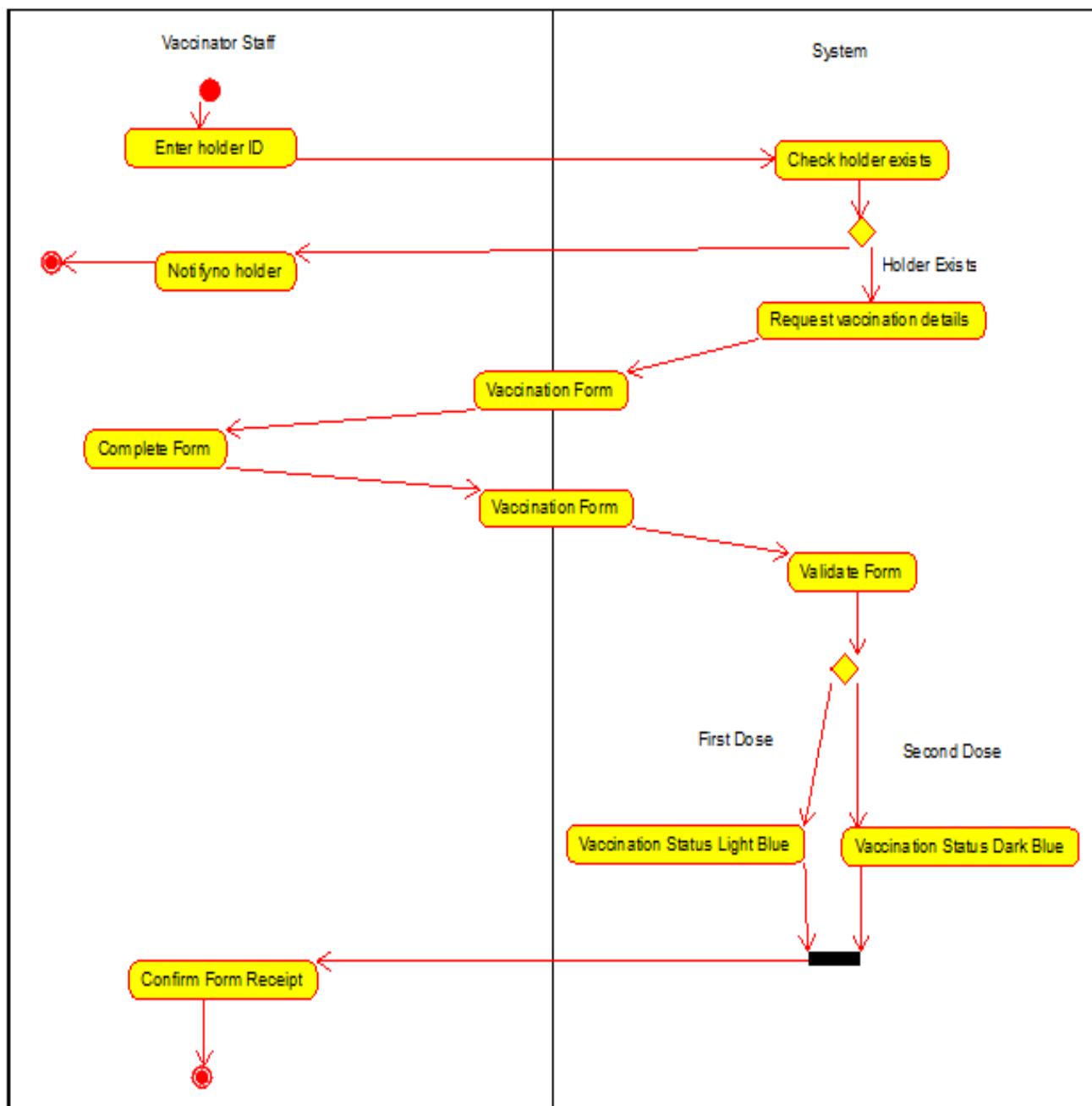
