SE LAB 6

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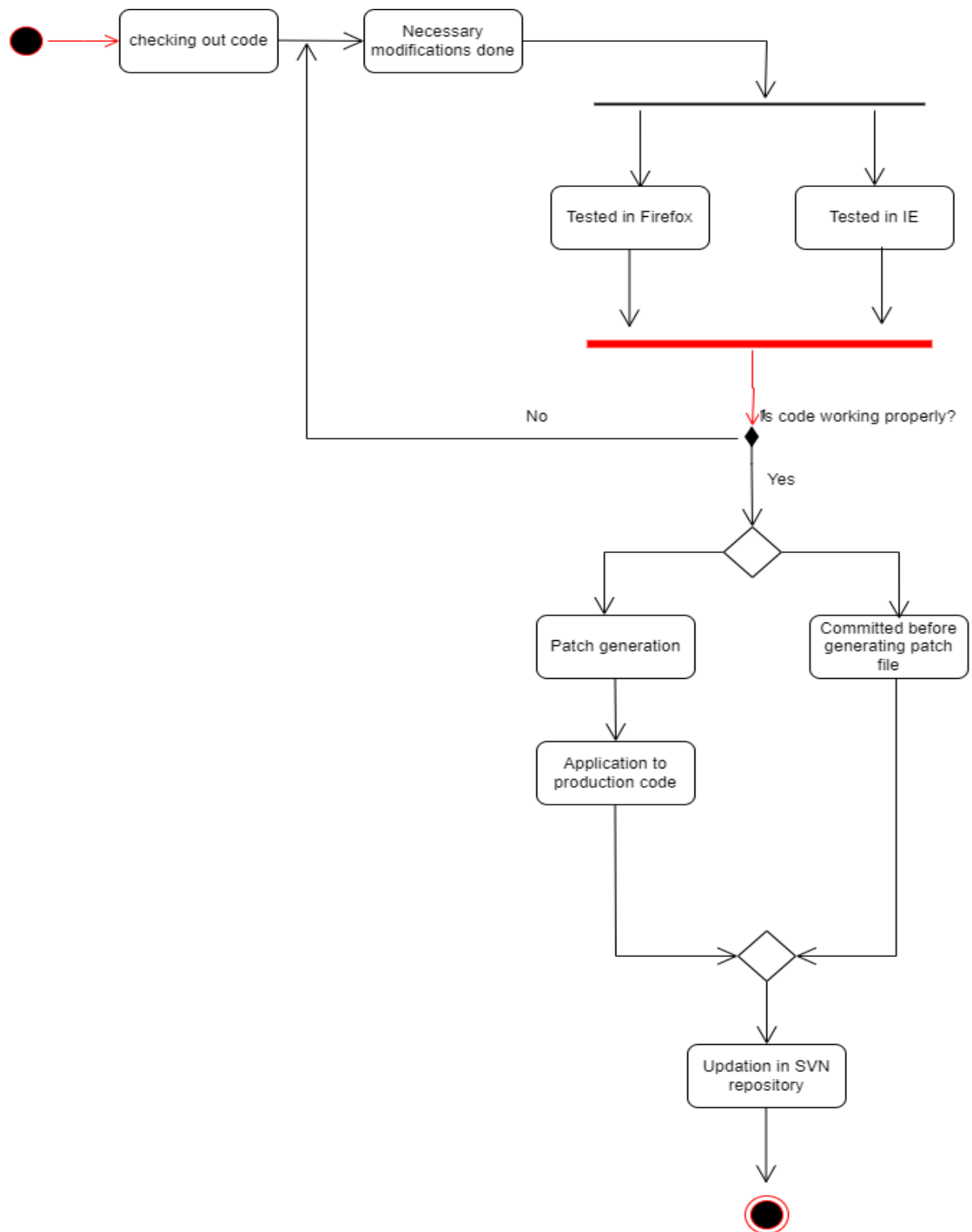
ID: 20210503

Group: 6

Class Diagram:

Activity Diagram:

checking out code → Necessary modifications done

Tested in Firefox

Tested in IE

Is code working properly?

