

IT313 lab report

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Questions

1. 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.

Think over the following questions:

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

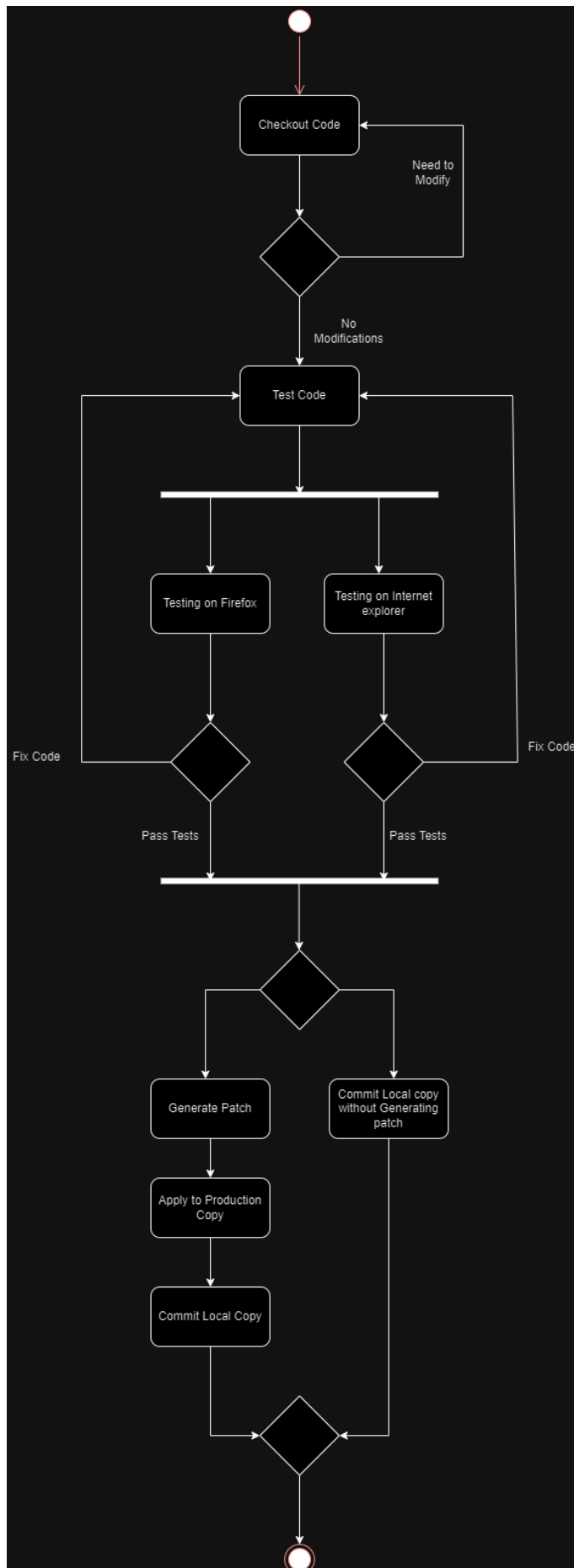
Testing of the application with multiple browsers is represented with “Testing on Firefox” and “Testing on Internet Explorer” using fork and merge as both of them can run in parallel

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

Generation of patch file and updation of the Subversion repository cannot be done concurrently as generation of patch file should occur before updation of Subversion repository as patch file must be generated before applying it to production code and subsequently updating the repository

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 independent of each other. However it is necessary that the patch file is generated beforehand so that both the processes of patching the production code using the patch generated and updation of the Subversion repository using the local code can be done in parallel



2. Draw class diagram for any one of the sprints by identifying objects, classes and their relationships.