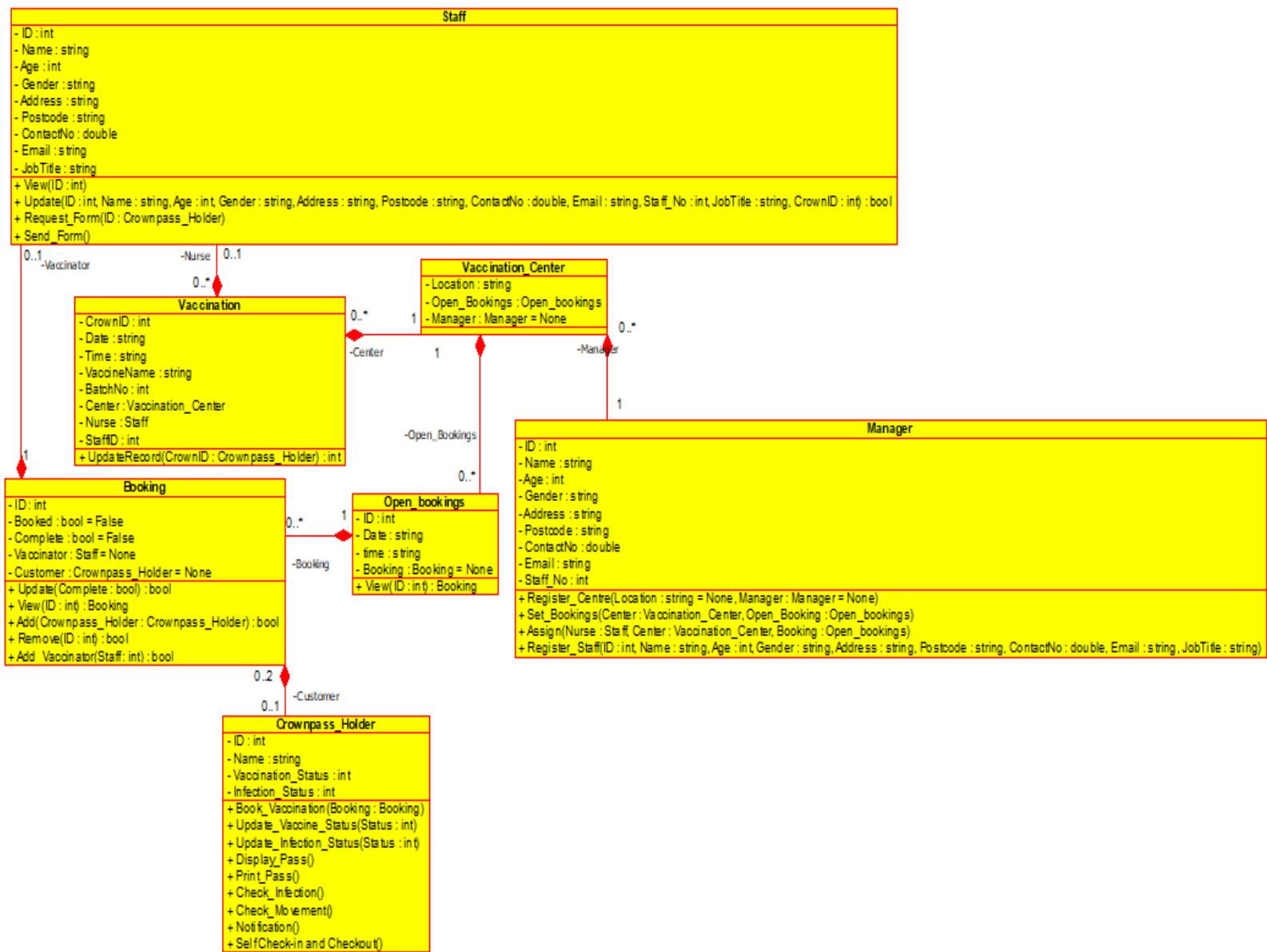


## Activity Diagram

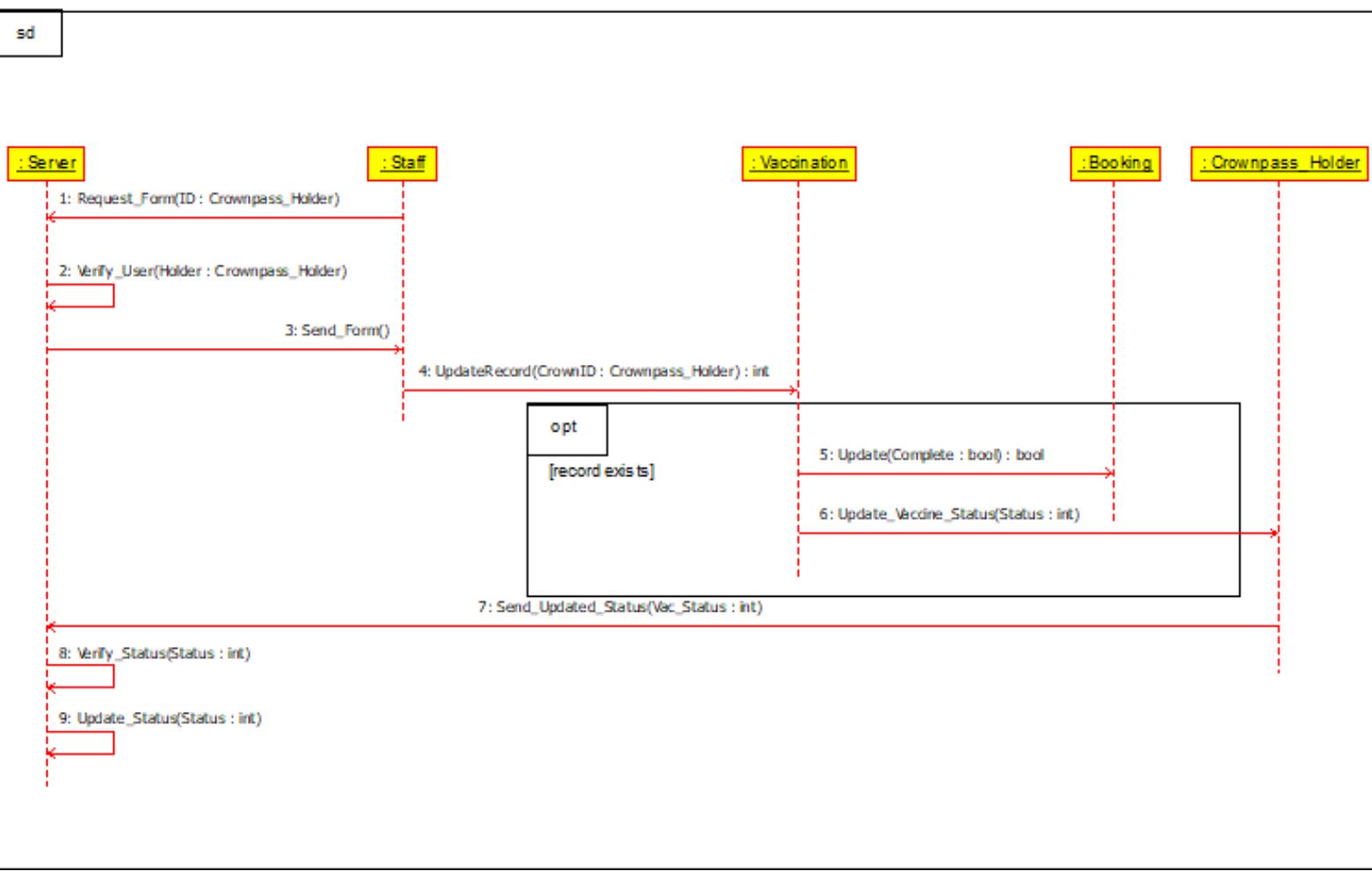
Record Vaccination



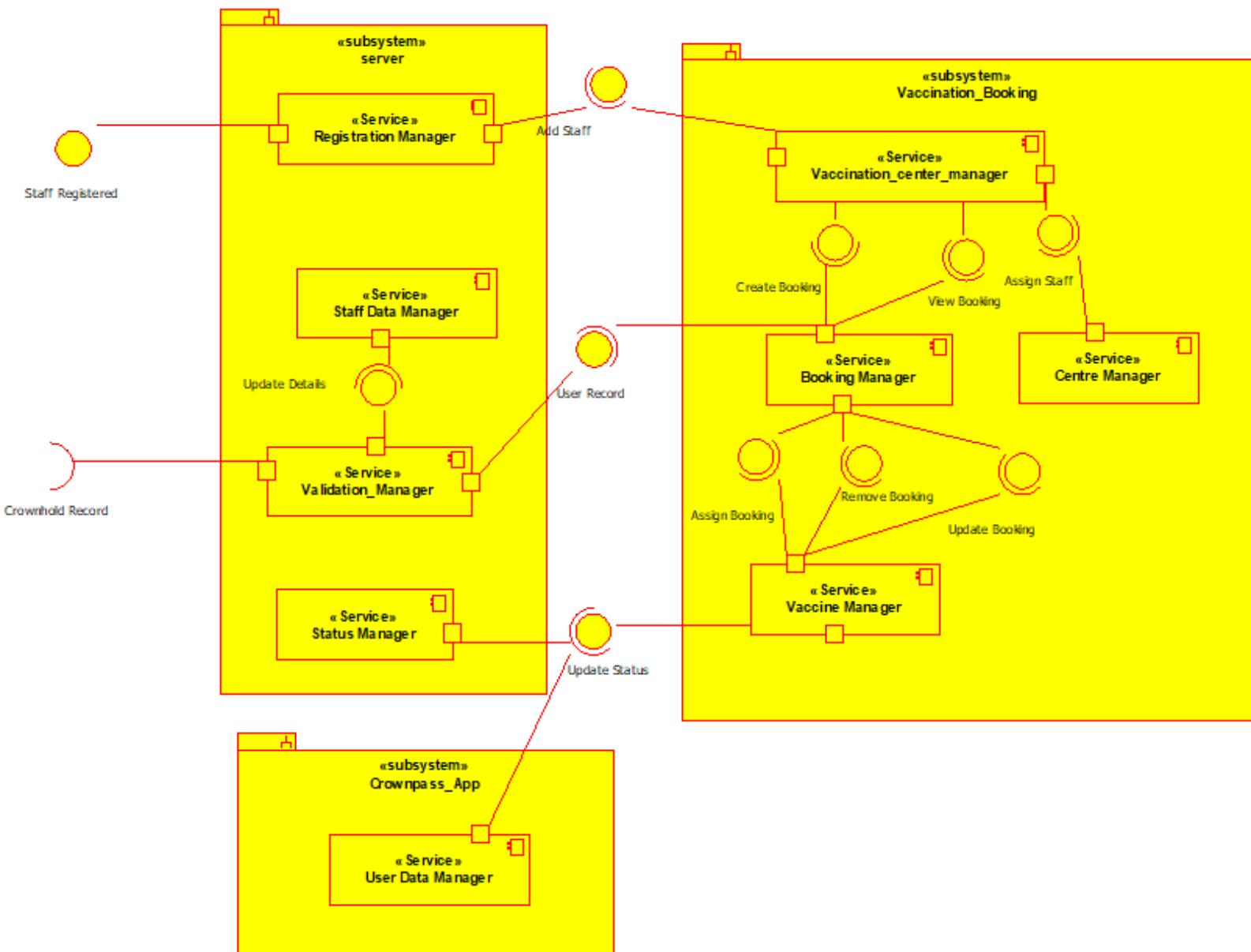
## Class Diagram



## Sequence Diagram



## Component Diagram



## **Unit Test**

Class: Booking

Test Case ID	Description	Pre-conditions	Data	Steps	Expected Result
1	Create booking	Manager(Set_bookings)	ID: 1, Booked: False, Complete: False, Vaccinator: None, Customer: None  Booking(1, False, False, None, None)	1. Create booking object with supplied data values.	Booking object created successfully with ID value of 1.
2	Add customer	Crownpass Holder(Book_Vaccination), Booking created	Crownpass_Holder: holder object  Add(holder)	1. Create booking object 2. Create crownpass holder object 3. Call add customer method on booking object with the crownpass holder object as a parameter.	Customer variable in booking object set to crownpass holder object, True value returned.
3	Add customer Failed	Booking created	Add(holder)	1. Create booking object 2. Call add customer method on booking object with invalid crownpass holder object as a parameter.	False value returned.