No

Yes

Patch generation

Committed before generating patch file

Application to production code

Updation in SVN repository
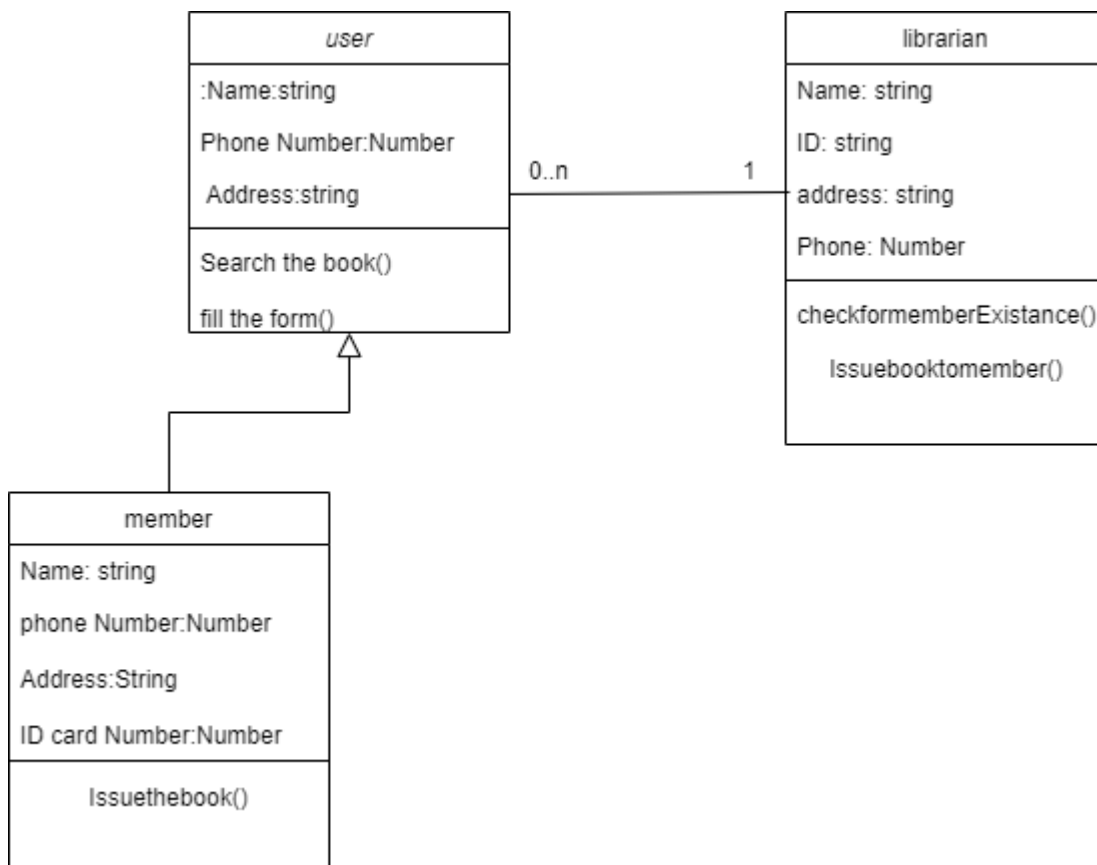
<u>Think over the following questions:</u>

1. **How would you represent testing of the application with multiple browsers?**
To represent the testing of the application with multiple browsers, we need to use fork so that both actions get executed and output will be generated at same time.

2. **Can generation of the patch file and update the Subversion repository be done concurrently?**
No, generation of the patch file and update the Subversion repository cannot be done concurrently. Either patch file will be created first and then the updating would happen or Subversion repository will be updated without creating the patch file.

3. **Can patching the production code and updating the Subversion repository be done in parallel?**
Yes, these two processes can be done parallelly as once you create patch file you can update the Subversion repository and you can also apply patch file to production code.

Learning Objectives:

1. **Identify the basic units of work, and visualize the work flow.**

   User makes the local copy of the code from SVN Repository.

   Then, user does necessary modifications and give it for testing.

   Code is tested on two browsers Firefox and Internet Explorer.

   If code doesn't pass the test on both the browser then code is remodified.

   After, passing the test patch file is created and applied to the production code.

   Finally, the SVN Repository is updated. If it is updated before creating the patch file then no patch file can be created afterwards.

2. **Identify activities that could be done in parallel**
   Checking on both the browsers can be done in parallel.

3. **Identify stages from where progress could be made only after a list of criteria is satisfied.**
   If at checking stage at least one of the two browsers (Firefox and Internet Explorer) fails in testing, the code must need some changes.
   If the local copy is committed before generating a patch file, and one will not be able to generate the patch file.