IT314 Software Engineering

Lab V: Activity & Class Diagram

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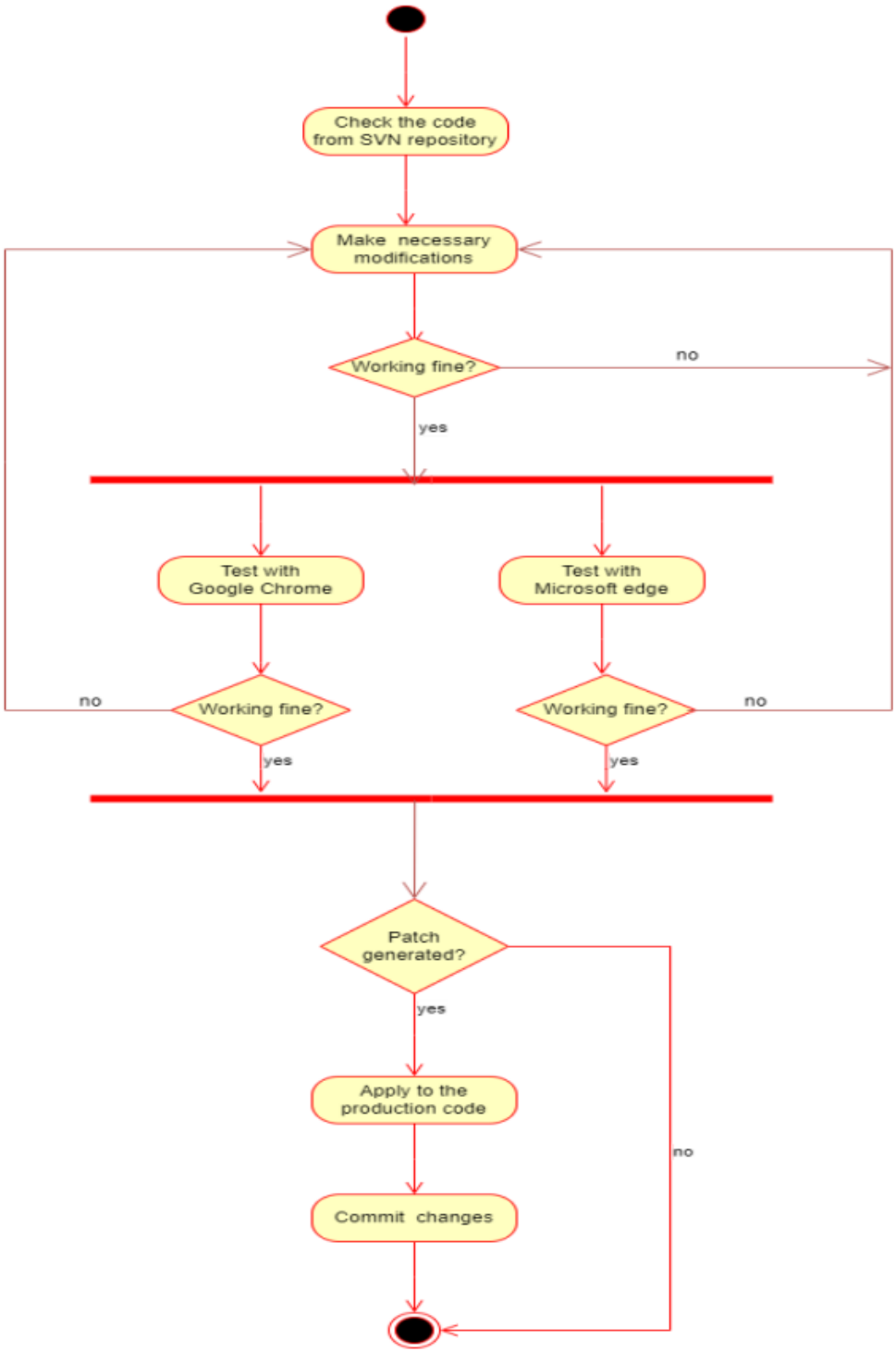

1. **How would you represent testing of the application with multiple browsers?**
   A: In order to demonstrate the comprehensive testing of the application across various browsers, we will employ a forking mechanism. This approach will make sure that final output is generated after successful testing on both browsers.

2. **Can generation of the patch file and update the Subversion repository be done concurrently?**
   A: No, Initially the patch file would be generated, then it will be applied to the production code, and then the Subversion repository will be updated.

3. **Can patching the production code and updating the Subversion repository be done in parallel?**
   A: No, first the production code is patched and then the Subversion repository is updated.

Learning Objectives

1. **Identify the basic units of work, and visualize the work flow**
   A: Firstly, the repository is copied and then the changes are made on local device, and the code is tested parallelly with two browsers. If, everything works fine, a patch file is generated and applied to the production code. After that, the SVN repository is updated. If, the patch file is not generated, then the process comes to an end.

2. **Identify activities that could be done in parallel**
   A: The testing of code with both browsers, Google Chrome and Microsoft Edge could be done in parallel.

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

A:

- If the code runs fine with both browsers, only thereafter the patch file is generated. Otherwise, the code needs to be changed so that it can run on both browsers.
- If the code runs fine with both browsers, only then the patch file is generated, applied to the production code, and the repository is updated. If, the patch file is not generated the repository cannot be updated and the process terminates.

Class Diagram (Book Issue Sprint)