

Name: Hemant Narayani

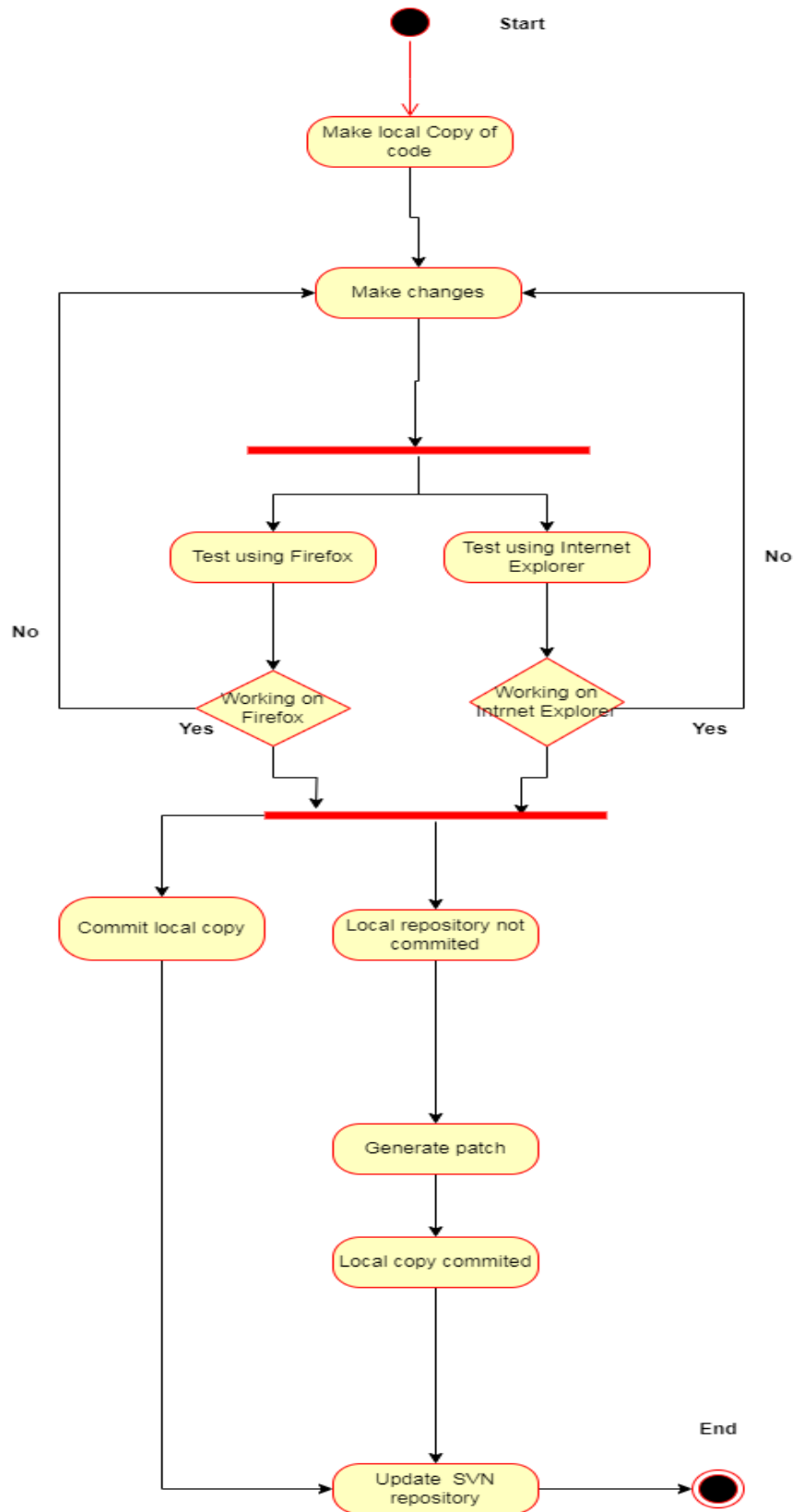
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Group - 4

IT314-Software Engineering (2022-2023)

Lab V: Activity & Class Diagram

Activity Diagram:



Think over questions:

- (1) To test the application on multiple browsers simultaneously, we utilize a "fork" process. This allows both actions to run concurrently, ensuring simultaneous execution and output generation.
- (2) Initially, a patch file isn't generated immediately. Instead, the patch is first created, then applied to the production code. Subsequently, the Subversion repository undergoes an update.
- (3) After successfully generating a patch, we advance to the stage of applying it to the production code. This step marks the completion of the workflow. Following that, the next progression involves committing changes to the SVN repository, but this can only happen after successfully applying the patch to the production code. Committing these changes is what ultimately updates the SVN repository.

Learning Objectives :

- 1) Recognize the fundamental tasks and visualize the workflow. Initially, a duplicate of the repository is constructed, adjustments are applied to the local code, and then testing occurs concurrently in Firefox and Internet Explorer. If all browsers pass the tests, the process proceeds with committing the local code. However, if any browser fails, it initiates the creation of a patch file, followed by committing the local code, and ultimately updating the SVN repository.
- 2) Identify tasks that can be executed simultaneously. The validation of code in both browsers (Firefox and Internet Explorer) will be carried out concurrently.
- 3) Identify stages where progress can only proceed once specific criteria are met:
 - Code modifications are required if either Firefox or Internet Explorer fails during the testing phase.
 - The local code can only be committed after the patch file has been created, preventing the creation of a patch file if the local code is committed prematurely.

Class Diagram (Issue sprint):

