

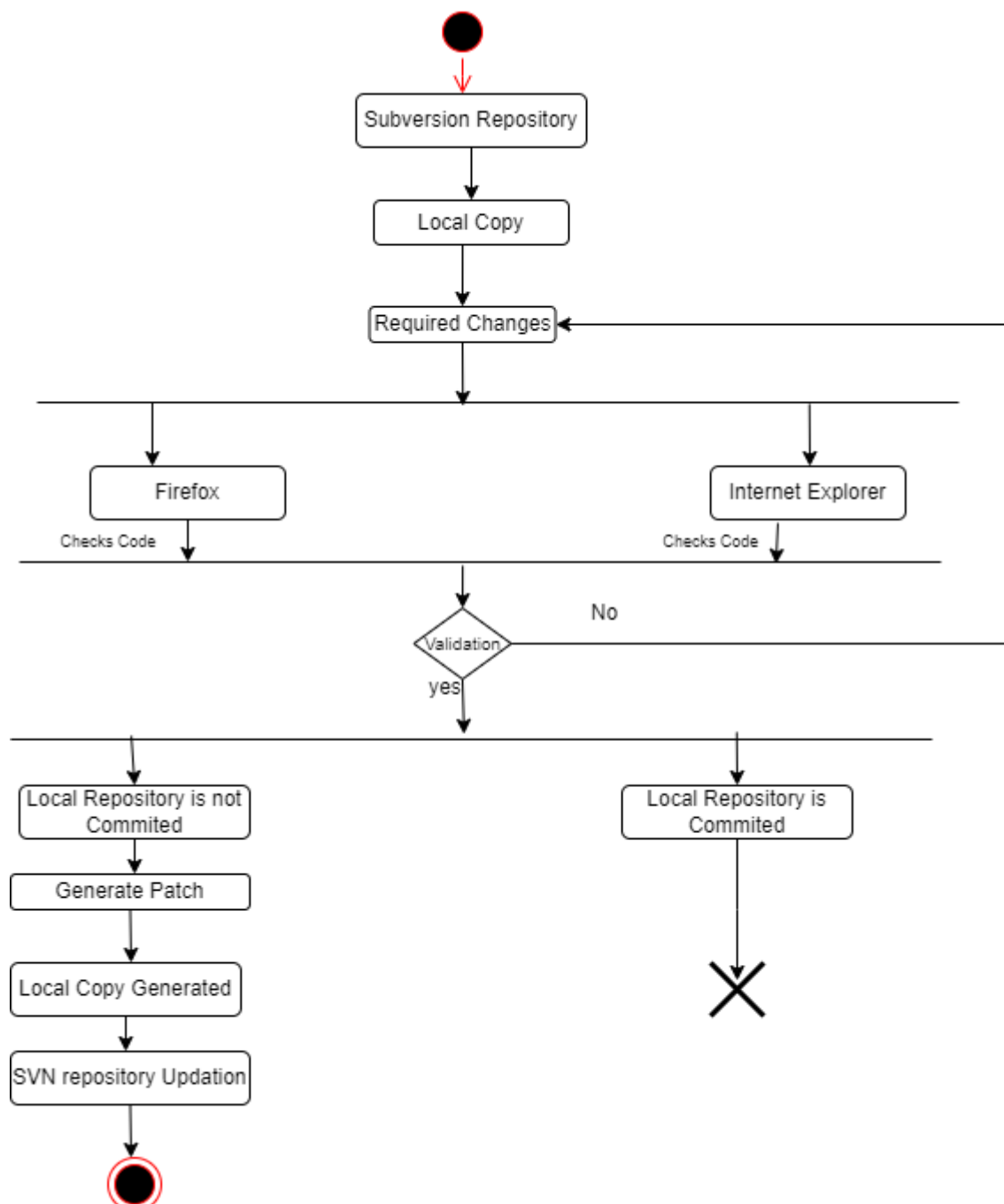
**IT314 : Software Engineering**  
**Lab 6 : Activity & Class Diagram**

