IT314 – Software Engineering

Lab 6 : Activity and Class Diagram

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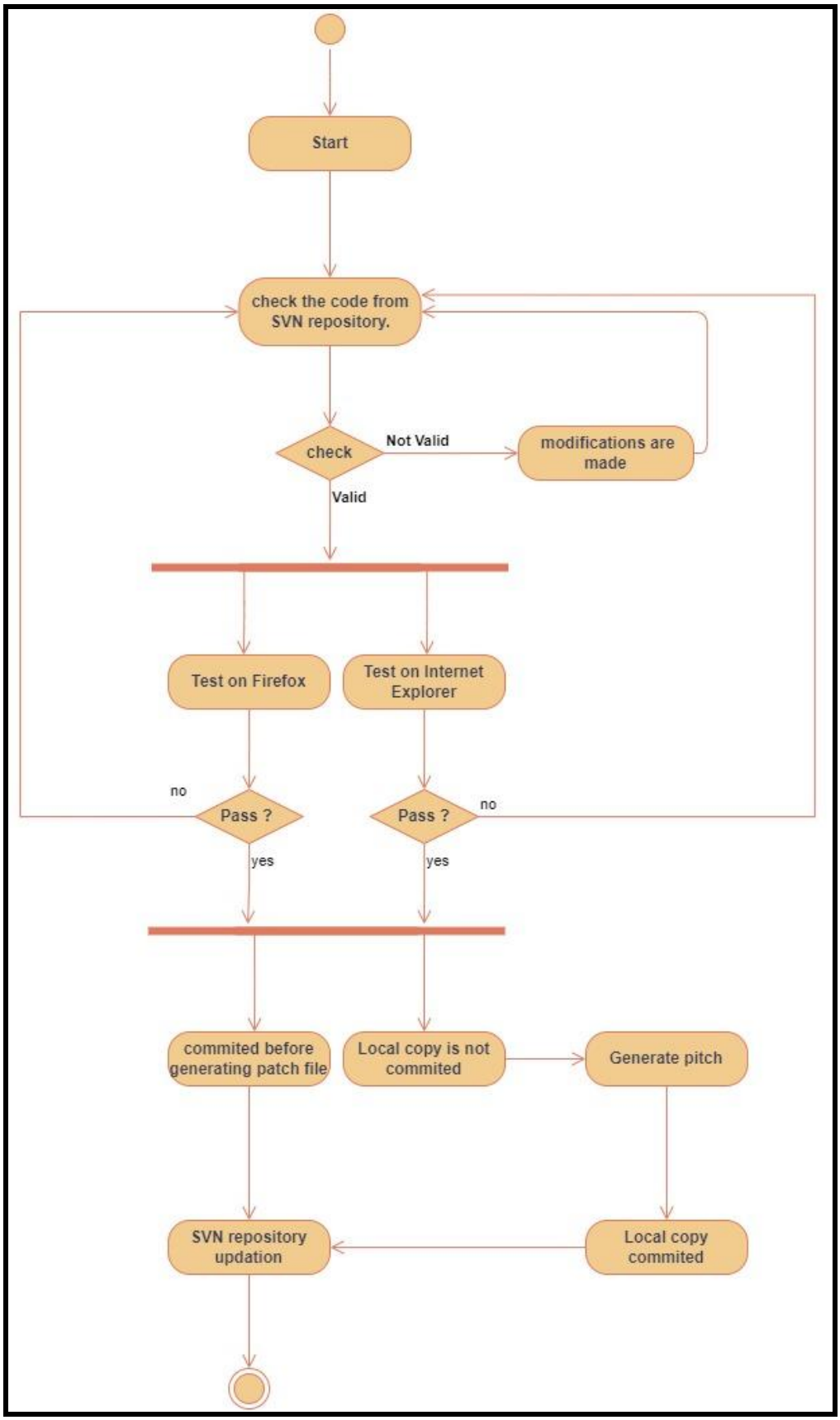
Activity Diagram :


Start
check the code from SVN repository.
check
Not Valid
modifications are made
Valid
Test on Firefox
Test on Internet Explorer
no
Pass ?
Pass ?
no
yes
yes
commited before generating patch file
Local copy is not commited
Generate pitch
SVN repository updation
Local copy commited

Questions :

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

→ To represent testing of the application with multi browsers I use fork so that both the testing happens concurrently and the output will be generated.

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

→ No, after passing test from the both browsers, first a patch is generated from the local copy and then the local copy is committed, resulting in an update of the SVN repository.

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

→ Patching the production code : This process is possible after generating the patch then applying patch to the production code completes the flow.
Updating the Subversion repository : Only after the above process, committing the changes, updates the SVN repository.

Learning Objectives:

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

→ First copy of the repository is created. Then check the code from the SVN repository and do modifications if required. Then test it on both firefox and internet explorer. If it passes both tests then 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 test of the code on both browsers firefox and internet explorer will be done in parallel.

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

→ 1. If code has to pass the test on both the browsers then only local copy is committed and update on the SVN repository can be done.

2. To generate the patch file, local copy is not committed before creating the patch file.

Class diagram :