging in. This does not delete their information from the database. This is a precautionary admin function.

Actors:	Admin
Pre-conditions:	Admin is logged in, has active status
Post-conditions:	Desired user/admin is activated/ deactivated. Deactivated user/admin cannot login unless reactivated by an admin.
Frequency of Use:	Rarely (once in a couple of months)

Flow of Events:		Actor Action	System Response
	1.	Click 'Change user activation status'	Navigate to different view which has field to enter username option to change activation
	2.	Enter username for which status needs to change	
	3.	Select activation status from dropdown	
	4.	Click 'change status' button	Check if username in database. IF present, update the status to selected value. Notify admin that this was successful
	5.	Admin can repeat this for another user or navigate to home	

Variations:	

Exceptions:	If admin enters his own name under user name, he is not allowed to deactivate himself. If the username is not in the database, this is also in error the prompt should display 'invalid operation'
Developer Notes:	

Use Case ID:	UC 15
Use Case Name:	Search for file or directory
Description:	User should be able to search for file or directory by name and see the file and directory names which match on the navigator in search results.

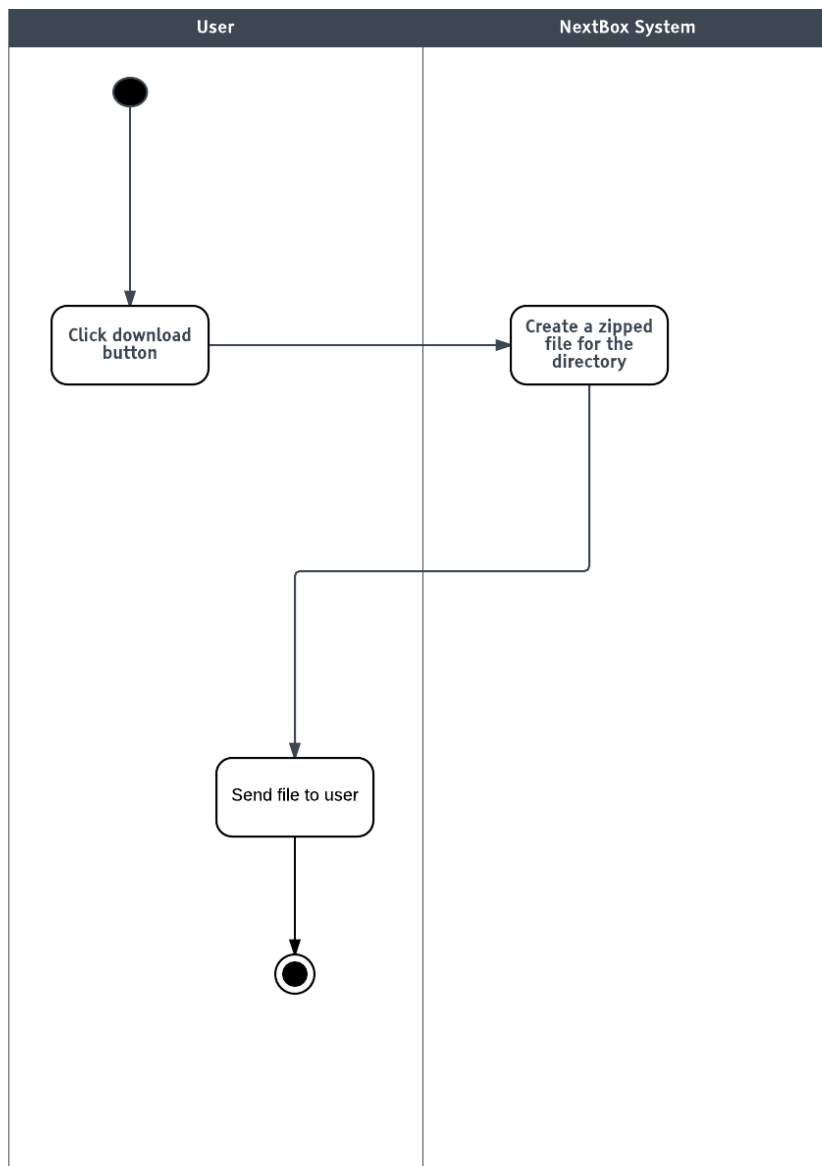|			
Actors:	User		
Pre-conditions:	User is logged in, has active status		
Post-conditions:	Matched file or directory names show up as a list in the search results.		
Frequency of Use:	Frequently/ daily		
Flow of Events:		**Actor Action**	**System Response**
	1.	Navigate to desired directory path	
	2.	Enter name to search in the search text box field.	
	3.	Click on search button.	The systems loads names all the files and directory names within current path and performs a matching algorithm to get list of matches, returns this list to the view
	4.	User can see list of file and directory names which match the entered search string,	
Variations:			
Exceptions:			
Developer Notes:			

Activity Diagrams

Requirement#: UR06

Use Case#: UC12 – Download files

Normal user can download files (zipped directory) with all constituent files and directories
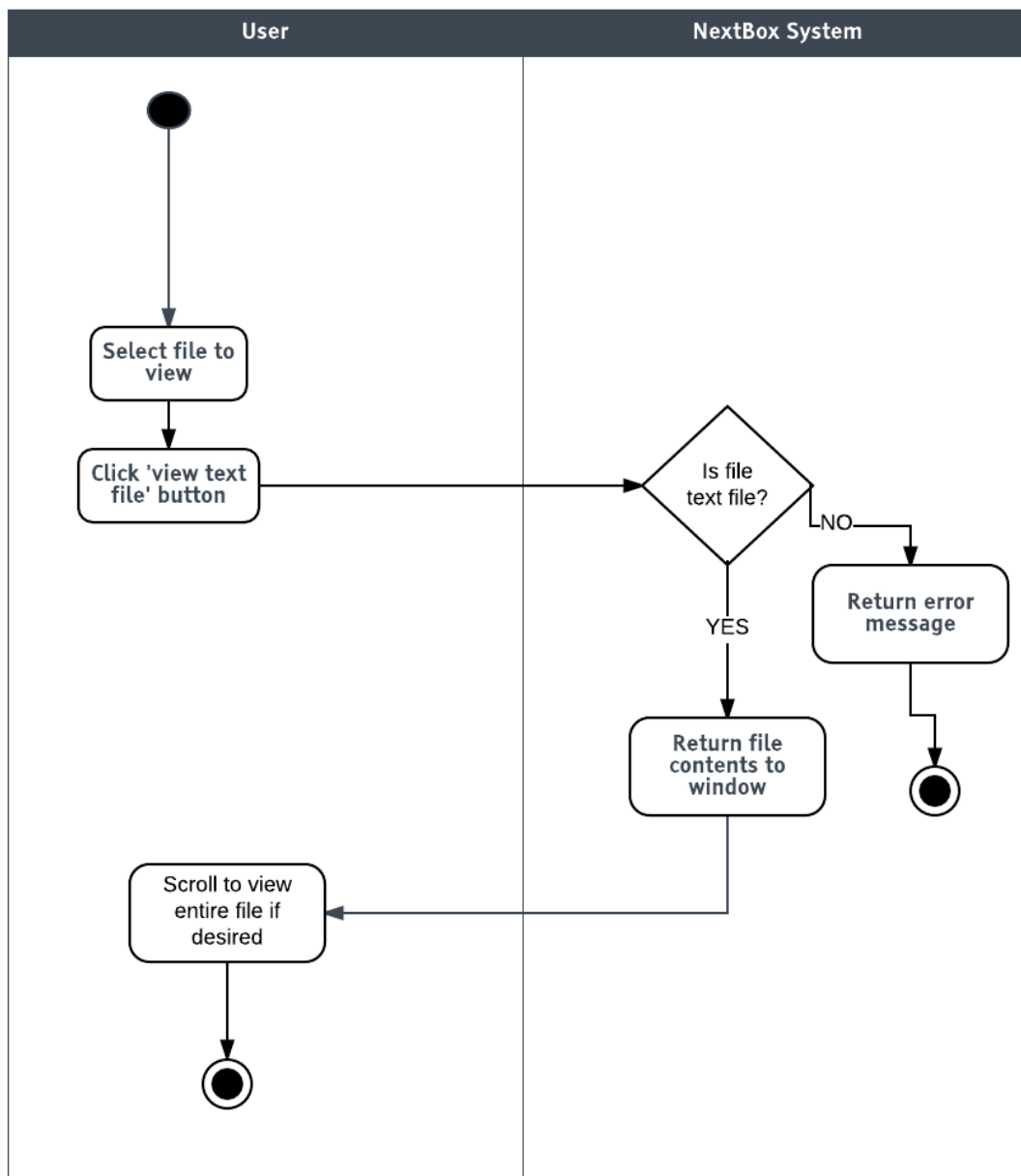
Implementor: Sneha Parmar

User	NextBox System
●	
Click download button	Create a zipped file for the directory
Send file to user	
◉	

Requirement#: UR07

Use Case#: UC13 – View text file

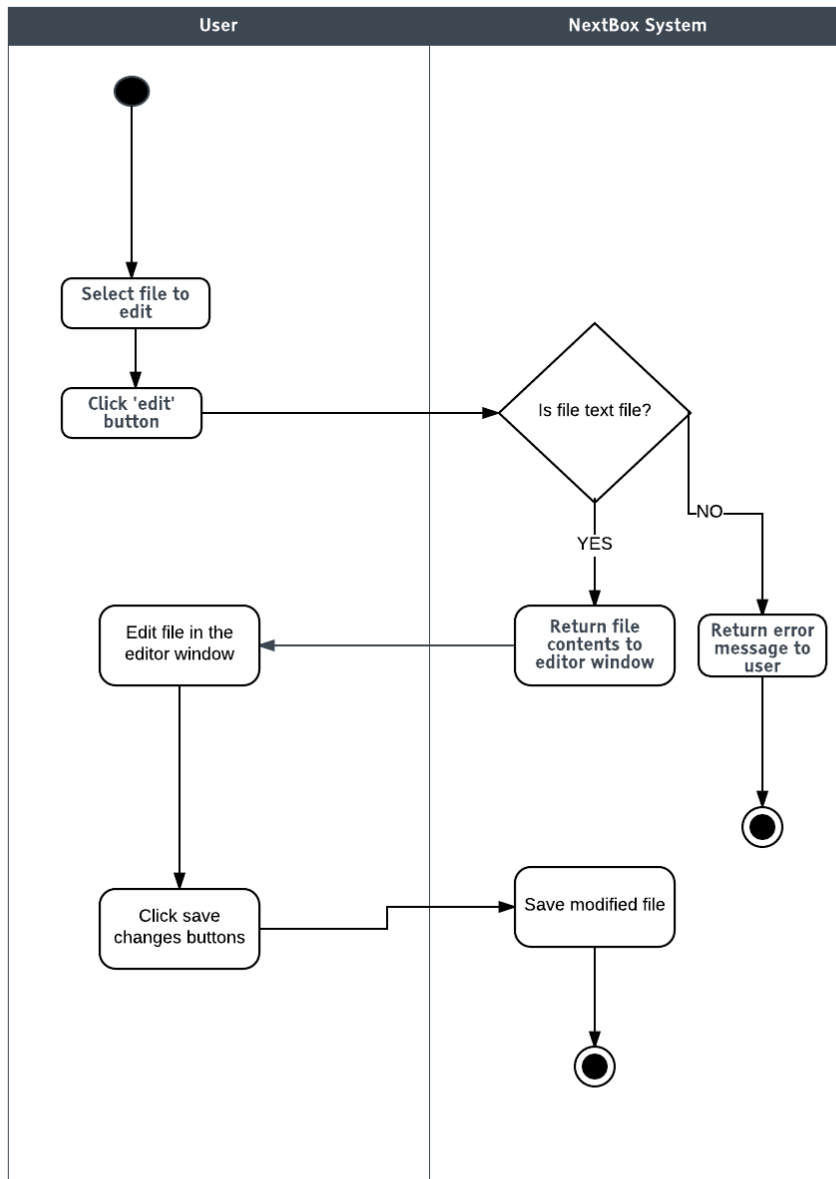User should be able to view text files that have been uploaded previously

Implementor: Sneha Parmar

Requirement#: UR07

Use Case#: UC24– Edit text file

User should be able to edit text files that have been uploaded previously

Implementor: Sneha Parmar

Requirement#: UR10

Use Case#: UC16 – See account usage

User can see the maximum available account space (determined by his plan with NextBox), the used account space, and free account space.

Implementor: Sneha Parmar

Requirement#: UR16

Use Case#: UC21 – Change activation status

Admin can activate or deactivate other users and admins, to prevent them from logging in. This does not delete their information from the database. This is a precautionary admin function.

Implementor: Sneha Parmar

Change activation status of users or admins
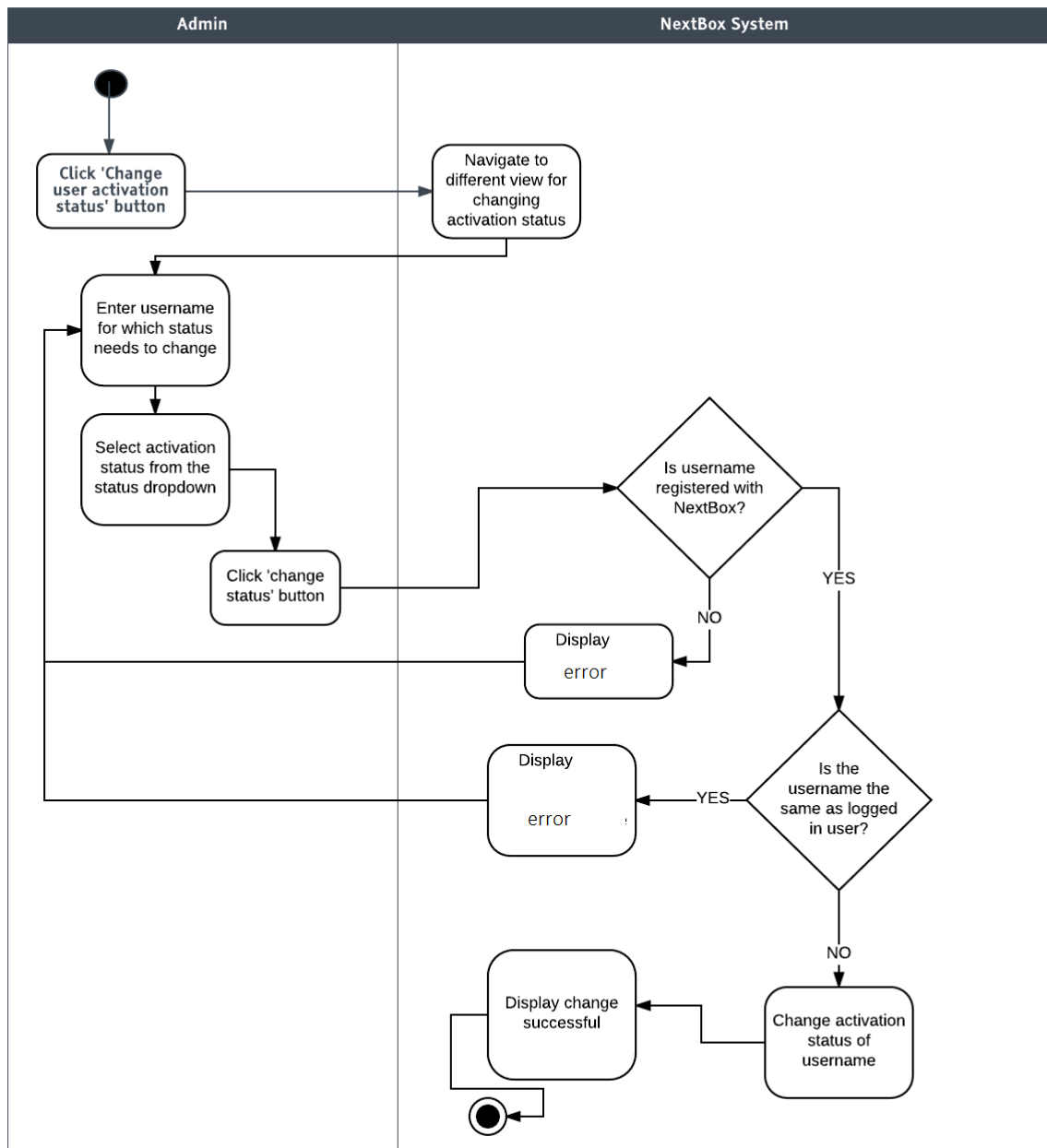
Requirement#: UR09

Use Case#: UC15 – Search for file or directory

User should be able to search for file or directory by name and see the file and directory names which match on the navigator in search results.
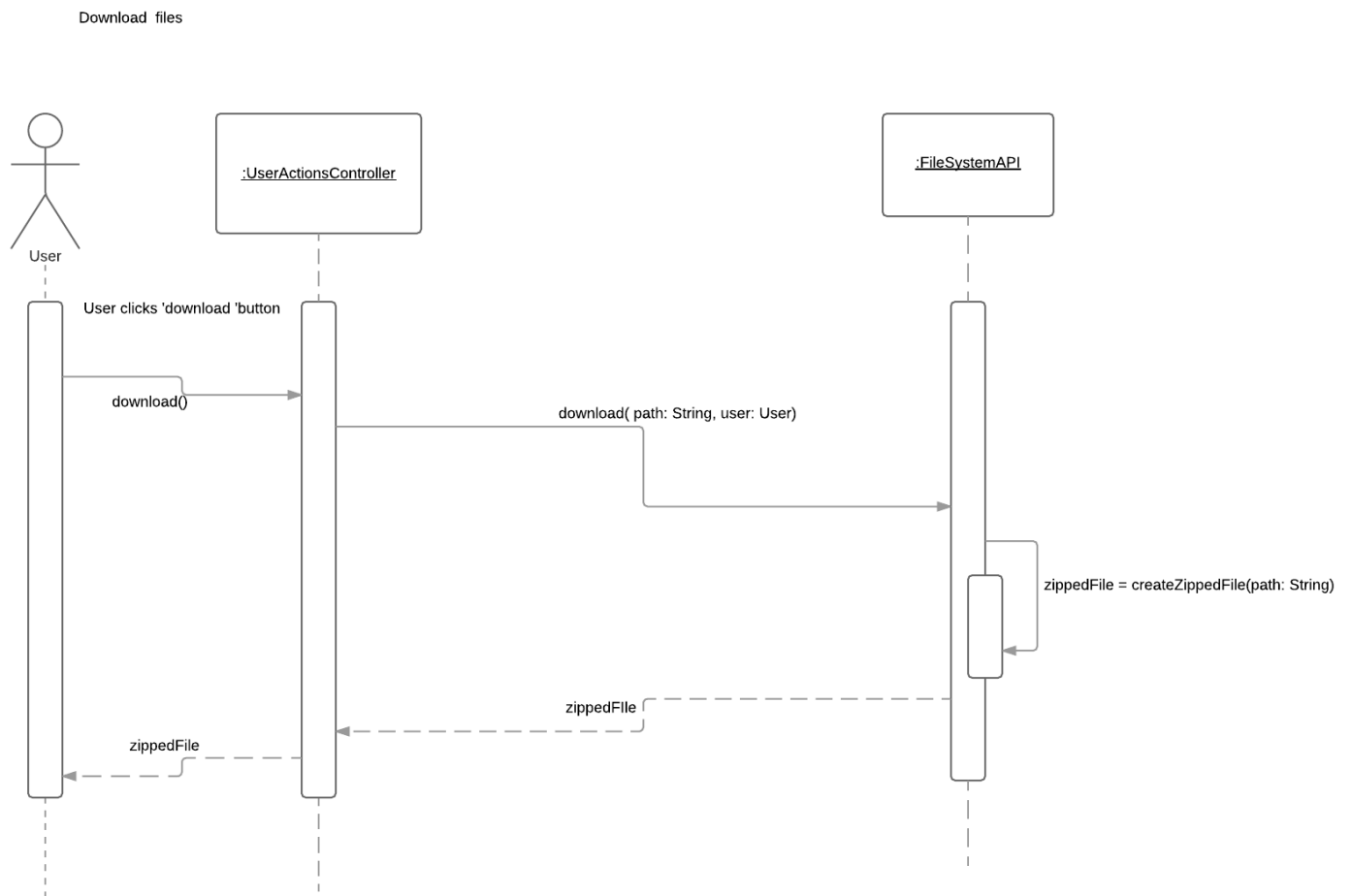
Implementor: Sneha Parmar
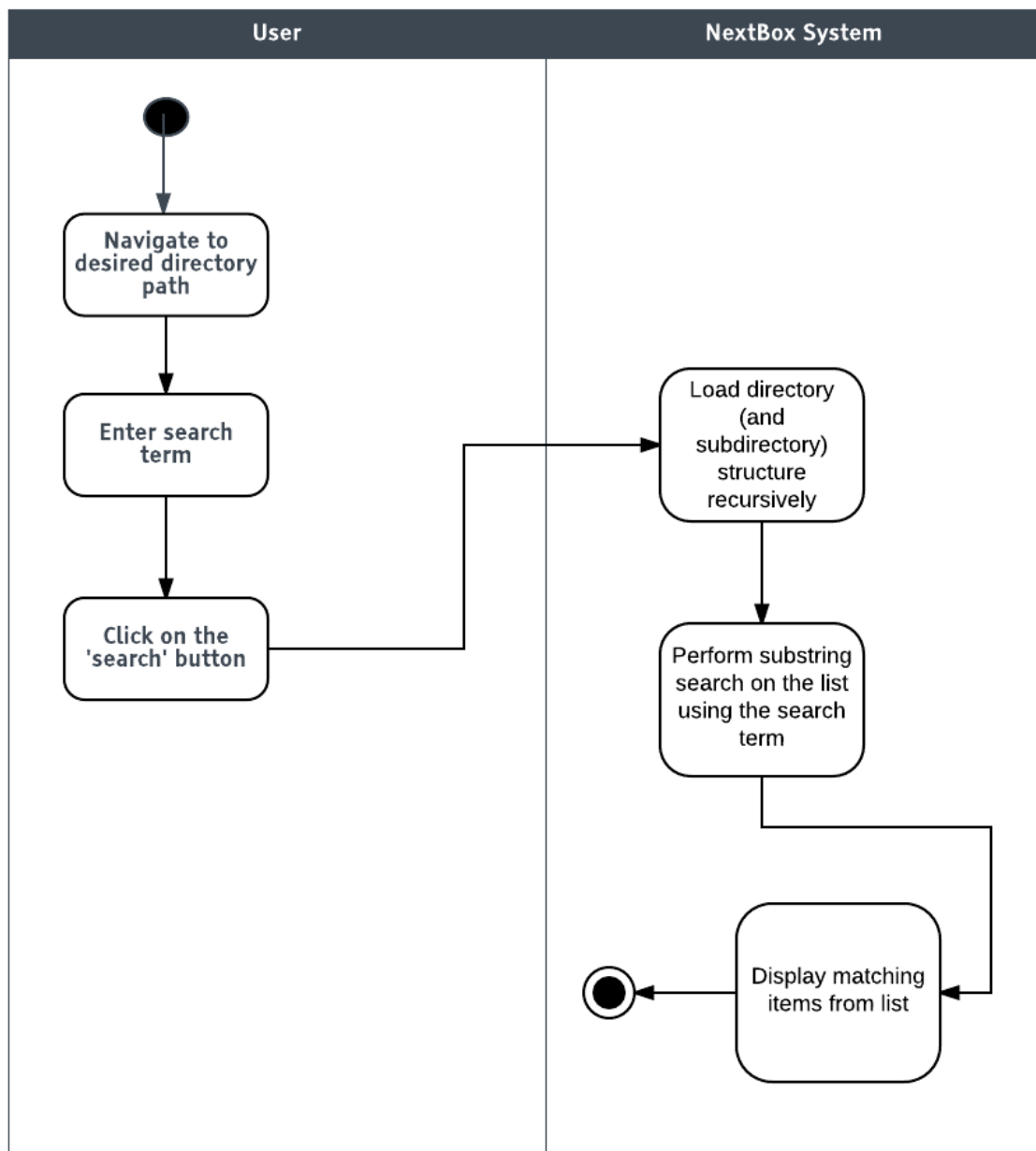
Sequence Diagrams

