IT-314 Software Engineering
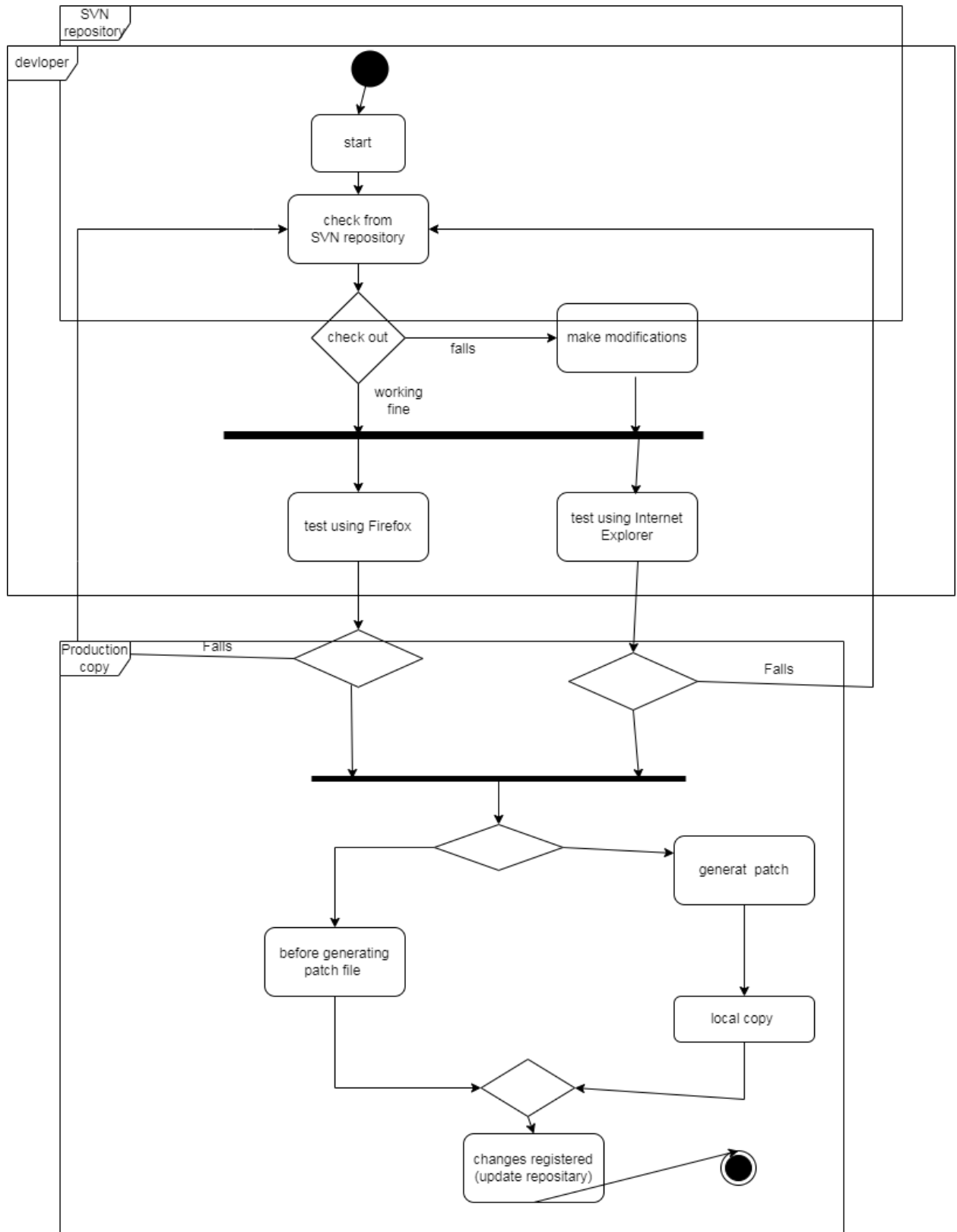
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Lab Group : 4

Lab V: Activity & Class Diagram

Activity diagram

SVN repository

devloper

start

check from
SVN repository

check out — falls → make modifications

working fine

test using Firefox

test using Internet
Explorer

Production copy

Falls

Falls

before generating
patch file

generat patch

local copy

changes registered
(update repositary)

Think over the following questions:

1) **How would you represent testing of the application with multiple browsers?**

   We can use joint to represent testing of the application with multiple browsers.

2) **Can generation of the patch file and update the Subversion repository be done concurrently?**

   Yes, generation of the patch file and update the Subversion repository be done concurrently.

3) **Can patching the production code and updating the Subversion repository be done in parallel?**

   No, patching the production code and updating the Subversion repository cannot be done in parallel.

Learning Objectives :

1) Identify the basic units of work, and visualize the workflow.

First, a copy of the repository is built, changes are made to the local code, and then it is performed concurrently in Firefox and Internet Explorer. If every browser passes the test, the procedure will run if the local copy is committed; if not, it will create a patch file, commit the local copy of the code, and then update the SVN repository.

2) Identify activities that could be done in parallel.

The checking of code in both browsers (Firefox and Internet Explorer) will be done parallelly.

3) Identify stages from where progress could be made only after a list of

criteria is satisfied.

1. The code must be changed if at least one of the two browsers (Internet Explorer and Firefox) fails the testing at the checking step.

2. If the local copy is committed before creating a patch file, in which case the patch file cannot be created.

Class Diagram(issue Sprint):

Librarion

ID string
Name : string

Issue book()
Return book()
verification()
Addnewbook()
RemoveBook()

Trnsaction

TransactioID: string
bookID:string
memberID:string
dateofissue:string
duedate:v string

create transcript()
Deletetranscript()
Retrive Transcript()

Library member

memberID: string
name: string
address : string

issueBook()
ReIsseBook()

Book

BookID
title : string
publisher :string
edition : number
authername : string

displayBookDetiales()
updatestatus()

Student

memberID: string
name :string

register()

Employess

memberID: string
name: string

register()

1

0..*

0..*

1

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1