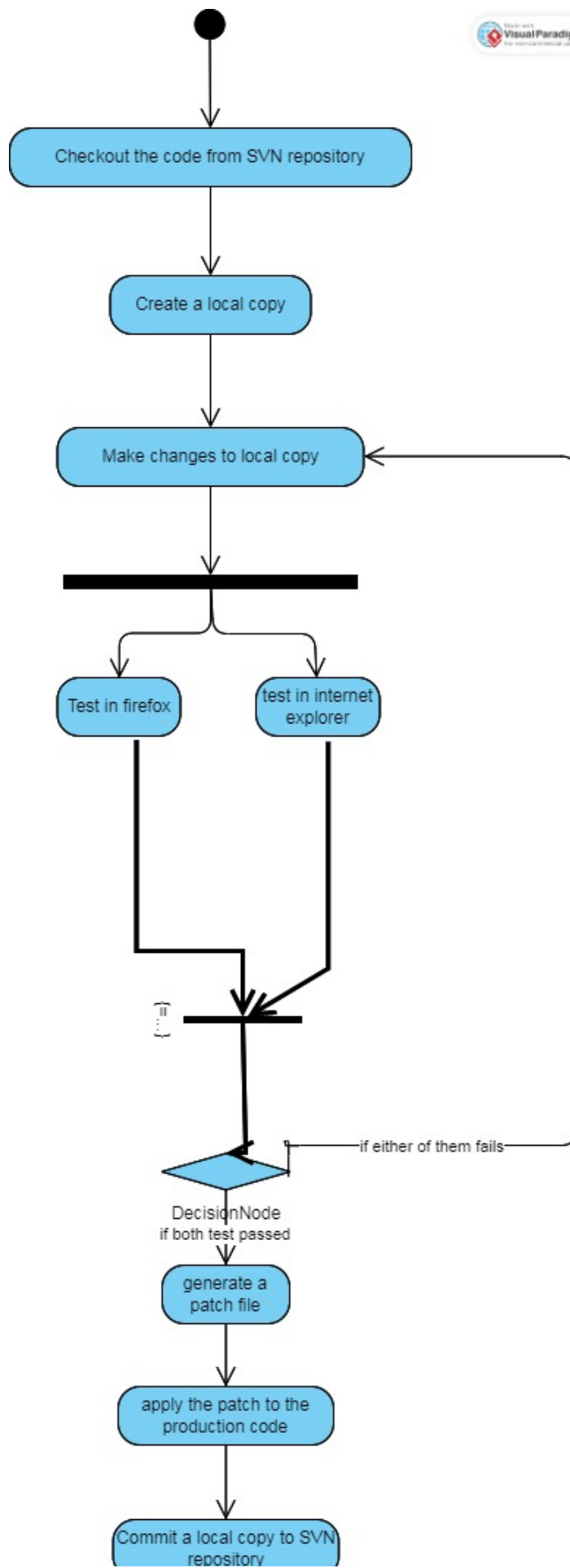


Software Engineering

Lab 6

2021265 Siddhant Patel Group 4

Q.1 Activity diagram



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

The testing of the application with multiple browsers is represented in the process as follows: After making changes to the local copy of the code, the developer tests the application with two popular web browsers, Firefox and Internet Explorer. The goal is to verify that the new functionality works correctly in both browsers, ensuring cross-browser accessibility. If the testing fails in at least one of these browsers, the developer goes back to their code to make fixes until it works properly in both browsers. This ensures that the application is tested comprehensively across different web browsers.

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

No, the generation of the patch file and updating the Subversion (SVN) repository cannot be done concurrently in the described process. The process specifically mentions that the patch file should be generated from the local copy of the code, and only after the patch is generated and applied to the production code, the local copy should be committed to the SVN repository. This sequence ensures that only the intended changes are recorded in the SVN repository and that the code is in a stable state before being updated in the repository.

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

In the described process, patching the production code and updating the SVN repository are not done in parallel. The sequence is important to maintain code integrity and version control. First, the patch is generated and applied to the production code to ensure that the changes are properly integrated and tested in the production environment. Once this is successfully completed, the local copy is committed to the SVN repository to reflect the same changes there. This step-by-step approach ensures that changes are properly validated before being applied to the repository.

- Identify activities that could be done in parallel
Testing in Firefox and Internet Explorer can be done in parallel.
- Identify stages from where progress could be made only after a list of criteria is satisfied
Checking Test Results is a stage where progress depends on specific criteria. If both the Firefox and Internet Explorer tests pass, you proceed to the next step. If either of them fails, you must go back to "Making Changes to the Local Copy" to

fix the issues. Progress to the next steps is only possible when the criteria of passing tests are satisfied.

Q.2: class diagram

