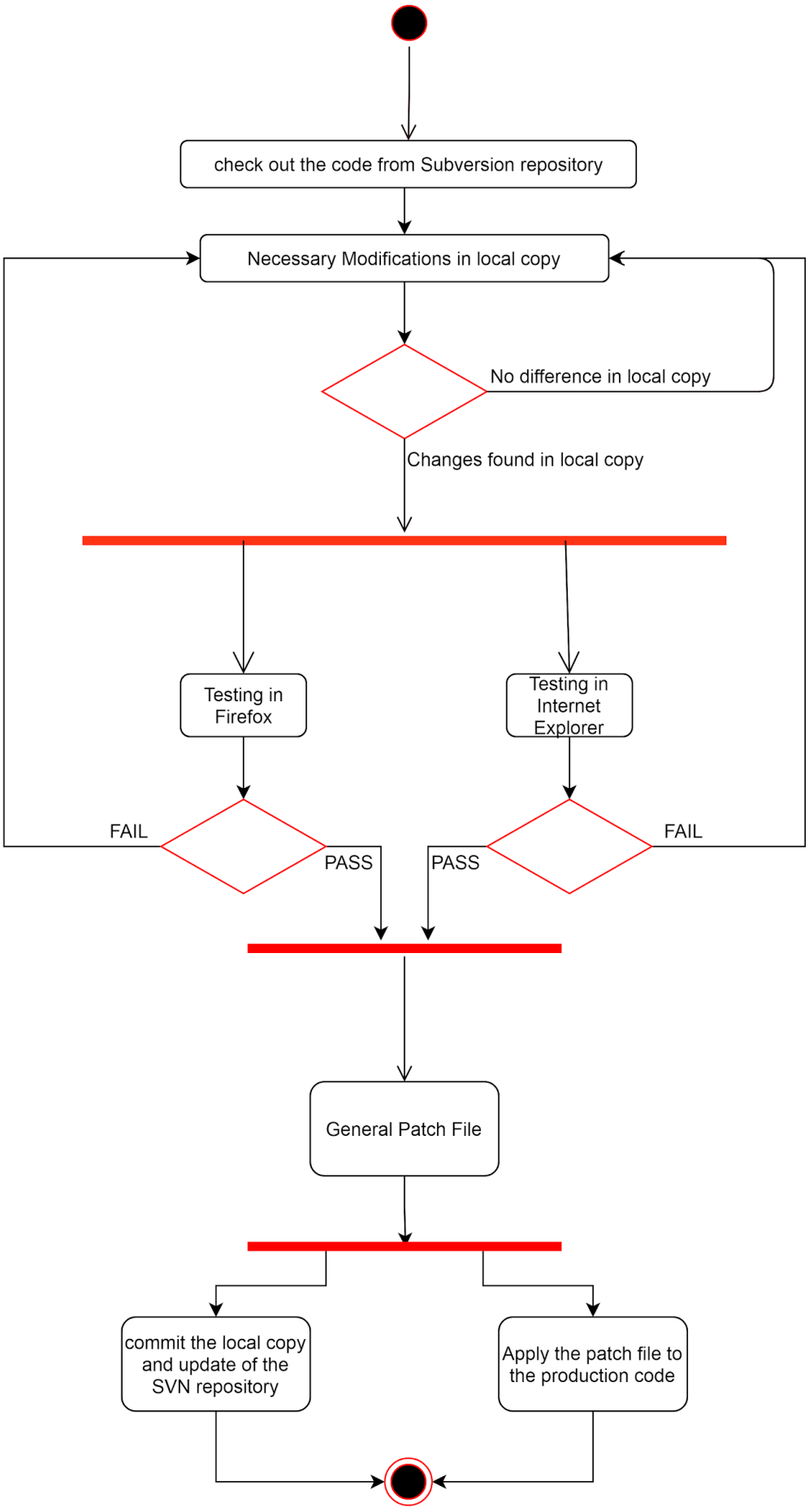
Draw an activity diagram to graphically represent the following workflow

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.


check out the code from Subversion repository
Necessary Modifications in local copy
No difference in local copy
Changes found in local copy
Testing in Firefox
Testing in Internet Explorer
FAIL
PASS
PASS
FAIL
General Patch File
commit the local copy and update of the SVN repository
Apply the patch file to the production code

Think over the following questions:

- How would you represent testing of the application with multiple browsers?
  Ans: As shown in the diagram above, through fork/join we will represent the testing of our application in multiple browsers, we will also wait for all the tests to be passed, and then we will proceed further.
- Can generation of the patch file and update the Subversion repository be done concurrently?
  Ans: No, the SVN repository update can only be done after the generation of the patch file.
- Can patching the production code and updating the Subversion repository be done in Parallel?
  Ans: Yes, both are independent operations and can be parallelized.