Requirement#: UR06

Use Case#: UC12 – Download files

Normal user can download files (zipped directory) with all constituent files and directories
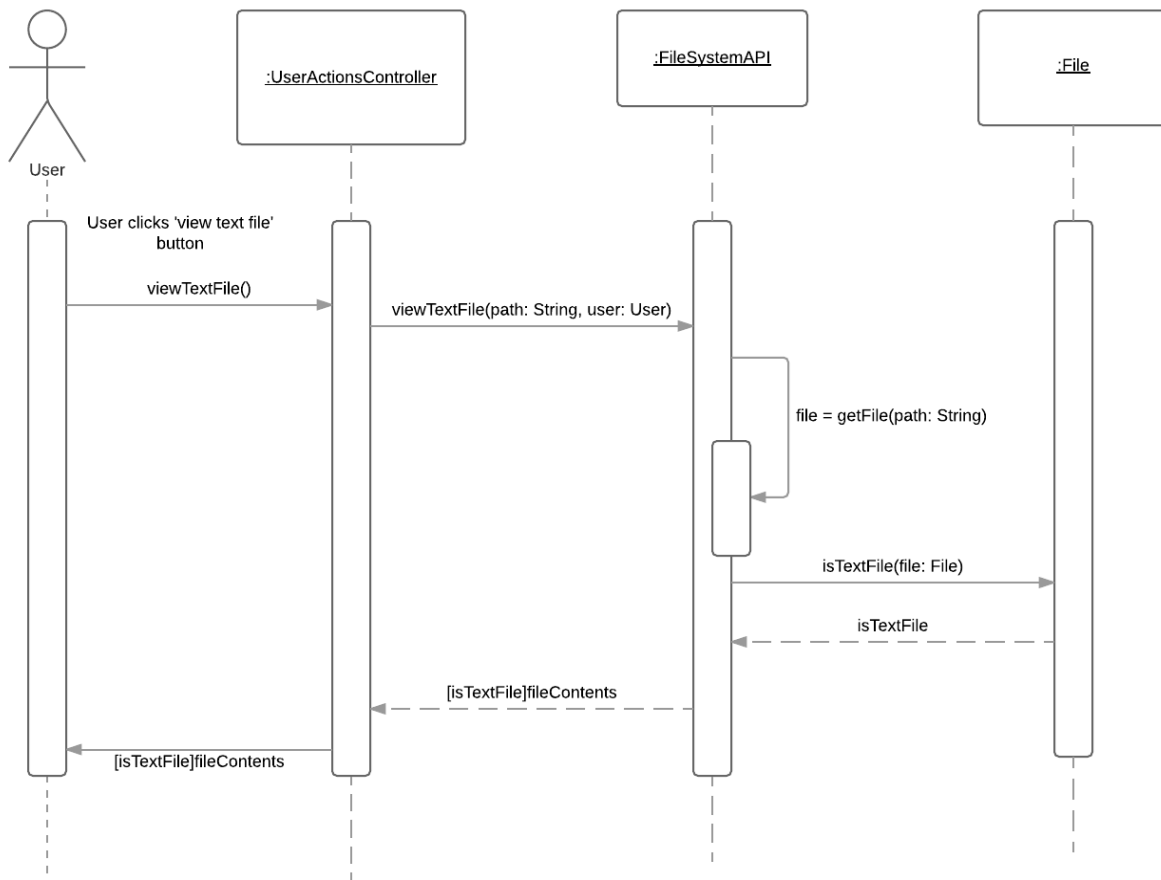
Implementor: Sneha Parmar

