IT314-Software Engineering (2022-2023)
Lab VI: Activity & Class Diagram

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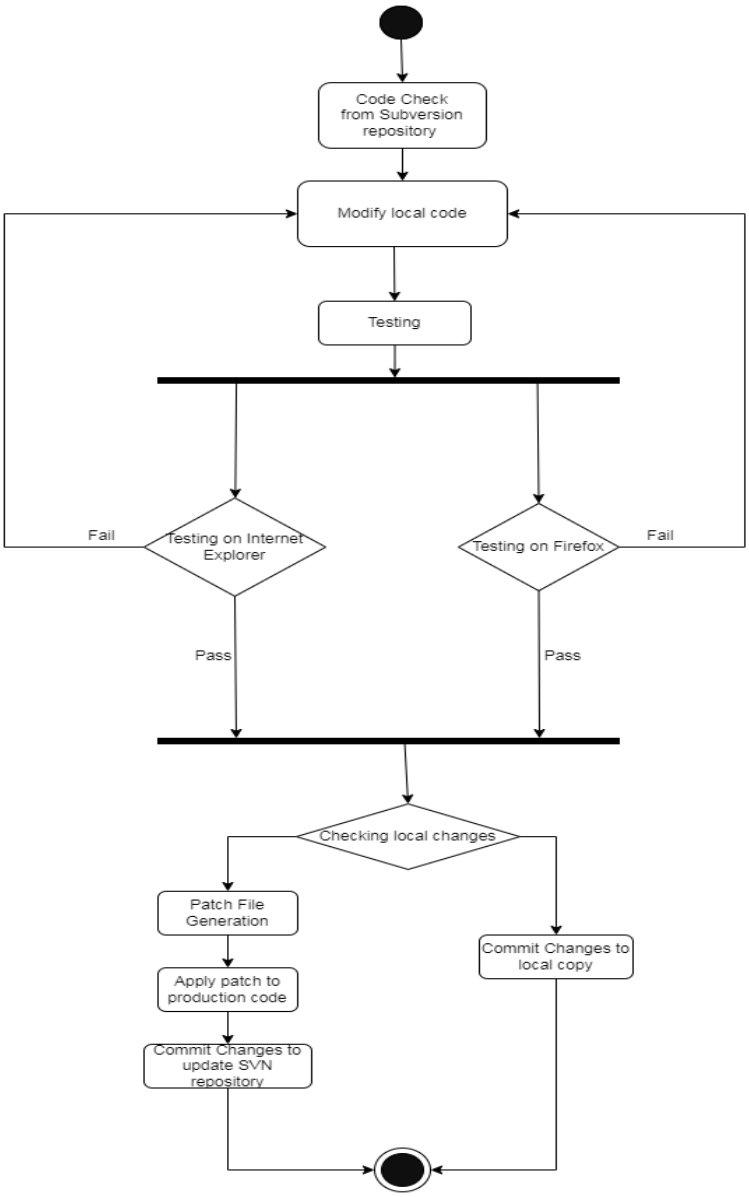
Activity Diagram



Think over the following questions:

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

Ans – We can represent testing of the application with multiple browser using fork

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

Ans – No first patch file will be created, followed by its application to the production code and updating of the Subversion repository.

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

Ans - Applying Patch to Production Code stage is possible after successfully generating the patch. Applying the patch to the production code completes the workflow.

Committing Changes to SVN Repository can only be made after the patch is applied to the production code. Committing the changes updates the SVN repository.

Learning Objectives:

• Identify the basic units of work, and visualize the work flow

Ans - First, a copy of the repository is built, changes are made to the local code, and then it is tested concurrently in Firefox and Internet Explorer. If both browsers pass the test, the procedure will end if the local copy is committed; if not, it will create a patch file, commit the local copy of the code, and then commit changes to update the SVN repository and if any one the browser does not pass the test then it will be go back again to modify the code and test again

• Identify activities that could be done in parallel

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

• Identify stages from where progress could be made only after a list of criteria is satisfied

Ans -The code must be changed if at least one of the two browsers (Internet Explorer and Firefox) fails the testing

➔ If the local copy is committed before creating a patch file, in which case the patch file will not be created

Class Diagram