

Lab5

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Exercise: Draw an activity diagram to graphically represent the following workflow. Let us consider the development activities of SE Virtual Labs. The process begins by checking out the code from Subversion repository. Necessary modifications are then made to the checked out code (local copy). Once the developer is done with his changes, the application has to be tested to verify whether the new functionality are working fine. This test has to be performed with two of the more popular web browsers: Firefox and Internet Explorer, to support cross-browser accessibility. If testing fails in at least one of the two browser, developer goes back to his code, and fixes it. Only when all the browsers pass the test, a patch is generated from the local copy, and applied to the production code. The local copy is then committed resulting in update of the SVN repository. Note that, if the local copy is committed before generating a patch file, then local changes would get registered, and one won't be further able to generate the patch file.

Note: For further clarification, at any point of time there exists three versions of the source code: Production copy, local copy, and copy in SVN repository

Think over the following questions:

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

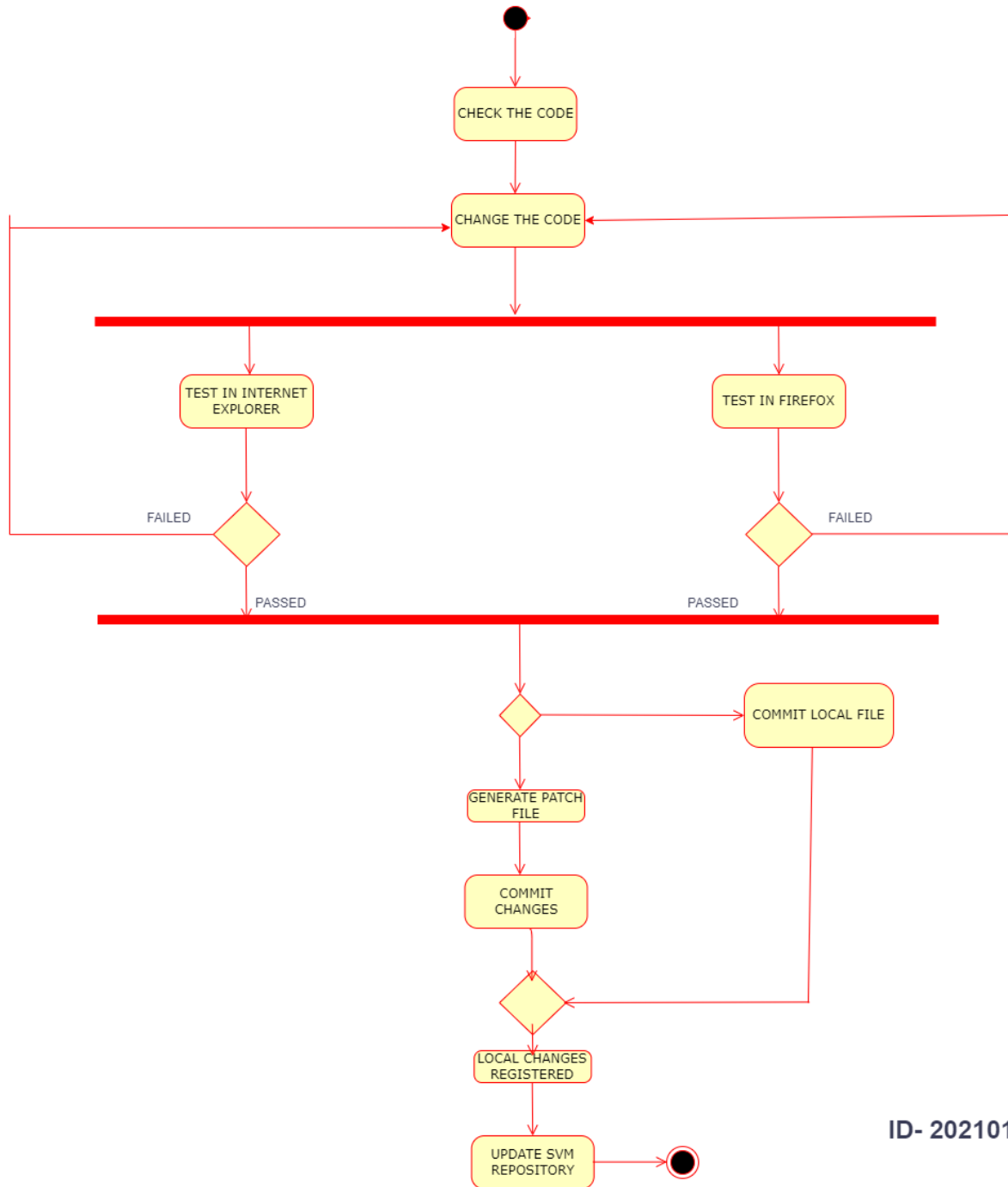
Testing of the application is represented by the "Test in Firefox" and "Test in Internet Explorer" activities, which are performed in parallel using fork and join.