Download files

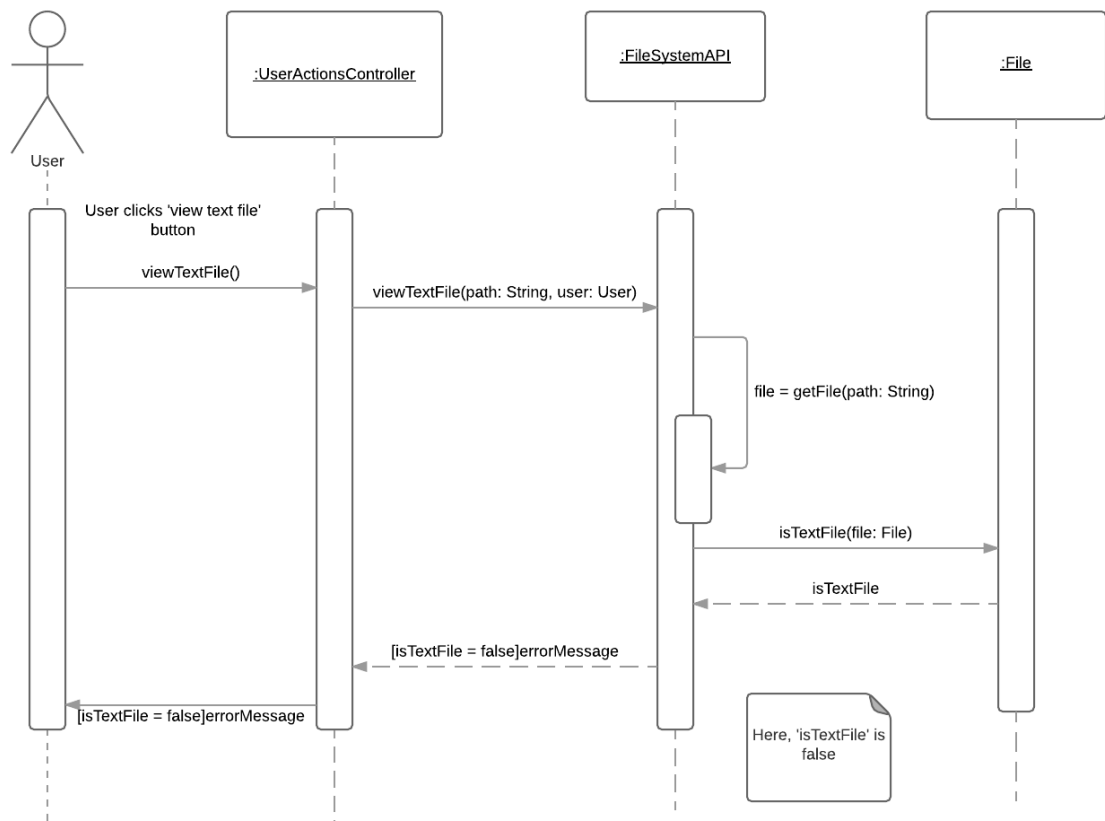**Requirement#:** UR07

Use Case#: UC13 – View text file

User should be able to view text files that have been uploaded previously

Implementor: Sneha Parmar

view text file

view text file (flow when
non-text file is selected)

:UserActionsController

:FileSystemAPI

:File

User

User clicks 'view text file'
button

viewTextFile()

viewTextFile(path: String, user: User)

file = getFile(path: String)

isTextFile(file: File)

isTextFile

[isTextFile = false]errorMessage

[isTextFile = false]errorMessage

Here, 'isTextFile' is
false

Requirement#: UR07
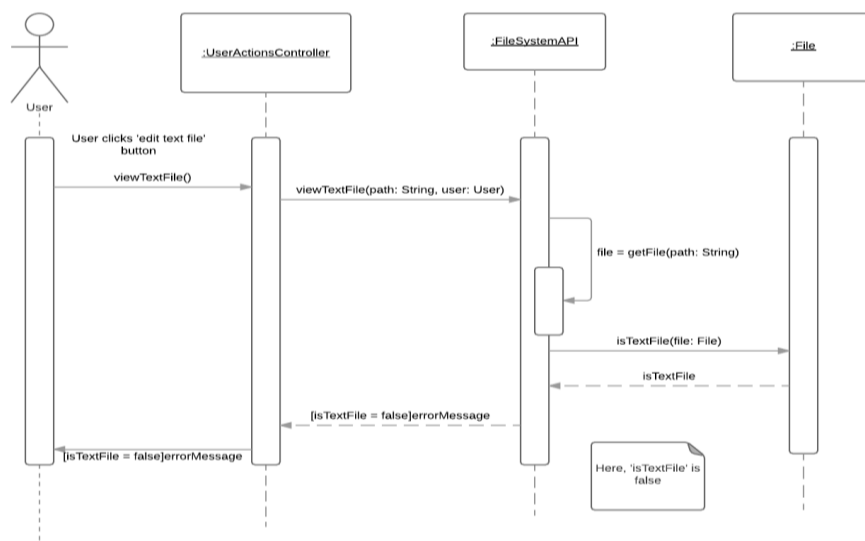
Use Case#: UC24– Edit text file

User should be able to edit text files that have been uploaded previously

Implementor: Sneha Parmar

edit text file
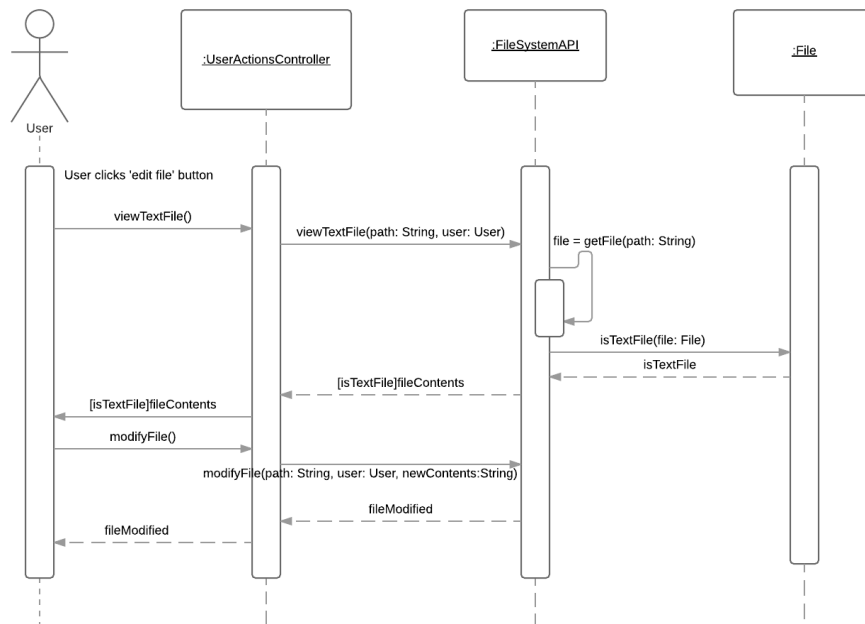
edit text file (flow when
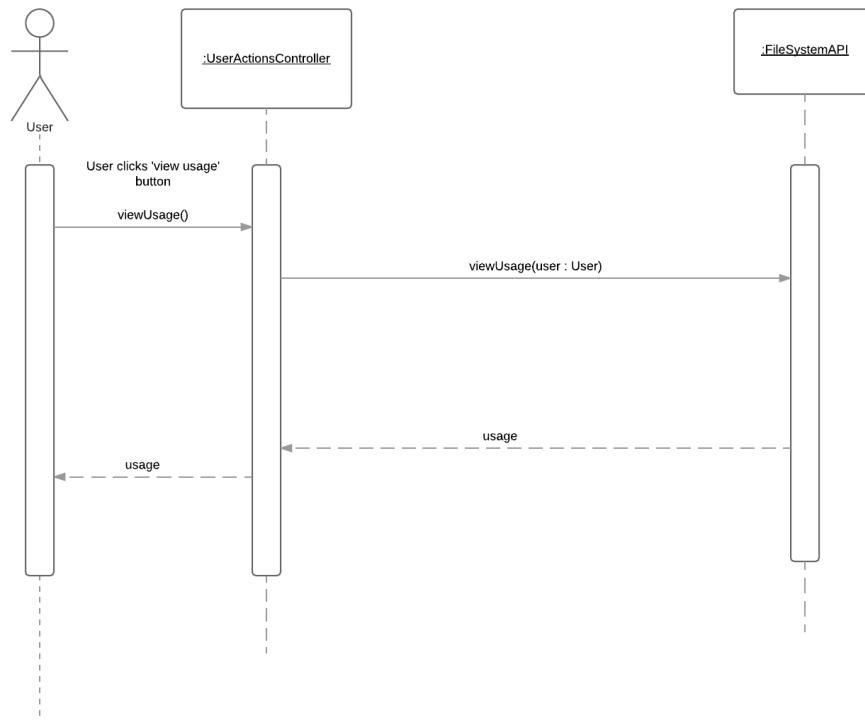non-text file is selected)

