IT 314 Software Engineering
Lab - 6

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Think over the following questions:

• How would you represent testing of the application with multiple Browsers?

Ans-By using Fork we represent testing of the application with multiple browsers because both Execute and output will get the same time that's why we use Fork.

• Can generate the patch file and update the Subversion repository be done Concurrently?

Ans- patch file generation will be done before updating the subversion repository.

• Can patching the production code and updating the Subversion repository be done in parallel?

Ans-We can say that both processes can be completed in parallel after generating the patch file as patching the production code will be done after doing so, and updating the subversion store can be done after doing so.

Learning Objectives:

• Identify the basic units of work, and visualize the workflow

Ans- A local copy of the repository is created first, changes are made to it, and then it is tested concurrently in Internet Explorer and Firefox. The local copy will only be committed if both browsers pass the test; otherwise, a patch file will be created, the local copy will not be committed, and the SVN repository will be updated.
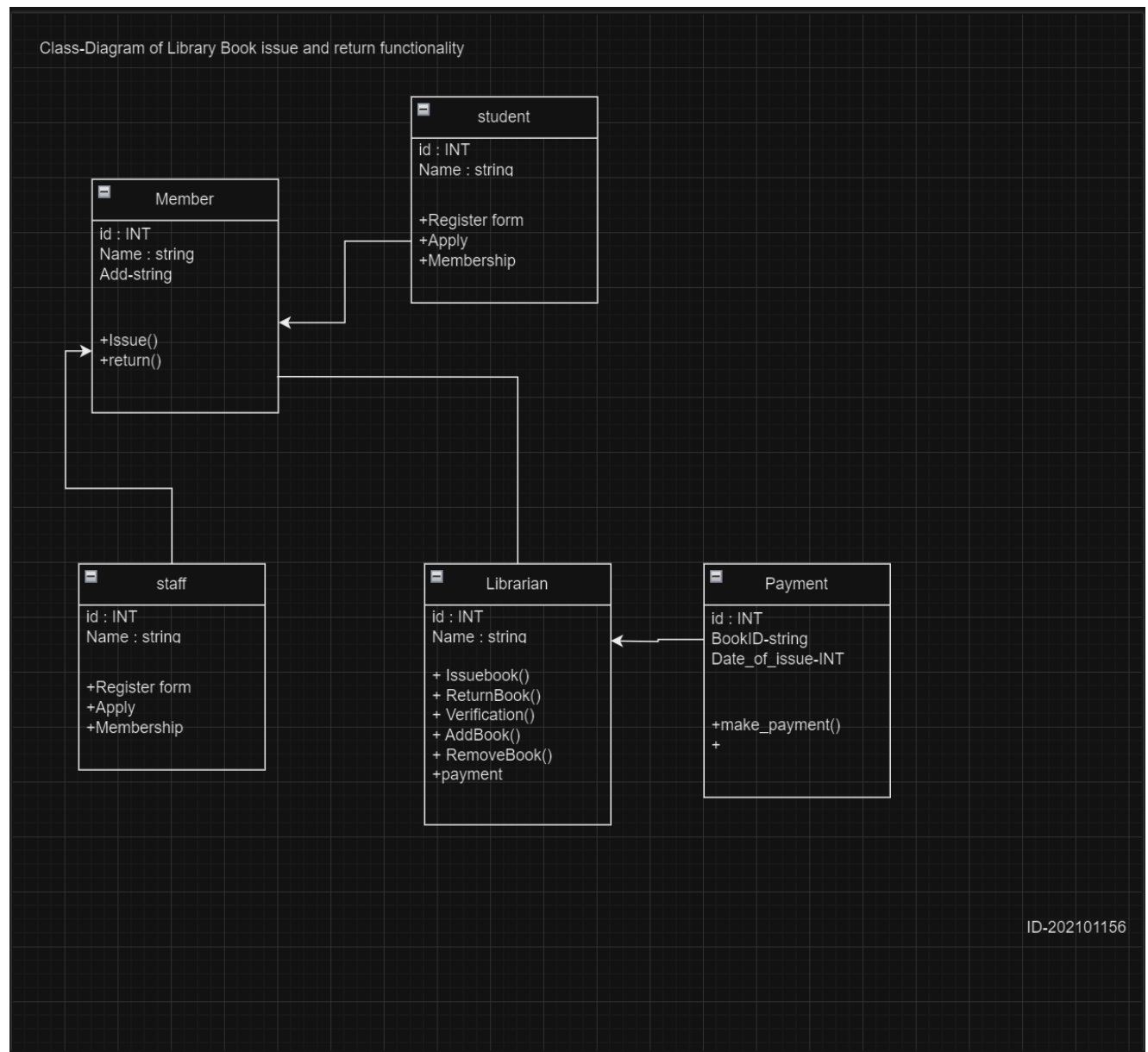
• Identify activities that could be done in parallel

Ans-testing of the code will be done in parallel.

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

Ans-When testing in browsers is complete, the file is committed if both browsers pass the test; otherwise, a new patch file is produced, applied to the production code, and the SVN repository is updated.

I. Class diagram

Class-Diagram of Library Book issue and return functionality

student
id : INT
Name : string

+Register form
+Apply
+Membership

Member
id : INT
Name : string
Add-string

+Issue()
+return()

staff
id : INT
Name : string

+Register form
+Apply
+Membership

Librarian
id : INT
Name : string

+ Issuebook()
+ ReturnBook()
+ Verification()
+ AddBook()
+ RemoveBook()
+payment

Payment
id : INT
BookID-string
Date_of_issue-INT

+make_payment()
+

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Activity Diagram

Activity Diagram

Checkout

Testing in fierfox

Testing with internet explozer

Patch File Generation

Patch uploaded to Production code & Commit changes

Commit Changes

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