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

Generation of the patch file and updating the Subversion repository cannot be done concurrently. The patch file must be generated before applying it to the production code, and updating the repository happens after applying the patch.

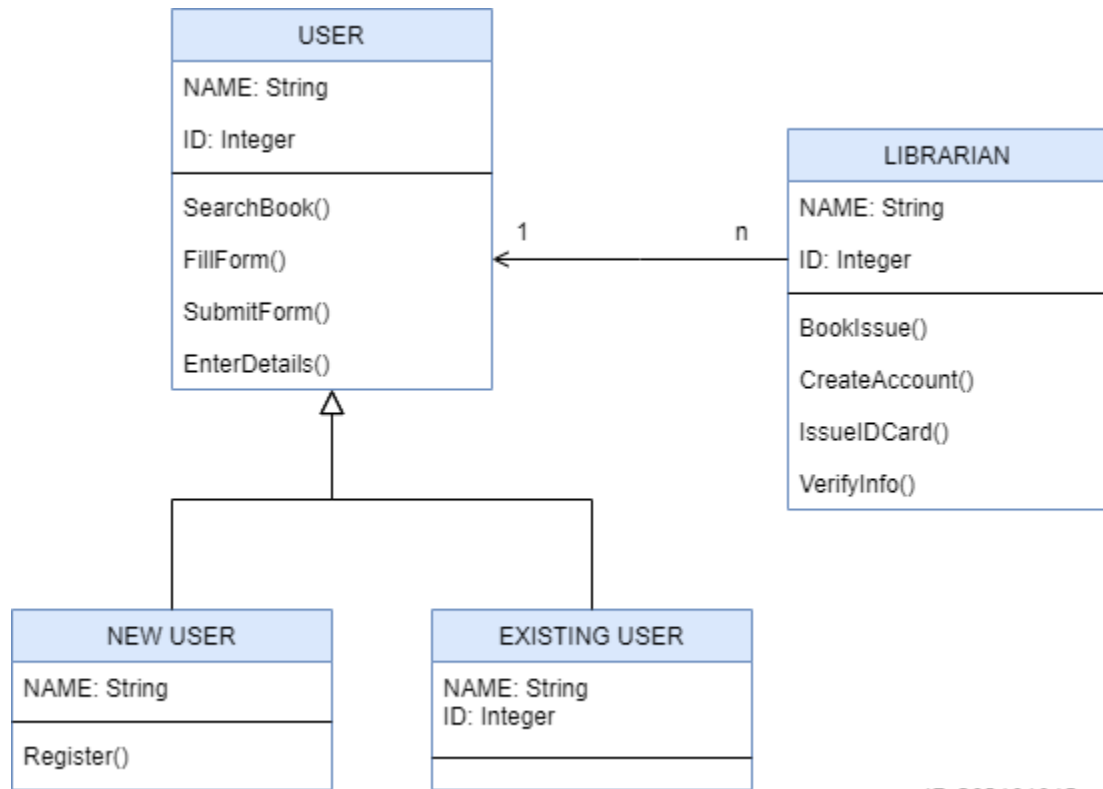
3.Can patching the production code and updating the Subversion repository be done in parallel?

Patching the production code and updating the Subversion repository can be done in parallel, as they are not dependent on each other. However, it is essential to generate the patch file first. Only then, it can be applied to the production code.



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CLASS DIAGRAM OF NEW USER REGISTRATION



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