IT-314
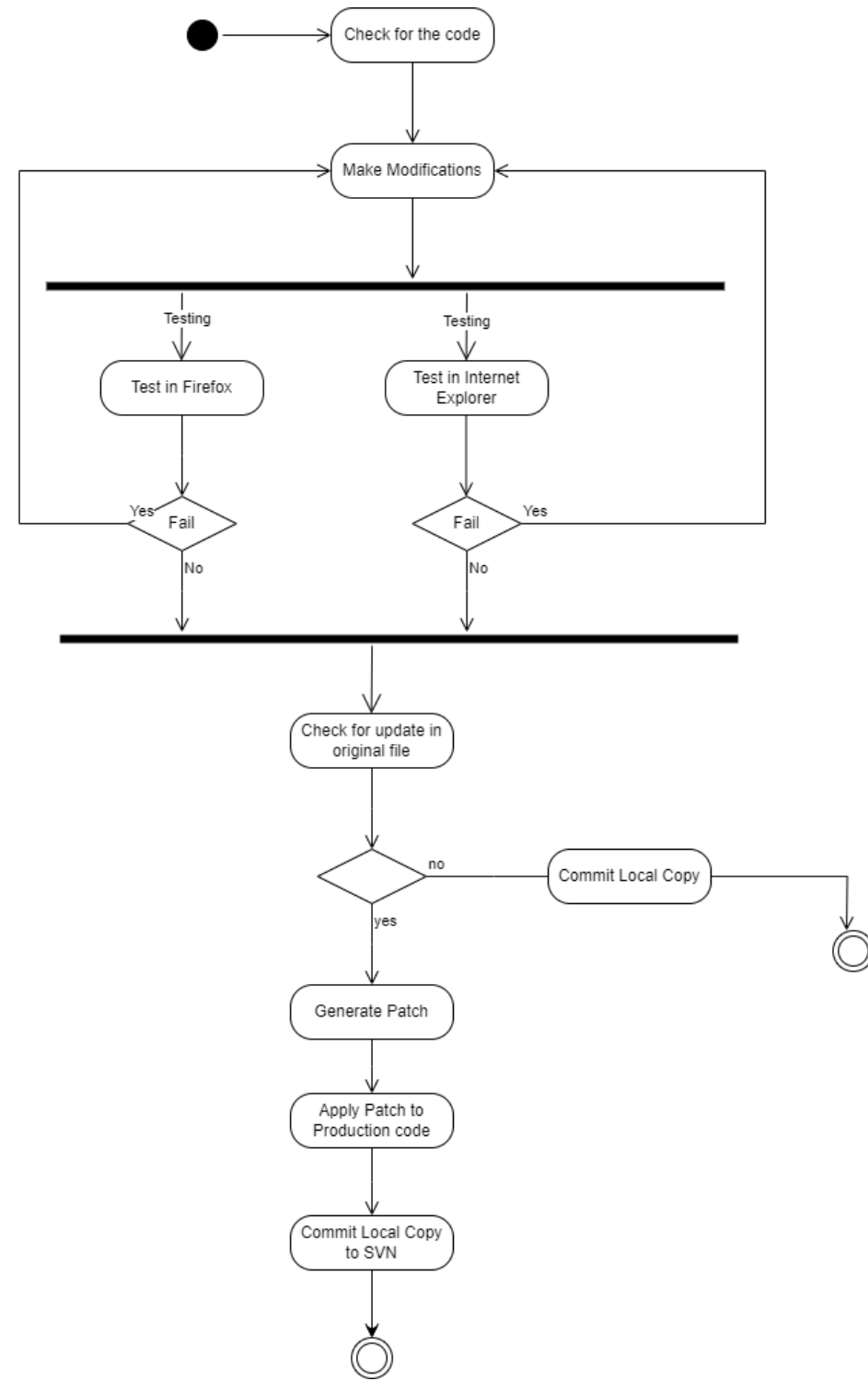
(Software Engineering)

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Activity Diagram :-

Think over questions :-

1) We must utilize a fork to ensure that both operations are completed and output is produced simultaneously in order to reflect testing of the program across two browsers.

2) No, it would not be done concurrently. Firstly, patch file will be generated, then that patch will be applied to production code and then the Subversion repository will be updated.

3) 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.

Learning Objectives :-

1) Identify the basic units of work, and visualize the workflow.

The process involves creating a clone of the repository, making adjustments to the local code, and then running Firefox and Internet Explorer simultaneously. The procedure will execute if the local copy of the code is committed and every browser passes the test; otherwise, it will produce a patch file, not commit the local copy of the code, and then update the SVN repository.

2) Identify activities that could be done in parallel.

Both Firefox and Internet Explorer will have their code checked in parallel.

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

i) If at least one of the two browsers (Internet Explorer and Firefox) fails the testing at the checking step, the code must be modified.

ii) If a patch file is not able to be created because the local copy has already been committed.

Class Diagram :- (Sprint : Book Issue)

Account

borrowed_Book
reserved_book
lost_book
max_capacity

can_borrow()
do_return()

1

1

USER

Name
Phone Number
Email Address
Loaned Books
Member_id

search_book()
borrow_book()

1

0....*

Book

Title
ISBN
Author
Genre
Release_Date

add_book()
delete_book()
search_book()
request_book()

0....*

Inventory

ISBN
no_of_copy

is_available()
update_inventory()

Staff

I'D
Name
Position

validate_user()
update_inventory()
create_transaction()
book_operation()

1

Transaction

Transaction_id
ISBN
Member_id
Loaned Books

do_transaction()
delete_transaction()