

Name: Akshat Verma

RollNo.:2100290130020

Create State-chart and model activities for a given problem.

Ques) Let us consider the development activities of SE Virtual Labs. The process begins by checking out the code from Subversion repository. Necessary modifications are then made to the checked out code (local copy). Once the developer is done with his changes, the application has to be tested to verify whether the new functionality are working fine. This test has to be performed with two of the more popular web browsers: Firefox and Internet Explorer, to support cross-browser accessibility. If testing fails in at least one of the two browser, the developer goes back to his code, and fixes it. Only when all the browsers pass the test, a patch is generated from the local copy, and applied to the production code. The local copy is then committed resulting in update of the SVN repository. Note that, if the local copy is committed before generating a patch file, then local changes would get registered, and one won't be able to generate the patch file.

Various Model Activities Follows:-

start[\*] --> CheckedOutCode

CheckedOutCode --> MakingModifications: Modify code

MakingModifications --> Testing: Test application

Testing --> TestingFailed: If testing fails in at least one browser

Testing --> PatchGenerated: If testing passes in both browsers

TestingFailed --> MakingModifications: Fix code and modify

PatchGenerated --> ApplyingPatch: Apply patch to production code

ApplyingPatch --> CommittedToSVN: Commit changes to SVN repository

CommittedToSVN --> end[\*]

State-Chart Diagram

