**Subsystem B – System test Plan(3b)**

Use Case: Check – in (Area Operation Staff)

Diagram

Description automatically generated



Scenario 1: successful check-in (Crownpass holder verified and area capacity not reached)

|  |  |  |
| --- | --- | --- |
| **Crownpass Holder** | **Operation Staff** | **System** |
| 1. Show Crownpass ID | 2. Check ID photo (holder verified) |  |
|  | 3. Check Holder infection state (default Green) |  |
|  | 4. Scan Crownpass ID |  |
|  |  | 5. Find data associated with barcode (successful) |
|  |  | 6. Check area capacity (not at limit) |
|  |  | 7. Add Holder ID to a list of people currently in area |
|  |  | 8. Save Holder ID for traceback |
|  |  | 9. Increase area capacity (+1) |
|  |  | 10. Send confirmation that user has been checked in |
|  | 11. View notification |  |

Test Data

* Input
* Manual check by Operation staff: ID photo, infection state (provided by Crownpass Holder app)
* Function input: crownpass ID
* Stored Info
* On Operation Staff Phone:
* Crownpass ID: no data stored
* On Cloud:
* Crownpass ID: data stored for traceback as well as in area database (holders\_currently\_in\_area)
* Output:
* Check-in Confirmation (on Operation staff mobile that check in has been successful)

Test Process

1. Test context:

a. Crownpass Holder: logged into their app, showing a Crownpass ID on their phone

b. Operation Staff: logged into their mobile app ready to scan the ID

2. Crownpass Holder shows the Crownpass ID to Operation Staff

a. Check if the ID photo matches the Crownpass Holder

b. Manual check successful (photo matches)

3. Operation Staff checks the infection state on Crownpass

a. Operation staff looks for default “Green” infection state

b. expected output: Infection state = “Green” (valid)

4. Operation staff scans the Crownpass ID

5. User Database is queried to find matching credentials associated with the ID

a) Check if ID is valid

b) expected output: ID = valid

6. System queries the Area Database to check whether the capacity is at limit

a. Check if capacity at limit

b. expected output: capacity not at limit

7. Crownpass ID is added to Area Database including Entry time (time of Crownpass ID being scanned for check in)

8. A request is sent to the Area Database to increase the capacity limit (+1)

9. Confirmation is sent to the Operation Staff App (“Successful check-in)

Scenario 2: unsuccessful check in (crownpass holder ID photo does not match)

|  |  |  |
| --- | --- | --- |
| **Crownpass Holder** | **Operation Staff** | **System** |
| 1. Show Crownpass ID | 2. Check ID photo (holder not verified) |  |
|  | 3. Ask crownpass holder to leave the area |  |

Test Data

* Input
* Manual check by Operation staff: ID photo, infection state (provided by Crownpass Holder app)
* Function input: none
* Stored Info
* On Operation Staff Phone:
* Crownpass ID: no data stored (crownpass ID not scanned)
* On Cloud:
* Crownpass ID: none (crownpass ID not scanned)
* Output:
* None (crownpass ID was not scanned as manual verification failed)

Test Process

1. Test context:

a. Crownpass Holder: logged into their app, showing a Crownpass ID on their phone

b. Operation Staff: logged into their mobile app ready to scan the ID

2. Crownpass Holder shows the Crownpass ID to Operation Staff

a. Check if the ID photo matches the Crownpass Holder

b. Manual check unsuccessful (photo does not match)

3. Operation staff tells the Crownpass Holder that their photo ID does not match their looks and that they are not allowed to be let in without a valid Crownpass ID

Scenario 3: unsuccessful check in (crownpass holder infection state does not match)

|  |  |  |
| --- | --- | --- |
| **Crownpass Holder** | **Operation Staff** | **System** |
| 1. Show Crownpass ID | 2. Check ID photo (holder verified) |  |
|  | 3. Check infection state (not Green) |  |
|  | 4. Ask crownpass holder to leave the area |  |

Test Data

* Input
* Manual check by Operation staff: ID photo, infection state (provided by Crownpass Holder app)
* Function input: none
* Stored Info
* On Operation Staff Phone:
* Crownpass ID: no data stored (crownpass ID not scanned)
* On Cloud:
* Crownpass ID: none (crownpass ID not scanned)
* Output:
* None (crownpass ID was not scanned as manual verification failed)

Test Process

1. Test context:

a. Crownpass Holder: logged into their app, showing a Crownpass ID on their phone

b. Operation Staff: logged into their mobile app ready to scan the ID

2. Crownpass Holder shows the Crownpass ID to Operation Staff

a. Check if the ID photo matches the Crownpass Holder

b. Manual check successful (photo matches)

3. Operation Staff checks the infection state on Crownpass

a. Operation staff looks for default “Green” infection state

b. Infection state != Green

4. Operation Staff tells the Crownpass Holder that their infection state does not match the entry condition

Scenario 4: unsuccessful check in (area capacity limit reached)

|  |  |  |
| --- | --- | --- |
| **Crownpass Holder** | **Operation Staff** | **System** |
| 1. Show Crownpass ID | 2. Check ID photo (holder verified) |  |
|  | 3. Check Holder infection state (default Green) |  |
|  | 4. Scan Crownpass ID |  |
|  |  | 5. Find data associated with barcode (successful) |
|  |  | 6. Check area capacity (at limit) |
|  |  | 7. Send an error message to Operation Staff mobile (“Capacity Limit Reached. Unable to check-in.”) |
|  | 8. View Notification Message |  |
|  | 9. Ask Crownpass Holder to leave the Area |  |

Test Data

* Input
* Manual check by Operation staff: ID photo, infection state (provided by Crownpass Holder app)
* Function input: crownpass ID
* Stored Info
* On Operation Staff Phone:
* Crownpass ID: no data stored
* On Cloud:
* Crownpass ID: data stored for traceback as well as in area database (holders\_currently\_in\_area)
* Output:
* Check-in Error message (“Capacity Limit has been reached”)

Test Process

1. Test context:

a. Crownpass Holder: logged into their app, showing a Crownpass ID on their phone

b. Operation Staff: logged into their mobile app ready to scan the ID

2. Crownpass Holder shows the Crownpass ID to Operation Staff

a. Check if the ID photo matches the Crownpass Holder

b. Manual check successful (photo matches)

3. Operation Staff checks the infection state on Crownpass

a. Operation staff looks for default “Green” infection state

b. expected output: Infection state = “Green” (valid)

4. Operation staff scans the Crownpass ID

5. User Database is queried to find matching credentials associated with the ID

a) Check if ID is valid

b) expected output: ID = valid

6. System queries the Area Database to check whether the capacity is at limit

a. Check if capacity at limit

b. expected output: capacity not at limit

c. actual output: capacity limit reached

7. System sends an error message to the Operation Staff that capacity limit has been reached and that check in has been unsuccessful