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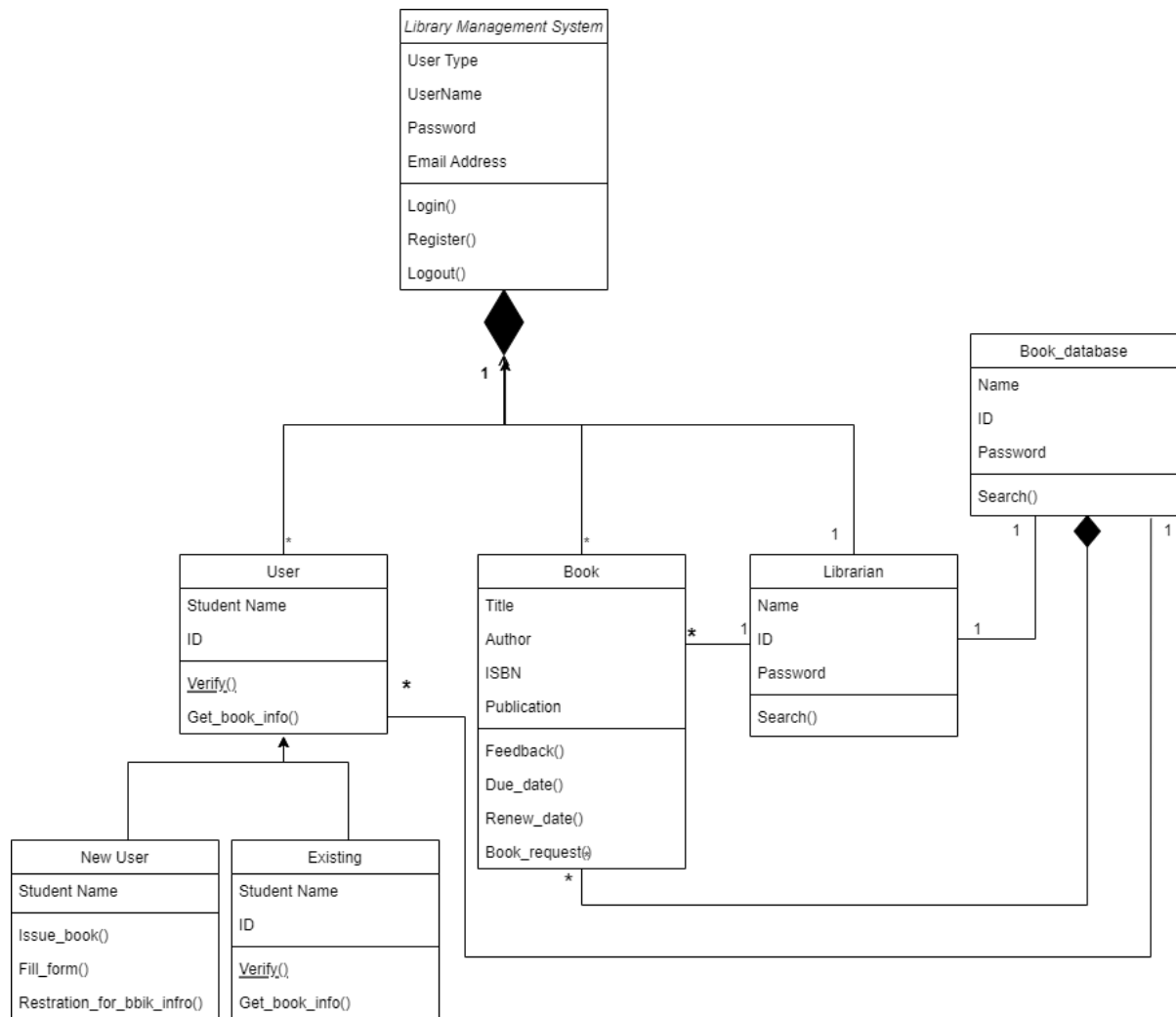
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**Lab\_Group :-** Group 3

**Activity Diagram :**



## Class Diagram :-



## **Questions : -**

### **1) How would you represent testing of the application with multiple browsers?**

- We must utilise fork to ensure that both operations are completed and output is produced simultaneously in order to reflect testing of the program across many browsers.

### **2) Can generation of the patch file and update the Subversion repository be done Concurrently?**

- No initial patch file will be created, followed by its application to the production code and updating of 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 generated successfully, you can move on to this step. 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.

- **Identify the basic units of work, and visualise the workflow**
  - In order to execute the local code modifications in parallel in Firefox and Internet Explorer, a clone of the repository must first be generated. If every browser passes the test, the procedure will run if the local copy is committed; if not, it will create a patch file, commit the local copy of the code, and then update the SVN repository.
- **Identify activities that could be done in parallel**
  - Both Firefox and Internet Explorer will have their code checked concurrently.

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

1.The code must be changed if at least one of the two tested browsers (Internet Explorer and Firefox) fails during the checking step.

2.If a patch file isn't able to be generated because the local copy was committed before it was,