IT-314 Software Engineering

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Lab Report : 6_Activity & Class Diagram

Lab Group: 2

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Think over the following questions:

• How would you represent testing of the application with multiple browsers?

→ To represent the testing of the application with multiple browsers,
We need to use a fork so that both actions get executed and output is generated at the same time.

• Can generation of the patch file and update the Subversion repository be done concurrently?

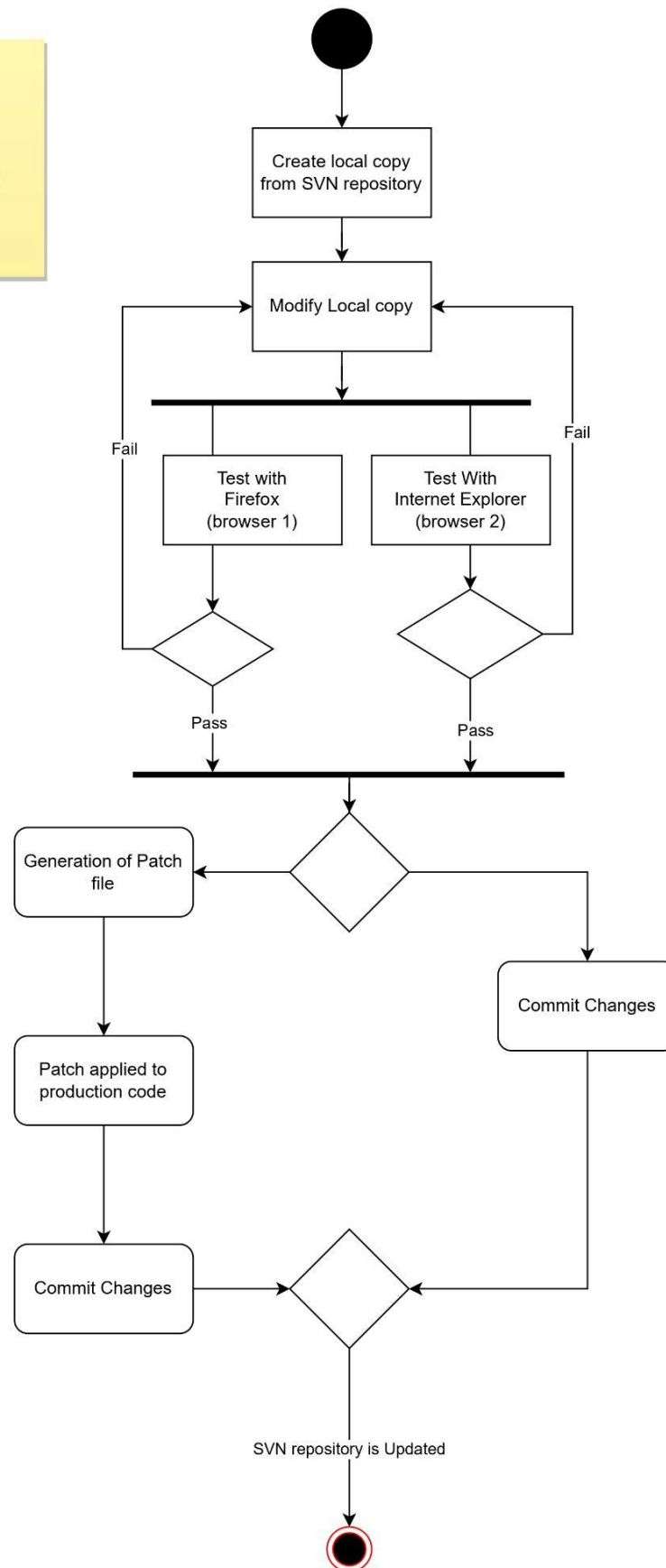→ No, We should generate the patch file before updating the Subversion repository

• Can patching the production code and updating the Subversion repository be done in parallel?

→ Yes, patching the production code and updating the SVN repository can be done in parallel.

Exercise:

1. Draw an activity diagram to graphically represent the following workflow.
2. Draw a class diagram for any one of the sprints by identifying objects, classes and their relationships.
   → Chosen sprint for class diagram: Book issuing functionality

Create local copy
from SVN repository

Modify Local copy

Fail

Fail

Test with
Firefox
(browser 1)

Test With
Internet Explorer
(browser 2)

Pass

Pass

Generation of Patch
file

Commit Changes

Patch applied to
production code

Commit Changes

SVN repository is Updated

Member

Name: string

ID: int

Address: string

+ Issue_Book()

+ Reissue_Book()

Book

ID: int

Title: string

Publisher: string

Edition: int

Author: string

+ Update_Status()

+ Display_Book_Details()

Transaction

ID: int

BookID: int

MemberID: int

IssueDate: string

DueDate: string

+ Create_Transaction()

+ Delete_Transaction()

+ Retreive_Transaction()

1   0.. *

0.. *

Student

Name: string

ID: int

+ Register()

Employee

Name: string

ID: int

+ Register()

Librarian

Name: string

ID: int

+ Issue_Book()

+ Return_Book()

+ Verification()

+ Add_Book()

+ Remove_Book()

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