IT-314-SOFTWARE ENGINEERING

LAB-6

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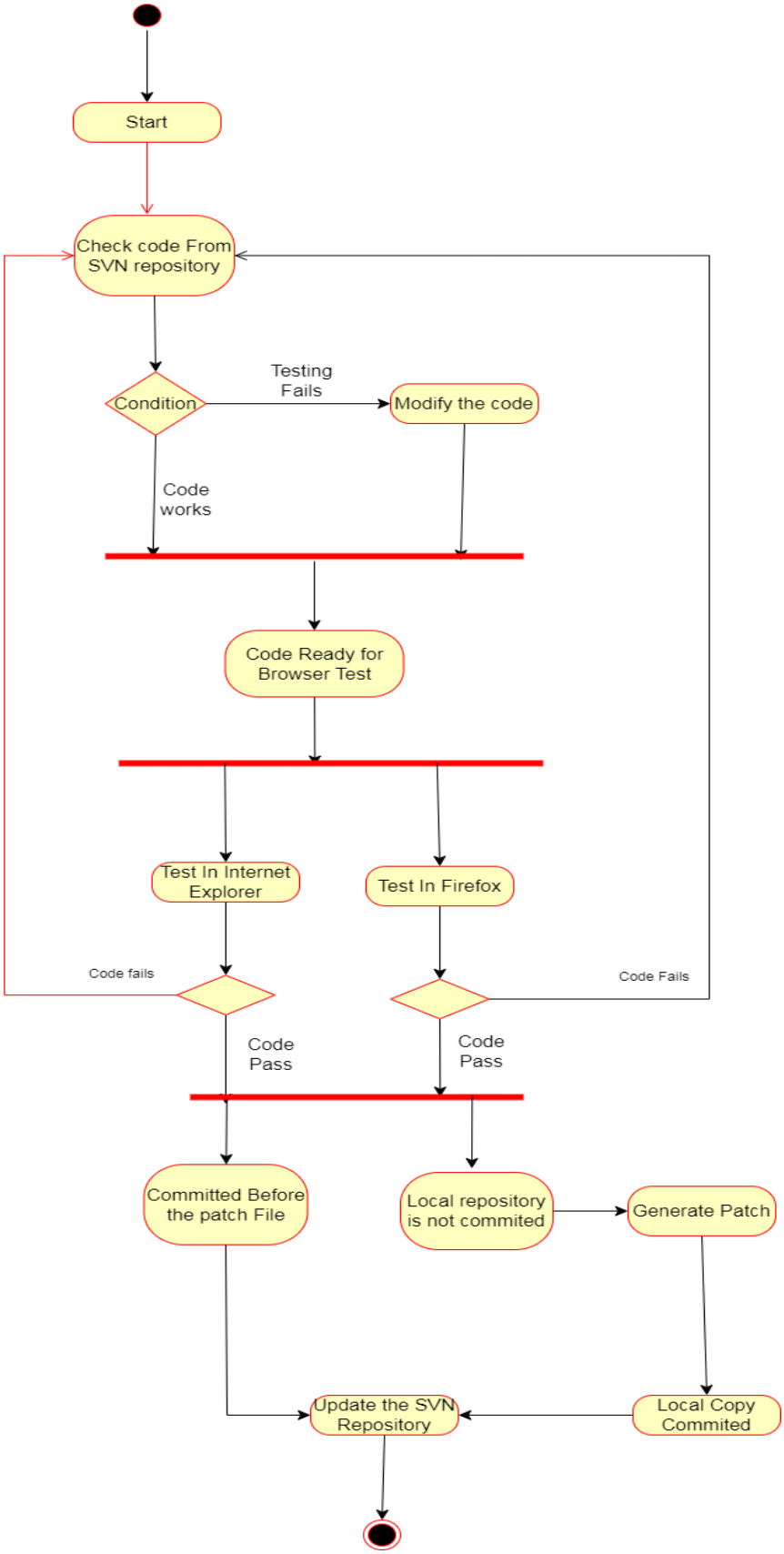
1. Activity diagram:



- ## Think Over Questions:

1) How would you represent testing of the application with multiple browsers?
In order for both actions to be completed and output to be produced simultaneously, we need to employ forking to symbolize testing the application across several browsers.

2) Can generation of the patch file and update the Subversion repository be done concurrently?
A first patch file won't be created before the patch is used in production code, followed by an update to the Subversion repository.

3) Can patching the production code and updating the Subversion repository be done in parallel?
Applying Patch to Production Code: After the patch has been successfully generated, the next step is possible. The workflow is finished by applying the patch to the production code. Committing Changes to SVN Repository: This step can only be completed after the production code has been patched. The SVN repository is updated after the modifications are committed.

- ## Learning Objectives:

1. Identify the basic units of work, and visualize the work flow:
The process involves creating a clone of the repository, making adjustments to the local code, and then running Firefox and Internet Explorer simultaneously. The procedure will execute if the local copy of the code is committed and every browser passes the test; otherwise, it will produce a patch file, not commit the local copy of the code, and then update the SVN repository.

2. Identify activities that could be done in parallel:
Both Firefox and Internet Explorer will have their code checked concurrently.

3. Identify stages from where progress could be made only after a list of criteria is satisfied:

1. If at least one of the two browsers (Internet Explorer and Firefox) fails the testing at the checking step, the code must be updated.

2. If a patch file is not able to be created because the local copy has already been committed.

2. Class diagram: