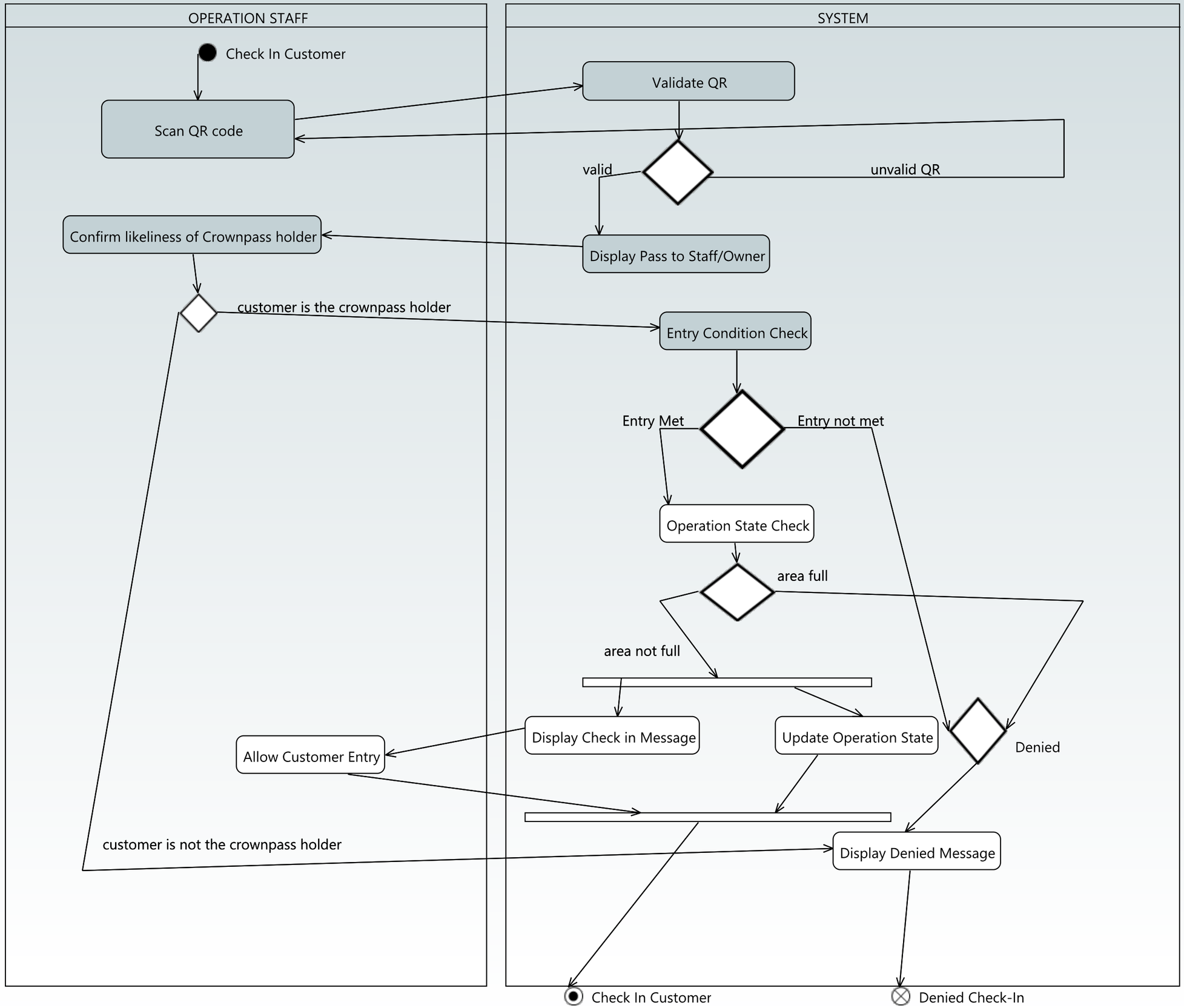
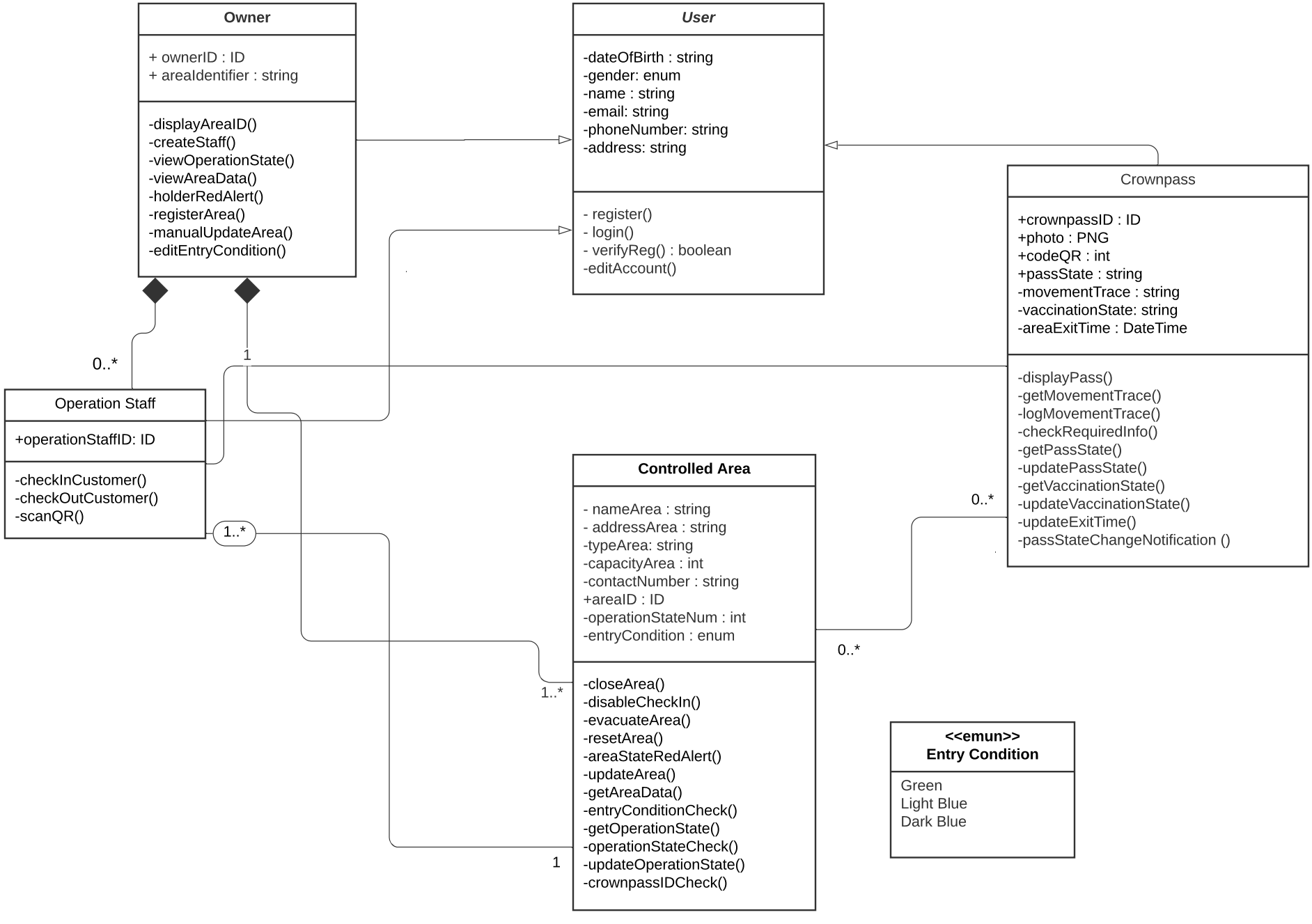
