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## **IT314 Software Engineering**



### **Lab Report: 6 Domain Modeling**

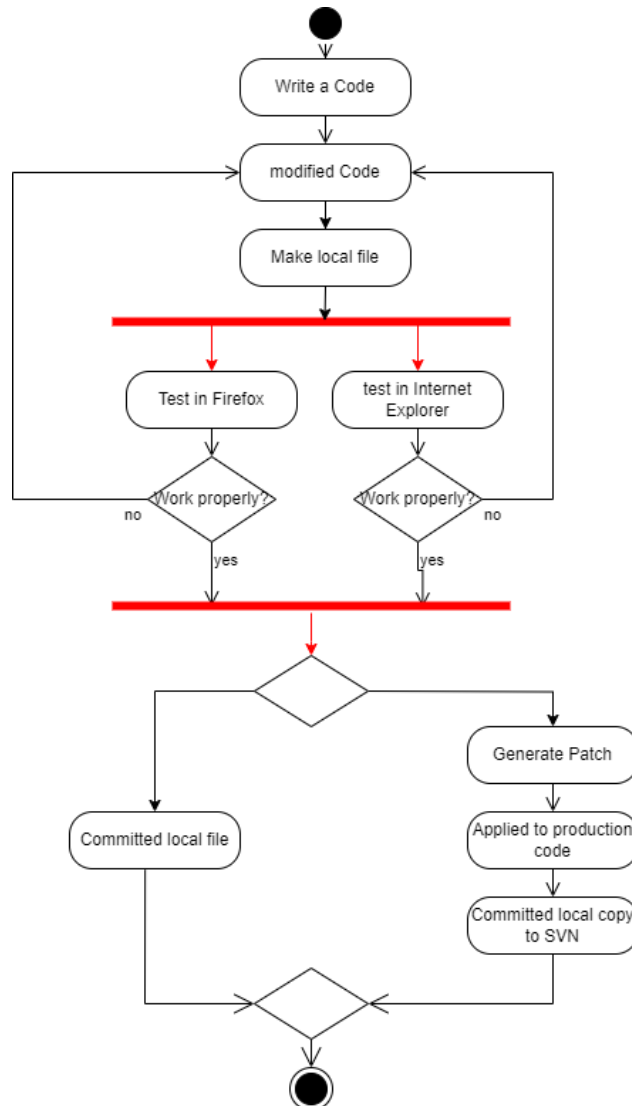
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## Exercise:

Q. Draw an activity diagram to graphically represent the following workflow  
Activity Diagram:-



## Think over the following questions:

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

Here I use fork and join for represent testing of the application with multiple browsers

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

No, generation of the patch file and update the Subversion repository not done concurrently. First patch file will be generated then it's applied on production code and then Subversion repository will be updated.

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

No, Firstly patching the production code will be done then updating the Subversion repository.

## Learning Objectives:

Q. Identify the basic units of work, and visualize the workflow.

The process involves creating a clone of the repository, making adjustments to the local code, and then running Firefox and Internet Explorer simultaneously. The procedure will execute if the local copy of the code is committed and every browser passes the test; otherwise, it will produce a patch file, not commit the local copy of the code, and then update the SVN repository.

Q. Identify activities that could be done in parallel.

Testing code on Firefox and Internet Explorer will be done in parallel.

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

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

If a patch file is not able to be created because the local copy has already been committed.

## Class Diagram:

