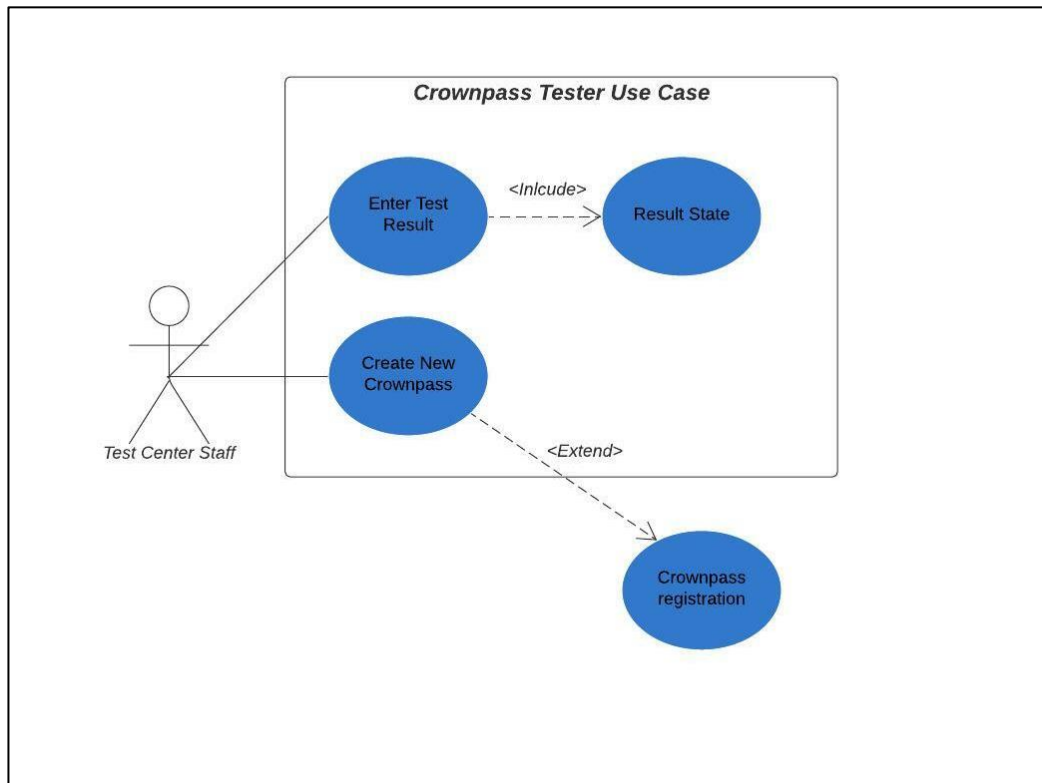


Software Engineering – Crownpass Tester

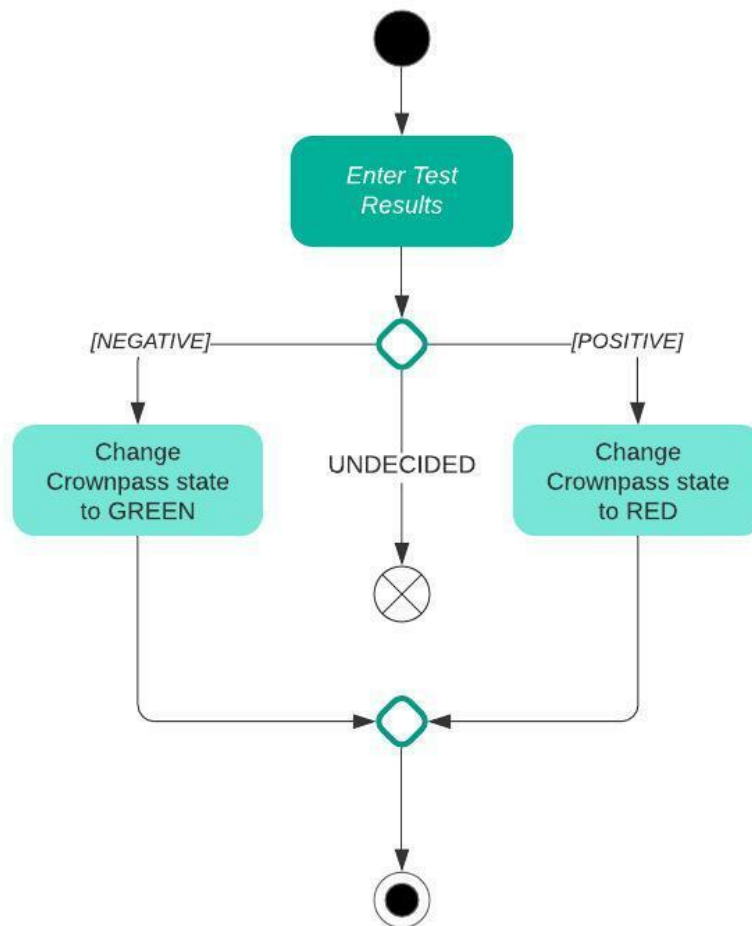
Task 1 - Software Modelling and Specification

Use Case Model:

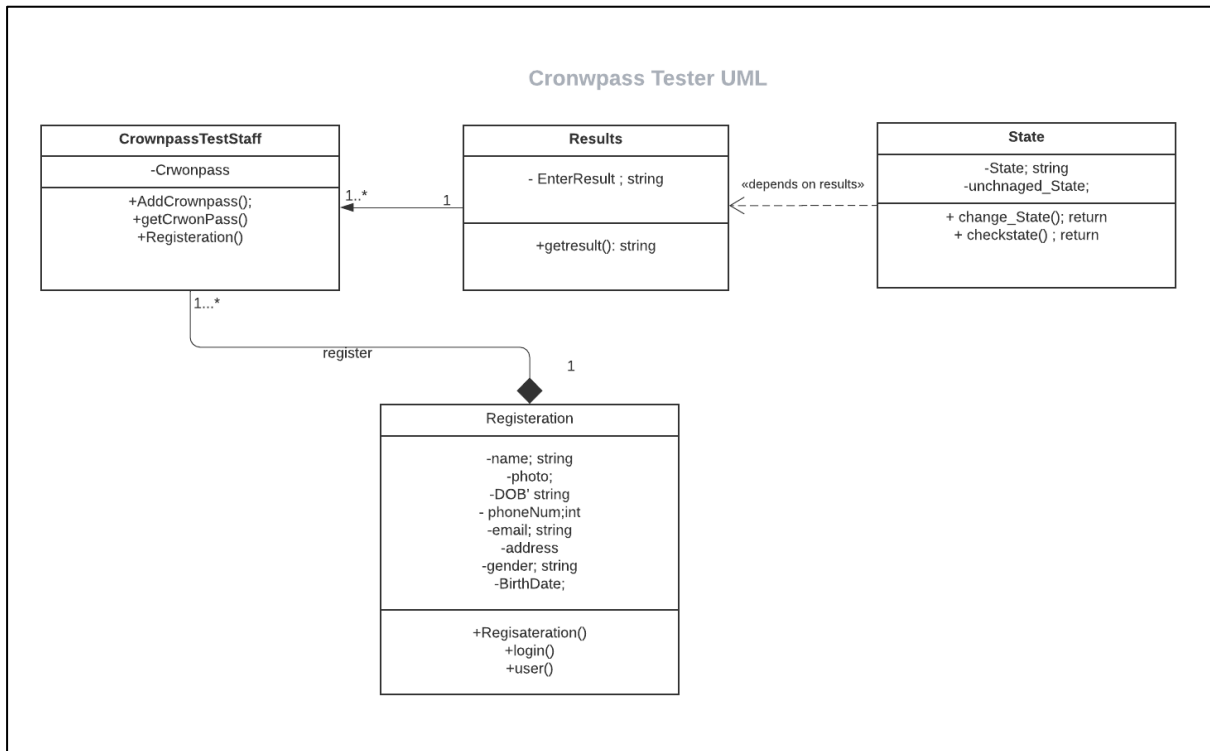


Activity Model

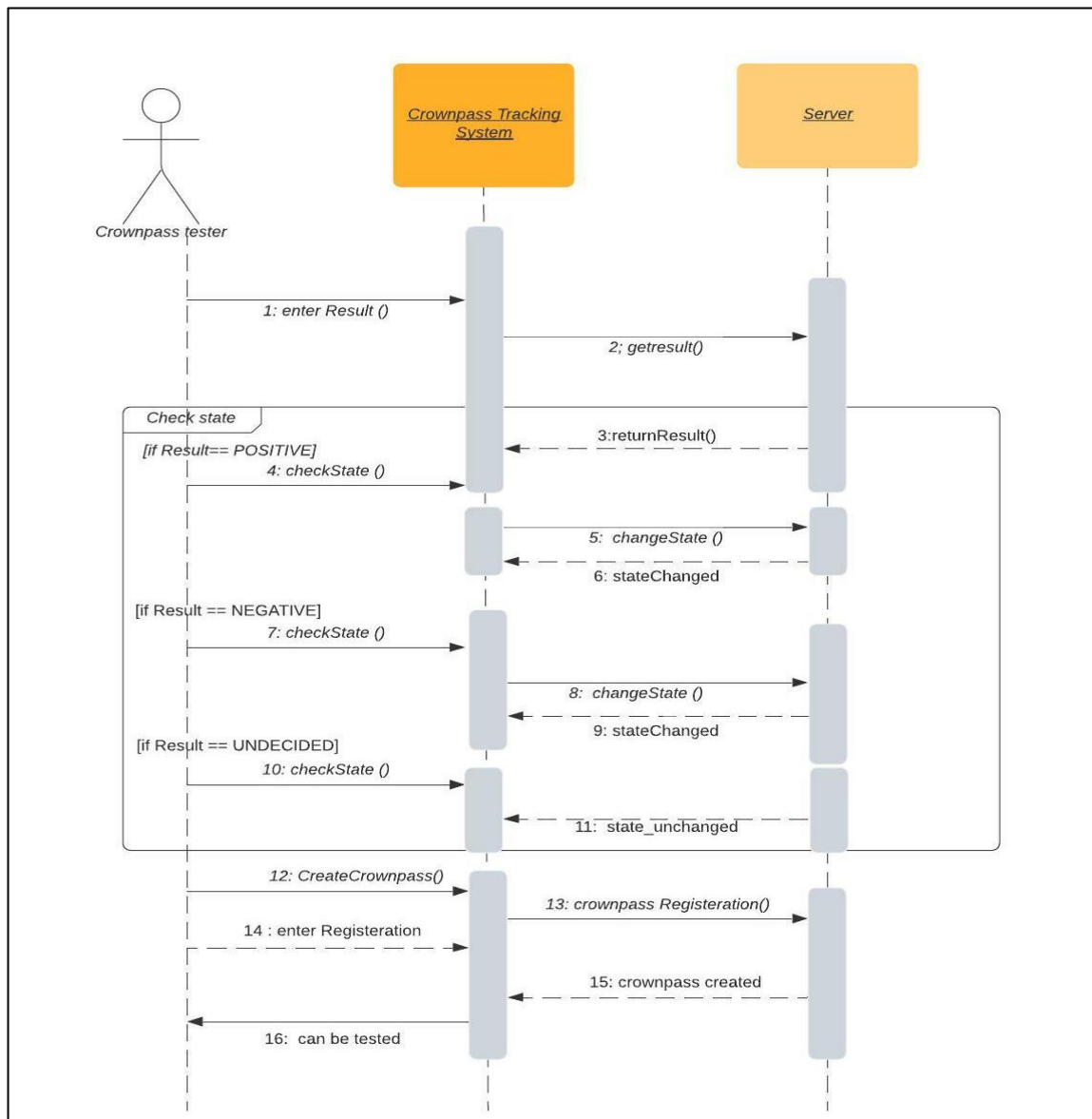
Activity diagram-Enter Test Result



Structural Model

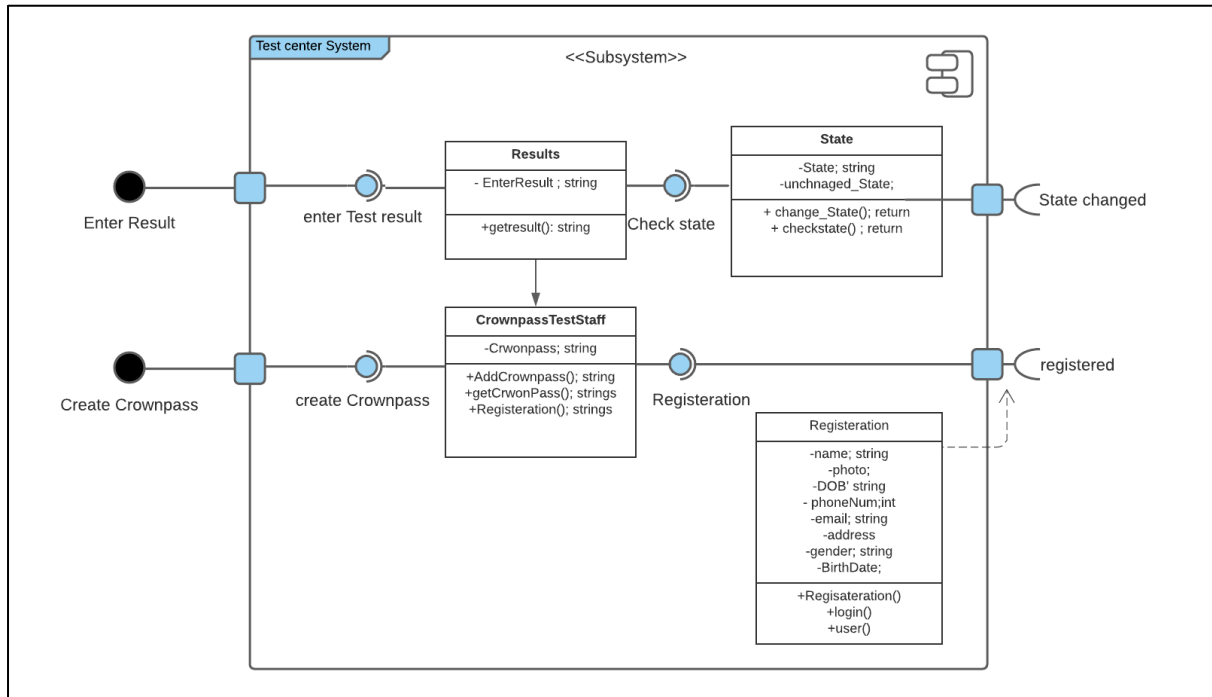


Behavioural Model – Sequence Diagram



TASK 2 - Software Architectural Design

Component Diagram



TASK 3: Software Testing

Unit-test plan

Test Case	Methods & Parameters	Expected Outputs
Correct input	getResult (Positive)	-State changed
Correct input	getResult (Negative)	-State changed
Correct input	getResult(Undecided)	-State unchnaged
Incorrect inputs	getResult (East)	Error Message
Empty result	getResult (NULL)	-Error Message: Please type in your result

System-Test plan

Use Case: Enter Result

Scenario: Successful change to the State of the Result NEGATIVE.

Test Staff	Test Centre tracking System
1.Enter Test result	2.Check Result/State
