<u>IT313 Software engineering</u>

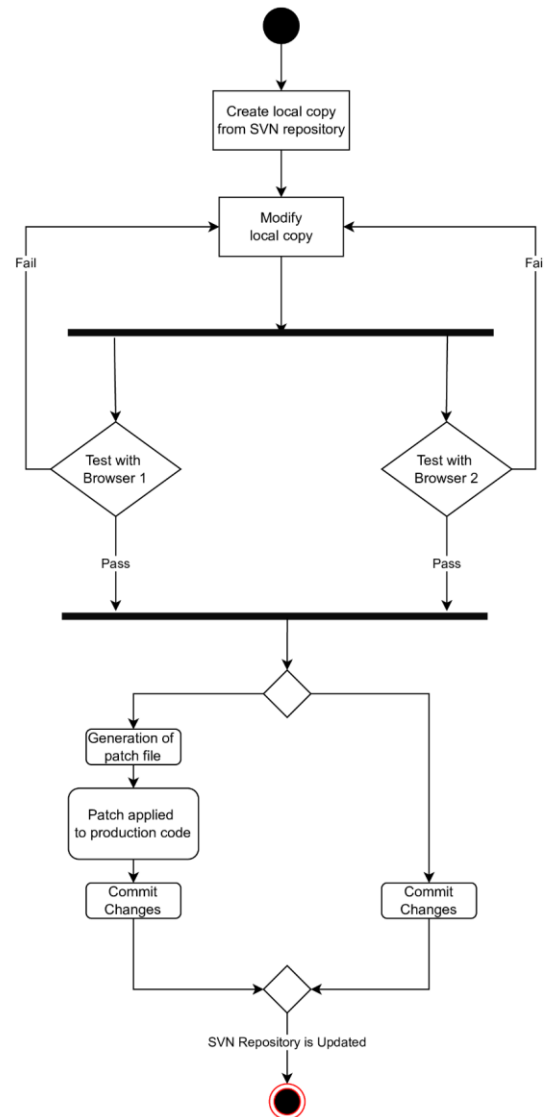**<u>Lab6</u> Activity & Class Diagram**

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Question – 1

- **How would you represent testing of the application with multiple browsers?**
➔ For the purpose of testing the program across many browsers, we must use a fork to make sure that both tasks are completed simultaneously and that output is generated.

- **Can generation Of the patch file and update the Subversion repository be done concurrently?**
➔ No, the patch file will be created first, after which the production code will be patched, and finally the Subversion repository will be updated.

- **Can patching the production code and updating the Subversion repository be done in parallel?**
➔ Applying the Patch to Production Code: This step may be done when the patch has been properly created. Applying the change to the production code completes the process. After the production code has been patched, this phase can only be finished. Committing Changes to SVN Repository. Once the changes are committed, the SVN repository is updated.

- **Activity Diagram**

- **Class Diagram**

Student

ID : int
Name : string

+ Register()

Employee

ID : int
Name : string

+ Register()

Member

ID : int
Name : string
Address : string

+ issue book()
+ reissue book()

1   0 ... *

Book

ID : int
Title : string
Publisher : string
Edition : int
Author : string

+ update status()
+ display book status()

Transaction

ID : int
BookID : int
MemberID : int
IssueDate : int
DueDate : int

+ Create transaction()
+ Delete transaction()
+ Retrive transaction()

0 ... *

1

Librarian

ID : int
Name : string

+ Issue Book()
+ Return Book()
+Verification()
+Add Book()
+Remove Book()