4	View Booking	Booking Created	ID: 1 View(1)	1. Create booking object with ID value 1. 2. Call view booking method with parameter value 1.	Booking object returned with ID value of 1 and all other fields False and None.
5	Booking does not exist		View(1)	1. Call view booking method with parameter value 1.	Error Message
6	Remove Booking	Booking Created	ID: 1 Remove(1)	1. Create booking object with ID value 1. 2. Call remove booking method with parameter value 1.	Booking object with an ID value 1 is removed and True boolean value returned.
7	Remove non-existent booking		ID: 1 Remove(1)	1. Call remove booking method with parameter value 1.	False boolean value returned.
8	Update booking	Booking Created	Complete: True Update(True )	1. Create booking object. 2. Call update booking method with parameter value True	Booking object complete variable value is set to True and True value is returned.
9	Update Booking failed		Complete: True Update(False )	1. Call update booking method with parameter value False	False value returned.
10	Add Vaccinator	Booking created, staff object created.	Staff: 1 Add_Vaccinator(1)	1. Created booking object 2. Create staff object with ID	Booking object vaccinator variable is set to staff object and True value is returned.

				value of 1. 3. Call Add_Vaccinat or method on booking object with parameter value of 1	
11	Add invalid staff member	Booking created	Add_Vaccin ator(1)	1. Created booking object 2. Call Add_Vaccinat or method on booking object with parameter value of 1	False value returned.

## **System Test**

Use Case: Record Vaccination

Scenario: Crownpass holder details do not exist

Vaccinator	System
1. Enter holder ID	2. Validate holder data
	3. Notify vaccinator holder details cannot be found
4. Notify invalid holder ID.	

Test Data:

Input: crownpass holder ID number

Stored Data:

- Vaccination center:
  - Crownpass holder: no data stored
  - Cloud: no data stored

Output:

- Error Message

Test Process:

1. Set up test environment
  - a. Vaccination center: not to store customer data
  - b. Server: to contain list of crownpass holder information linked to ID numbers
2. Enter customer information
  - a. Expected: ID number
  - b. Check: if ID is a number
3. Validate customer ID
  - a. Expected: False
  - b. Check: output matches expected result
4. Send result to vaccination center
5. Notify Vaccinator
  - a. Expected: Error message
  - b. Check: Error message returned

Scenario: Crownpass holder records first vaccination dose.

Vaccinator	System
1. Enter holder ID	2. Validate holder data
	3. Notify vaccinator holder details cannot be found
	4. Send vaccination information form
5. Submit Complete form	6. Validate form information
	7. Update vaccination record
8. Confirm updated details	

Test Data:

Input: crownpass holder ID number, vaccination status integer

Stored Data:

- Vaccination center:
  - Crownpass holder: no data stored
  - Cloud: Vaccination data and customer data stored.

Output:

- Success Message

Test Process:

1. Set up test environment
  - a. Vaccination center: not to store customer data
  - b. Server: to contain list of crownpass holder information linked to ID numbers
2. Enter customer information
  - a. Expected: ID number
  - b. Check: if ID is a number
3. Validate customer ID
  - a. Expected: True
  - b. Check: output matches expected result
4. Send vaccination status form
5. Submit vaccination form
  - a. Expected: Integer representing vaccination status
  - b. Check: If integer is within range 1 and 2
6. Validate vaccination status
  - a. Expected: 1
  - b. Check: integer represents first vaccine dose
7. Update customer account vaccine status
  - a. Expected: customer account vaccine status updated to 1
  - b. Check: vaccine status has been amended to correct value
8. Confirm updated status

Scenario: Crownpass holder records first vaccination dose.

Vaccinator	System
1. Enter holder ID	2. Validate holder data
	3. Notify vaccinator holder details cannot be found
	4. Send vaccination information form
5. Submit Complete form	6. Validate form information
	7. Update vaccination record
8. Confirm updated details	

Test Data:

Input: crownpass holder ID number, vaccination status integer

Stored Data:

- Vaccination center:
  - Crownpass holder: no data stored
  - Cloud: Vaccination data and customer data stored.

Output:

- Success Message

Test Process:

1. Set up test environment
  - a. Vaccination center: not to store customer data
  - b. Server: to contain list of crownpass holder information linked to ID numbers
2. Enter customer information
  - a. Expected: ID number
  - b. Check: if ID is a number
3. Validate customer ID
  - a. Expected: True
  - b. Check: output matches expected result
4. Send vaccination status form
5. Submit vaccination form
  - a. Expected: Integer representing vaccination status
  - b. Check: If integer is within range 1 and 2
6. Validate vaccination status
  - a. Expected: 2
  - b. Check: integer represents first vaccine dose
7. Update customer account vaccine status
  - a. Expected: customer account vaccine status updated to 2
  - b. Check: vaccine status has been amended to correct value
8. Confirm updated status