IT-313

Software Engineering

LAB - 6

Activity & Class Diagram

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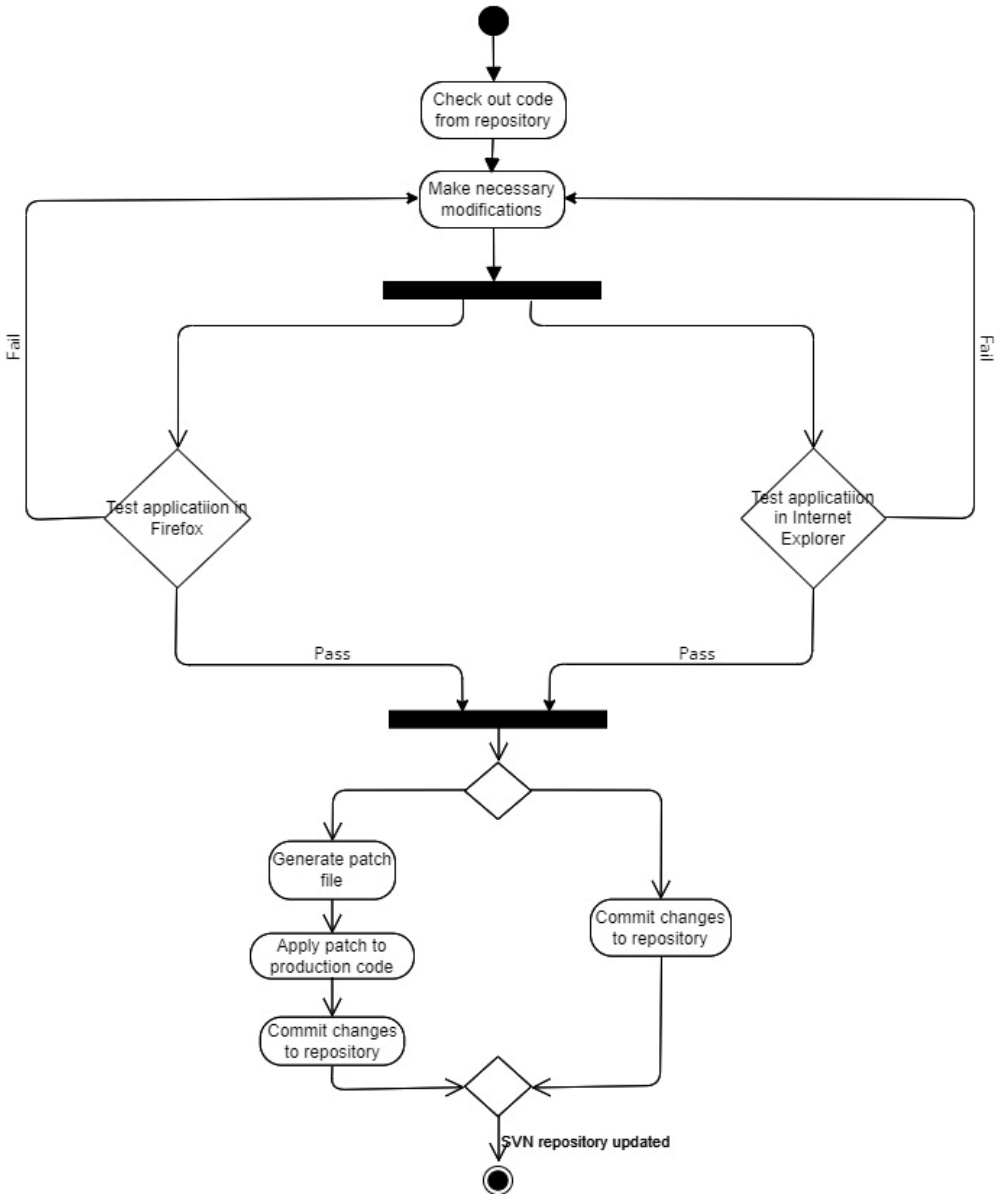
Exercise – 1 : Activity Diagram



Think over the following questions:

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

   → To demonstrate cross-browser testing of the application, we need to use a fork so that both actions are executed and output is generated simultaneously.

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

   → No, the patch file is created first, which is then applied to the production code and the Subversion repository is then updated.

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

   → No.

   Apply patch to production code:

   → This stage can be advanced after successfully creating the patch. Applying patch to production code completes the workflow.

   Commit changes to the SVN repository:

   → This stage can only be advanced after applying the patch to production code. Committing changes updates the SVN repository.

Learning Objectives:

1. Identify the basic units of work, and visualize the work flow.

   → Initially, a copy of the repository is created, and then modifications are made to the code, then it is executed in the browsers Firefox and Internet Explorer. If each browser passes the test, the process runs if the local copy is committed; otherwise it will create a patch file, commit the local copy of the code, then update the SVN repository.

2. Identify activities that could be done in parallel.

   → Code verification on both browsers (Firefox and Internet Explorer) will be performed in parallel.

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

→ 1) The code must be modified if one of the two browsers fails the verification step.

2) If the local copy is committed before the patch file is created, the patch file cannot be created.

Exercise – 2 :