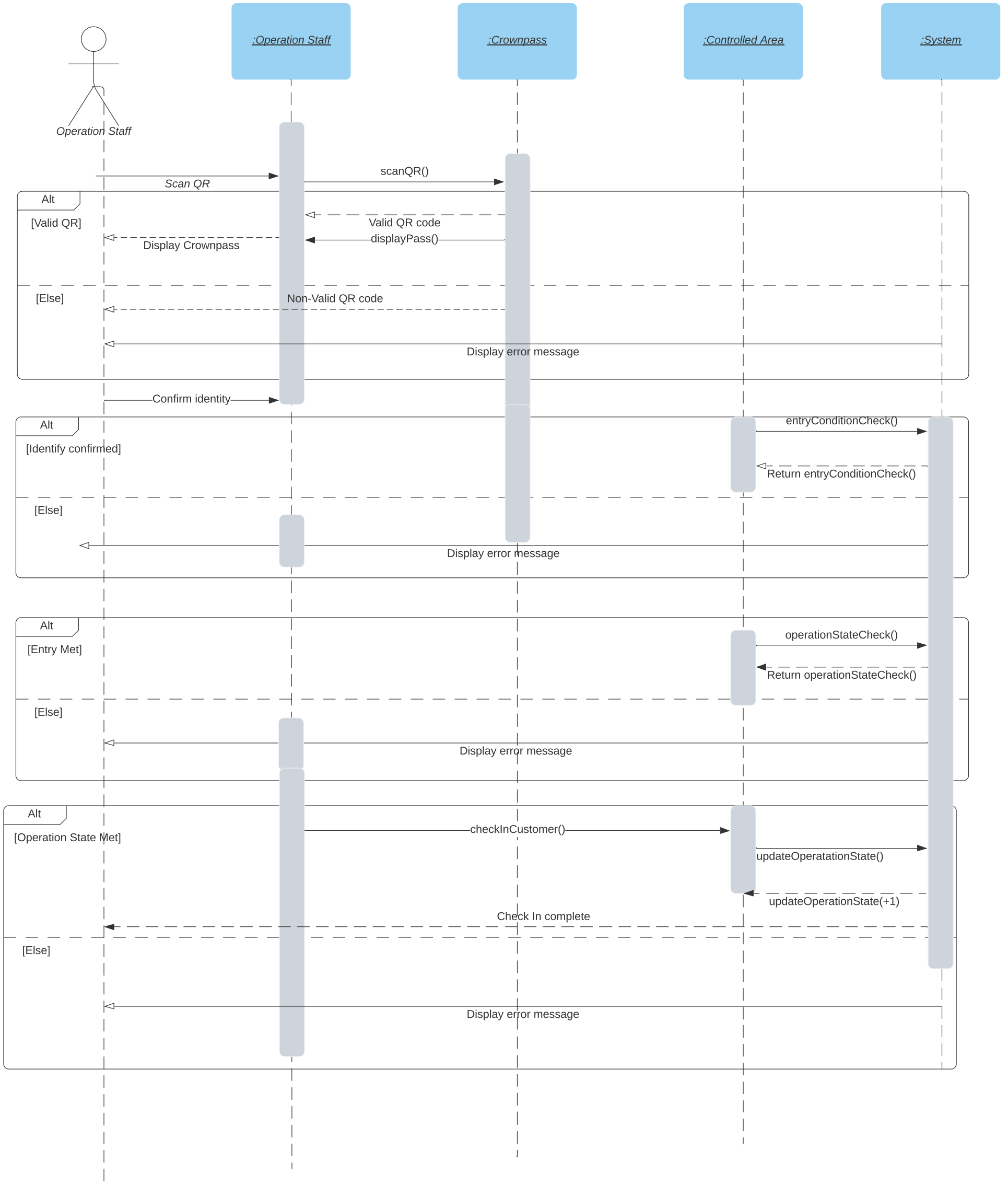
FR-SC-01 Check-in Customer