Requirement#: UR10

Use Case#: UC16 – See account usage

User can see the maximum available account space (determined by his plan with NextBox), the used account space, and free account space.
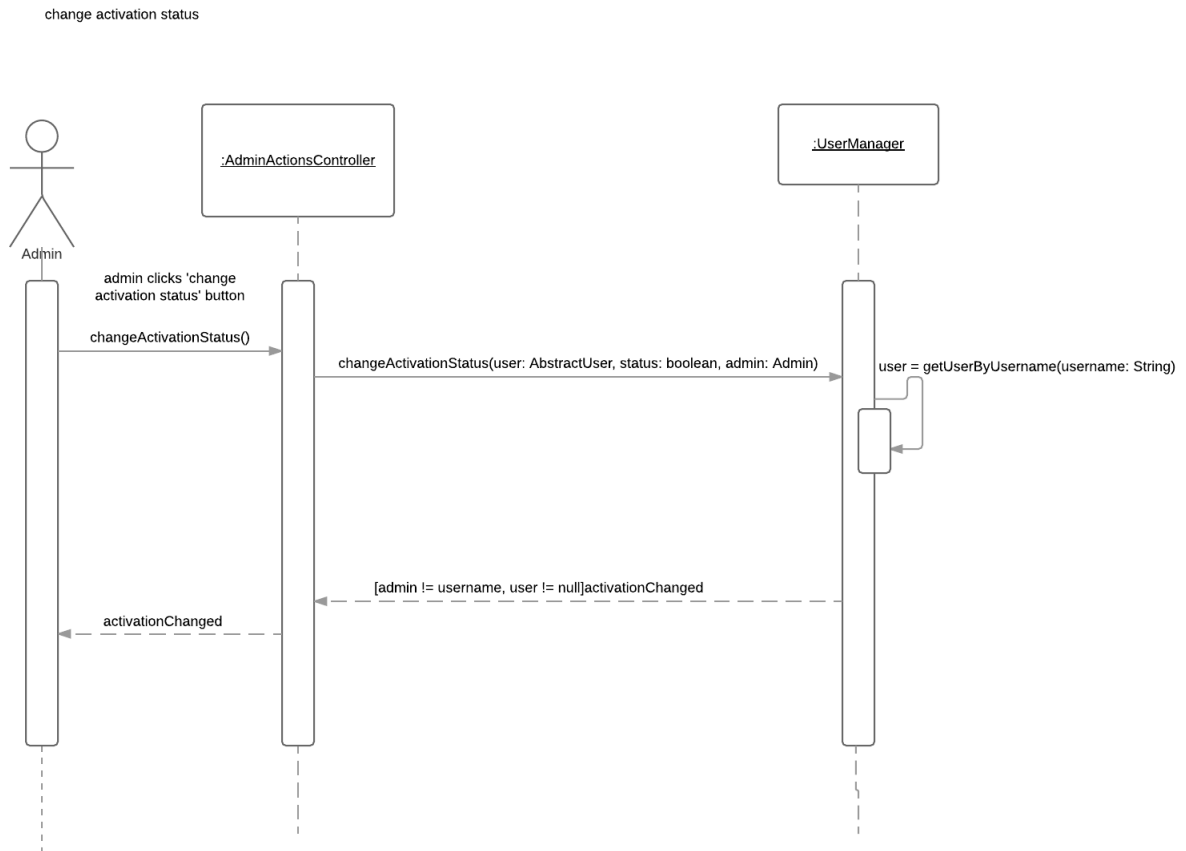
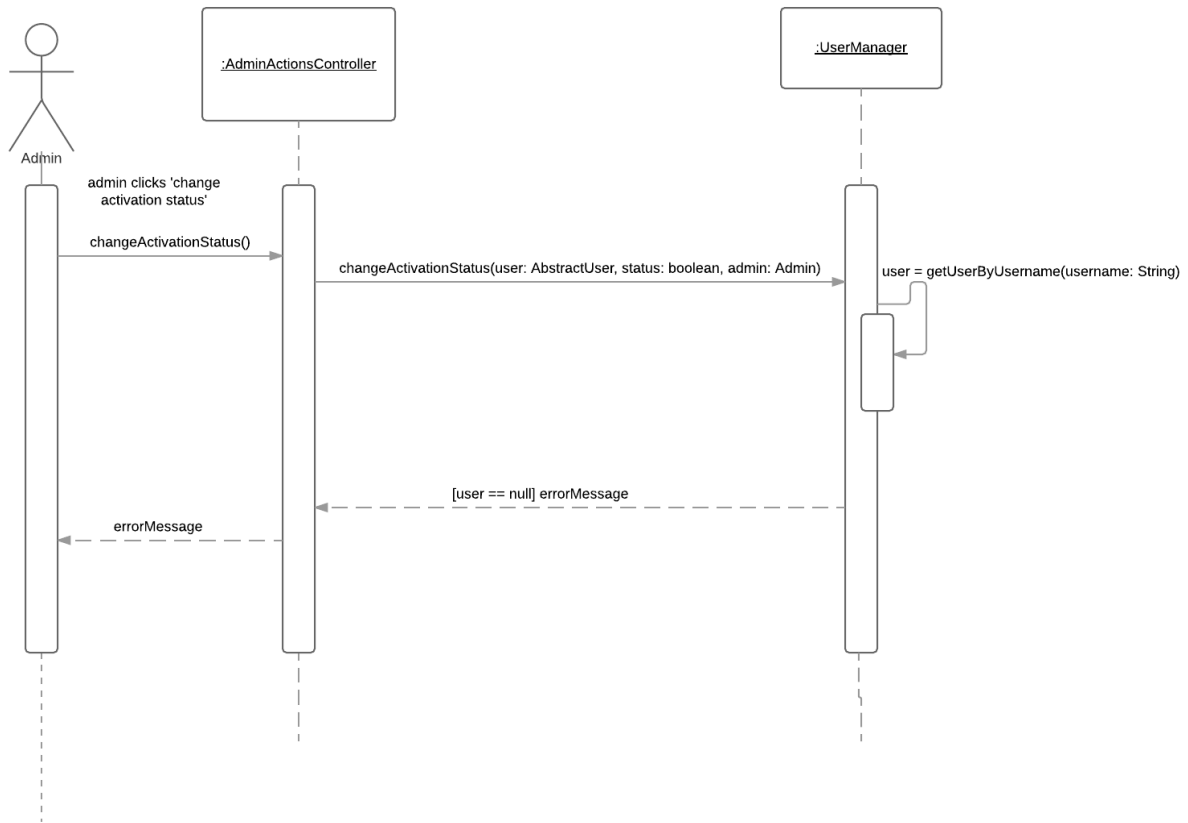**Implementor:** Sneha Parmar

