IT-313: Software Engineering

Lab Report - 06

Name: Aditya Prajapati
ID: 202101133
Group: 2

Activity & Class Diagram

1) To depict application testing with various browsers, we must utilize a fork so that both operations are completed and output is generated at the same time.

2) There will be no first patch file written, followed by the patch being applied to the production code and the Subversion repository being updated.

3) Applying Patch to Production Code: After successfully producing the patch, you can proceed to this stage. The workflow is completed when the patch is applied to the production code. Committing Changes to the SVN Repository: This stage can only be reached after the patch has been applied to the production code. The SVN repository is updated after the modifications are committed.
This stage can also directly be reached by choosing not to create a patch file and directly uploading the code to the SVN repository.

Learning Objectives

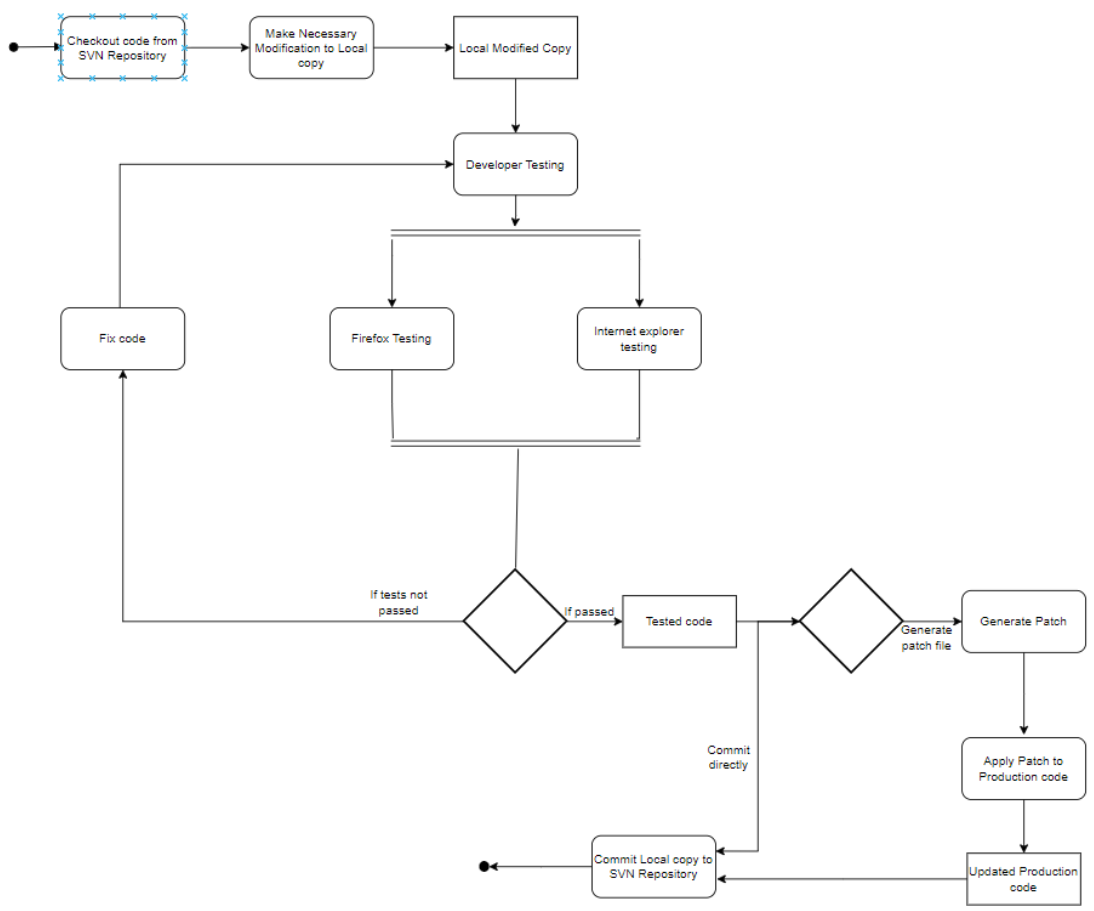1. Identify the fundamental pieces of work and depict the workflow.

First, a clone of the repository is created, then changes are made to the local code, and the process is repeated in Firefox and Internet Explorer concurrently. If all browsers pass the test, the operation will proceed; if not, it will build a patch file, commit the local copy of the code, and then update the SVN repository.

2. Identify activities that can be done concurrently.

The code will be checked in both browsers (Firefox and Internet Explorer) at the same time.

3. Identify stages where progress can be made only if a set of conditions is met.

      1. If at least one of the two browsers (Internet Explorer and Firefox) fails the testing at the checking step, the code must be updated.

      2. If the local copy is committed before attempting to create a patch file, the patch file cannot be created.

Class Diagram (Issue sprint) :-

Librarian

ID: string

Name: String

+IssueBook()
+ReturnBook()
+Verification()
+AddnewBook()
+RemoveBook()

Transaction

TransactionID: string
BookID: string
memberID: string
dateofissue: string
duedate: string

+CreateTransaction()
+Delete Transaction()
+RetriveTransaction()

Library Member

MemberID: string
name: string
address: string

+IssueBook()
+ReIssueBook()

Book

BookID: string
title: sting
publisher: string
edition: string
authorname: string

+displayBookDetails()
+UpdateStatus()

Student

memberID: string
name:string

+Register()

Employees

memberID: string
name:string

+Register()