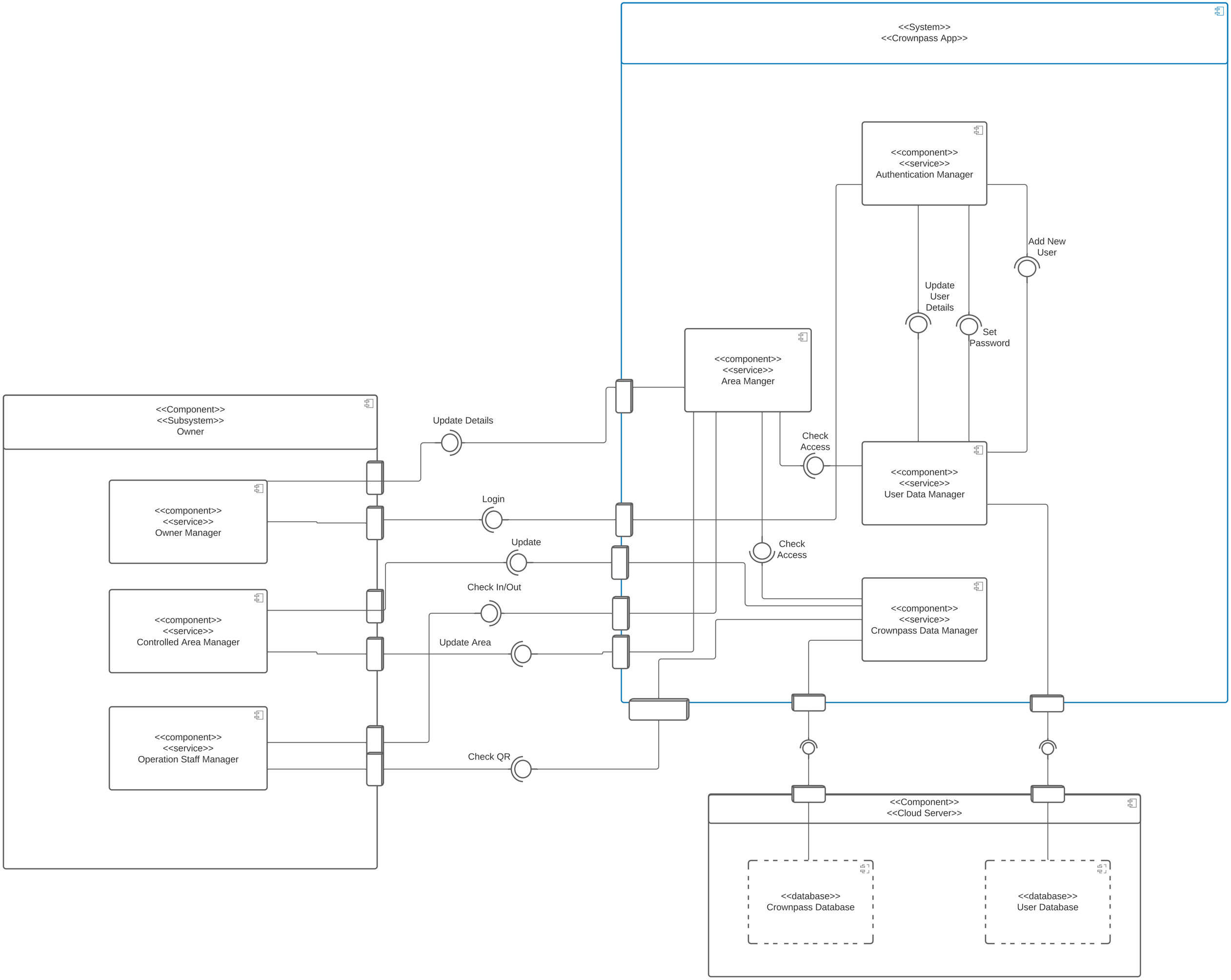


OWNER Class


Owner
+ ownerID : ID
+ areaIdentifier : string
-displayAreaID()
-createStaff()
-viewOperationState()
-viewAreaData()
-holderRedAlert()
-registerArea()
-manualUpdateArea()
-editEntryCondition()
User
-dateOfBirth : string
-gender: enum
-name : string
-email: string
-phoneNumber: string
-address: string
- register()
- login()
- verifyReg() : boolean
-editAccount()
Crownpass
+crownpassID : ID
+photo : PNG
+codeQR : int
+passState : string
-movementTrace : string
-vaccinationState: string
-areaExitTime : DateTime
-displayPass()
-getMovementTrace()
-logMovementTrace()
-checkRequiredInfo()
-getPassState()
-updatePassState()
-getVaccinationState()
-updateVaccinationState()
-updateExitTime()
-passStateChangeNotification ()
Operation Staff
+operationStaffID: ID
-checkInCustomer()
-checkOutCustomer()
-scanQR()
Controlled Area
- nameArea : string
- addressArea : string
-typeArea: string
-capacityArea : int
-contactNumber : string
+areaID : ID
-operationStateNum : int
-entryCondition : enum
-closeArea()
-disableCheckIn()
-evacuateArea()
-resetArea()
-areaStateRedAlert()
-updateArea()
-getAreaData()
-entryConditionCheck()
-getOperationState()
-operationStateCheck()
-updateOperationState()
-crownpassIDCheck()
<<emun>>
Entry Condition
Green
Light Blue
Dark Blue
0..*
1
0..*
1..*
1..*
0..*
1