	3. if Results == NEGATIVE change State to GREEN no matter what state it is in
	4. State changed to GREEN Successfully Notification
5. View State	

Use Case: Enter Result

Scenario: Successful change to the State of the Result POSITIVE.

Test Staff	Test Centre tracking System
1.Enter Result	2.Check Result/State
	3.If the Result == POSITVIE change State to RED no matter what state it is in.
	4. State changed to RED Successfully Notification
5. View State	

Use Case: Enter Result

Scenario: Undecided Result should remain as it is

Test Staff	Test Centre tracking System
1.Enter Result	2.Check Result/State
	3. if the Result == UNDECIDED, State should remain as it is
	4. State Unchanged Notification
5. view State (Unchanged)	

Derive Test from Scenario

Test Data:

- Input:
 - Enter Result: Result; NEGATIVE, POSITIVE, UNDECIDED
 - State: RED, GREEN
- Stored Data
 - On Staff Apps: View State change, results Stored.
 - On Staff Tracking System:
- Output:
 - State changed to the correct criteria
 - POSITIVE: RED
 - NEGATIVE: GREEN

Test Process:

1. Set up Test Context
 - a. In staff App: 3 choices Negative, Positive or UNDECIDED only
 - b. Result Database: (a) To contain the staff Result entered with the States that has been changed. (b) The Result state should meet the criteria given in the Test Data section. POSITIVE: RED, NEGATIVE: GREEN.
2. Enter Results:
 - a. Expected: NEGATIVE, POSTIVE, UNDECIDED
 - b. Check: if the Result matches the criteria
3. Change State Request
 - a. Expected output: Positive to red and negative to green, undecided should remain as it is.
 - b. Check: if the state matches the criteria given.
4. View State in the app
 - a. Expected output: The State is changed when the result is given. Undecided should keep the state as it is.