IT314-Software Engineering
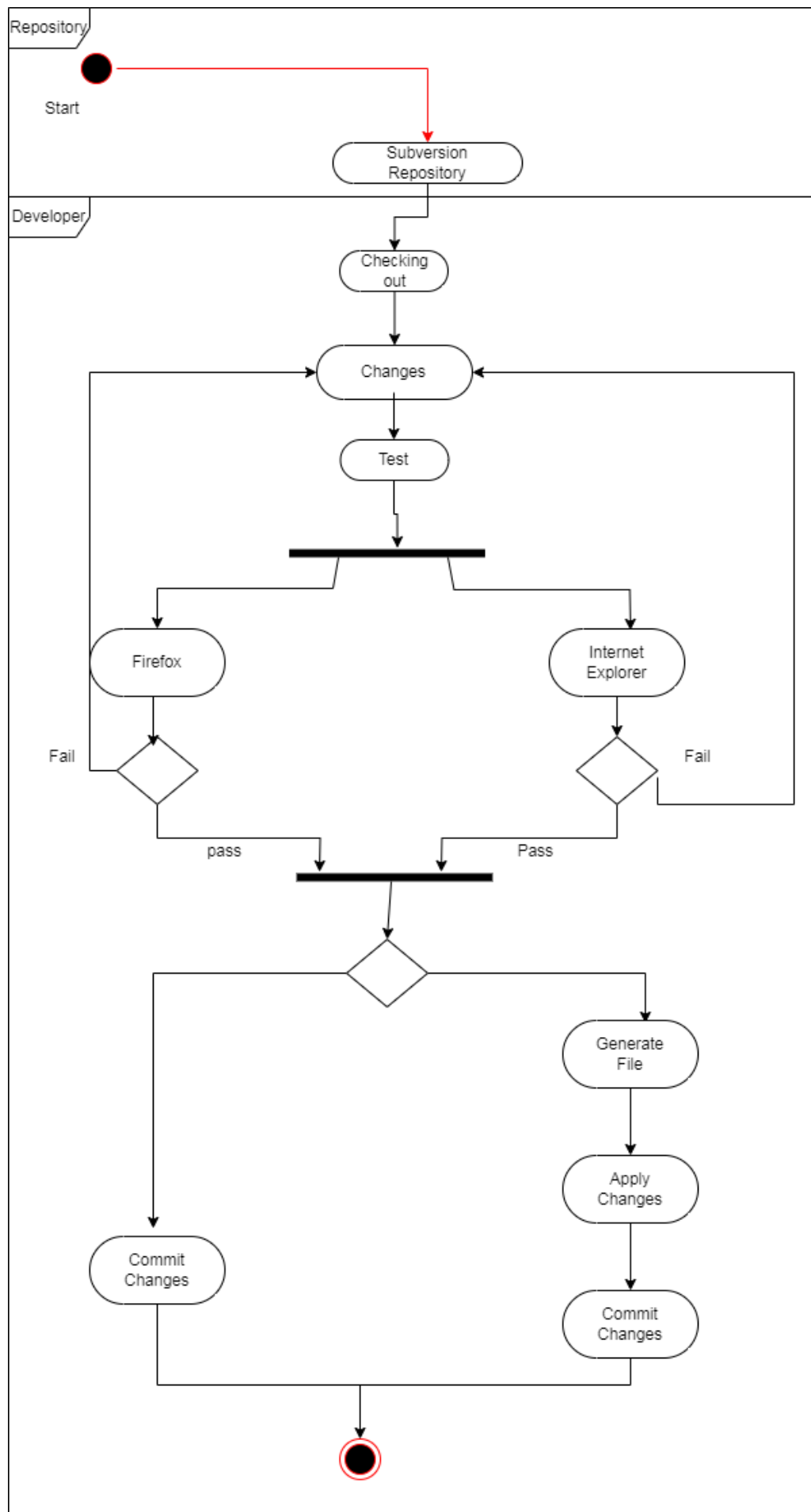
Lab : Activity & Class Diagram

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Activity Diagram:

Repository

Start

Subversion
Repository

Developer

Checking
out

Changes

Test

Firefox

Internet
Explorer

Fail

Fail

pass

Pass

Generate
File

Apply
Changes

Commit
Changes

Commit
Changes

1. **How would you represent testing of the application with multiple browsers?**
   After modifying the local copy, I represented testing across different browsers as two different actions in the activity diagram. There are two tests: one with Firefox and one with Internet Explorer. This demonstrates that the two browser tests are independent tasks that must be carried out in order.

2. **Can generation of the patch file and update the Subversion repository be done concurrently?**
   No, the generation of the patch file can only occur after both browser tests have passed. Thus these two activities cannot be done concurrently.

3. **Can patching the production code and updating the Subversion repository be done in parallel?**
   Yes, it is possible to update the Subversion repository and patch the production code simultaneously. You can apply the patch to the production code and simultaneously commit the local copy to the SVN repository after the patch file has been prepared, the application has been tested, and it has passed verification.

Class Diagram: