IT-314 Software Engineering

Ruchika Amin-202101158

Lab Report : 6

Lab Group: 2

Date: 26/08/2023

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?

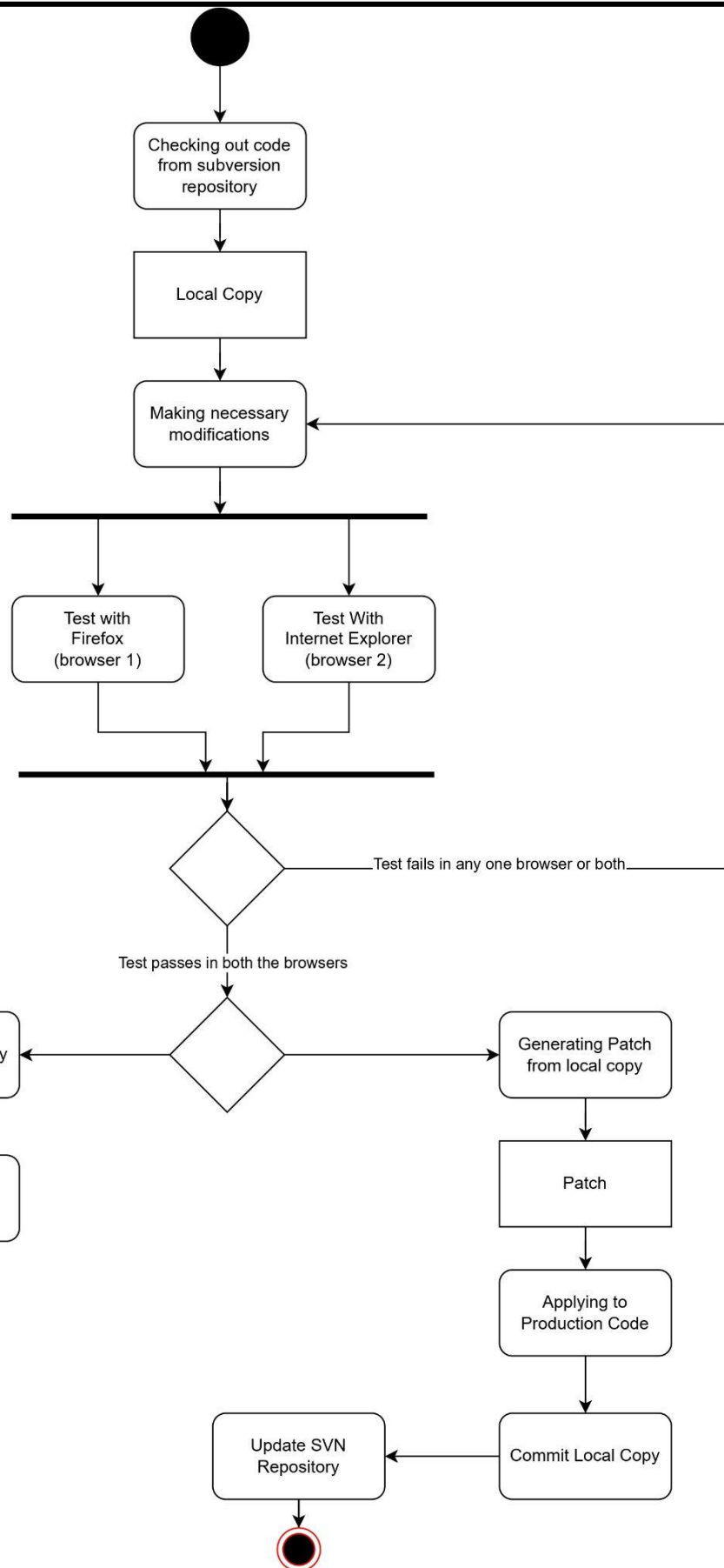→ No, We should generate the patch file before updating the Subversion repository

• 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: New User Registration

Checking out code
from subversion
repository

Local Copy

Making necessary
modifications

Test with
Firefox
(browser 1)

Test With
Internet Explorer
(browser 2)

Test fails in any one browser or both

Test passes in both the browsers

Commit Local Copy

Generating Patch
from local copy

Register Local
Changes

Patch

Applying to
Production Code

Update SVN
Repository

Commit Local Copy

Class Diagram for sprint of New User Registration
Ruchika Amin
202101158

Unregistered User

Registered User

+ MemberID: int

+ Password: type

+ Date of Membership: int

+ No. of Books Issued: int

+ Login()

+ Issue_book()

+ Reissue_book()

+ Return_book()

Librarian

+ Name: string

+ ID: int

+ Verify_Member()

+ Create_Account()

+ Issue_Member()

+ Issue_Book()

+ Return_Book()

+ Add_Book()

+ Remove_Book()

1   Registers   *

User

+ Name: string

+ ID: int

+ Registration_details_filling()

+ Search_for_book()