view usage

Requirement#: UR16

Use Case#: UC21 – Change activation status

Admin can activate or deactivate other users and admins, to prevent them from logging in. This does not delete their information from the database. This is a precautionary admin function.
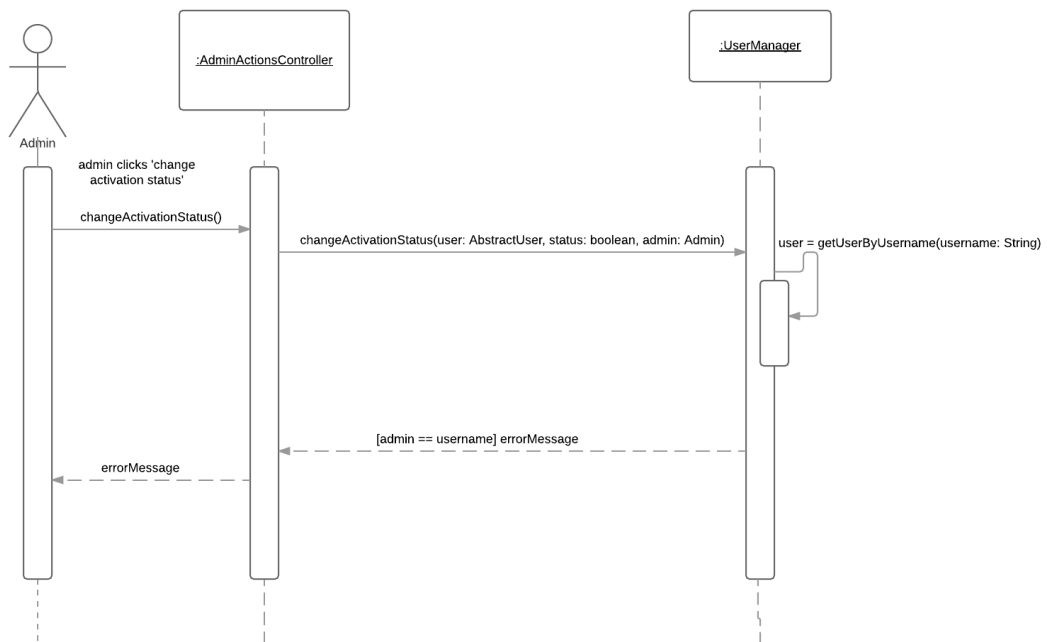
Implementor: Sneha Parmar

change activation status

change activation status

:AdminActionsController

:UserManager

Admin

admin clicks 'change activation status'

changeActivationStatus()

changeActivationStatus(user: AbstractUser, status: boolean, admin: Admin)

user = getUserByUsername(username: String)

[user == null] errorMessage

errorMessage

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change activation status

:AdminActionsController

:UserManager

Admin

admin clicks 'change activation status'

changeActivationStatus()

changeActivationStatus(user: AbstractUser, status: boolean, admin: Admin)

user = getUserByUsername(username: String)

[admin == username] errorMessage

errorMessage

Requirement#: UR09

Use Case#: UC15 – Search for file or directory

User should be able to search for file or directory by name and see the file and directory names which match on the navigator in search results.

Implementor: Sneha Parmar

Search directory / file