FR-SC-01 - Check-In Customer




<<System>>
<<Crownpass App>>
<<component>>
<<service>>
Authentication Manager
Add New
User
Update
User
Details
Set
Password
<<component>>
<<service>>
Area Manger
Check
Access
<<component>>
<<service>>
User Data Manager
<<Component>>
<<subsystem>>
Owner
Update Details
Login
Update
Check In/Out
Update Area
Check QR
Check
Access
<<component>>
<<service>>
Owner Manager
<<component>>
<<service>>
Controlled Area Manager
<<component>>
<<service>>
Operation Staff Manager
<<component>>
<<service>>
Crownpass Data Manager
<<Component>>
<<Cloud Server>>
<<database>>
Crownpass Database
<<database>>
User Database

Unit Test Plan **CLASS: OWNER** **STUDENT NUMBER 18002538**

Test Case	Method and Parameters	Expected Output
Create staff account successfully	createStaff(name)	Staff ID
Create staff account unsuccessful	createStaff(name, surname, staff ID, gender)	Error message
Display Area ID	displayAreaID(area name)	Display the unique areaID of the area name inserted.
Display Area ID unsuccessful	displayAreaID(areaAddress)	Error message: Could not find area information based on that input.
Request to see Operation state	viewOperationState(areaID)	Display the Operation state of the area, this is capacity of area minus operation state number found in Controlled Area.
Request to see Operation state unsuccessful	viewOperationState(areaAddress)	Error message: Can not find Operation state
View Area Data	viewAreaData(areaID)	Display the area information matching the areaID
Unable to view area data	viewAreaData(crownpassID)	Error message: Could not find area information based on that input
Register an area	registerArea(name, address, type, capacity, contact number)	A new Controlled Area has been successfully created with all the correct information.
Unsuccessfully register an area	registerArea(name, address, capacity)	Error message: Required fields to create Controlled Area have not been provided.
Manually update area	manualUpdateArea(areafield)	Area fields should be updated occurring to new data
Unable to update area	manualUpdateArea(ownerID)	Error message: This was not a valid input for area fields.

System Test Plan **Student 18002538**

Description: Check-in Customer (FR-OC-07)

1) Use Case: Check In Customer

Scenario : Customer Successfully Checked in

Operation Staff	System
1.Begin by scanning QR code	2. Take QR code to find Crownpass.
	3. Display Crownpass information found.
4.Confirm likeliness of Crownpass holder.	
	5. Likeliness confirmed, check entry condition.
	6. Check operation state.
8. Allow customer to proceed into venue.	7. Display check in message to staff demonstrating check in acceptance, and update operation state.

Test Data:	**Test Process:**

Input:
• Scan QR: QR code.
• Approve likeliness of Crownpass holder.
Stored data:
• Customer
  ○ QR code
• System
  ○ Entry Condition
  ○ Operation State Number
  ○ Capacity Area
  ○ Crownpass holder information
  ▪ Photo
  ▪ CodeQR
  ▪ Vaccination state
  ▪ Pass State
Output: Successful Check in message
	1. Begin check-in process by scanning QR code.
	Input: Scan QR
	2. Validate QR code to display Crownpass holder data.
	3. Crownpass exists in system, display Crownpass photo information.
	a. Expected output: Crownpass holder photo.
	b. Check: if the output is the relevant Crownpass holder photo.
	4. Confirm likeliness of Crownpass holder.
	Input: Confirm likeliness.
	5. Check entry condition.
	6.Check Operation State
	7. Check in Crownpass holder
	a. Expected output: Message to allow holder to enter.
	8. Customer enters

2) Scenario: QR does not match any Crownpass.

Operation Staff	System
1.Begin by scanning QR code	2. Take QR code to find Crownpass.
	3. Return Operational Staff to scanning page.

Test Data:	**Test Process:**

Input:
• Scan QR: QR code.
Stored data:
• Customer
  ○ QR code
• System
  ○ Crownpass holder information
  ▪
Output: Return staff to scanner interface display.
	1. Begin check-in process by scanning QR code.
	Input: Scan QR
	2. Validate QR code to display Crownpass holder data.
	3. Return to scanner.
	a. Expected output: No check in
	b. Check: Return to scanner

3) Scenario: Customer is not the Crownpass holder.

Operation Staff	System
1.Begin by scanning QR code	2. Take QR code to find Crownpass.
	3. Display Crownpass information found.
4.Not likeliness of Crownpass holder.	
	5. Entry denied

Test Data:	**Test Process:**

Input:
• Scan QR: QR code.
• Unapproved likeliness of Crownpass holder.
Stored data:
• Customer
  ○ QR code
• System
  ○ Crownpass holder information
  ▪ Photo
	1. Begin check-in process by scanning QR code.
	Input: Scan QR
	2. Validate QR code to display Crownpass holder data.
	3. Crownpass exists in system, display Crownpass photo information.
	a. Expected output: Crownpass holder photo.
	b. Check: if the output is the relevant Crownpass holder photo.

▪ CodeQR Output: Unsuccessful check in	4. Confirm likeliness of Crownpass holder. Input: Not likeliness of holder on record 5. Display denied entry message a. Expected output: Message denying holder to enter. b. Check: if output matched the expected.

4) Scenario: Entry Condition not Met

Operation Staff	System
1.Begin by scanning QR code	2. Take QR code to find Crownpass.
	3. If found, display Crownpass information.
4.Confirm likeliness of Crownpass holder.	
	5. Check entry condition.
	6. Display denied message.

Test Data:	**Test Process:**
Input: • Scan QR: QR code. • Approve likeliness of Crownpass holder. Stored data: • Customer o QR code • System o Entry Condition o Crownpass holder information ▪ Photo ▪ CodeQR ▪ Vaccination state ▪ Pass State Output: Unsuccessful Check in message	1. Begin check-in process by scanning QR code. Input: Scan QR 2. Validate QR code to display Crownpass holder data. 3. Crownpass exists in system, display Crownpass photo information. a. Expected output: Crownpass holder photo. b. Check: if the output is the relevant Crownpass holder photo. 4. Confirm likeliness of Crownpass holder. Input: Confirm likeliness. 5. Check entry condition. 6. Displayed Denied Entry a. Expected output: Message to deny holder to enter. b. Check: if output matched the expected.

5) Scenario: Operation State not Met

Operation Staff	System
1.Begin by scanning QR code	2. Take QR code to find Crownpass.
	3. Display Crownpass information.
4.Confirm likeliness of Crownpass holder.	
	5. Likeliness confirmed, check entry condition.
	6. Check operation state.
	7. Display denied message.

Test Data:	**Test Process:**

Input:
• Scan QR: QR code.
• Approve likeliness of Crownpass holder.
Stored data:
• Customer
  ○ QR code
• System
  ○ Entry Condition
  ○ Operation State Number
  ○ Capacity Area
  ○ Crownpass holder information
  ▪ Photo
  ▪ CodeQR
  ▪ Vaccination state
  ▪ Pass State
Output: Unsuccessful Check in message
	1. Begin check-in process by scanning QR code.
	Input: Scan QR
	2. Validate QR code to display Crownpass holder data.
	3. Crownpass exists in system, display Crownpass photo information.
	a. Expected output: Crownpass holder photo.
	b. Check: if the output is the relevant Crownpass holder photo.
	4. Confirm likeliness of Crownpass holder.
	Input: Confirm likeliness.
	5. Check entry condition.
	6.Check Operation State
	7. Displayed Denied Entry
	a. Expected output: Message to deny holder to enter.
	b. Check: if output matched the expected.