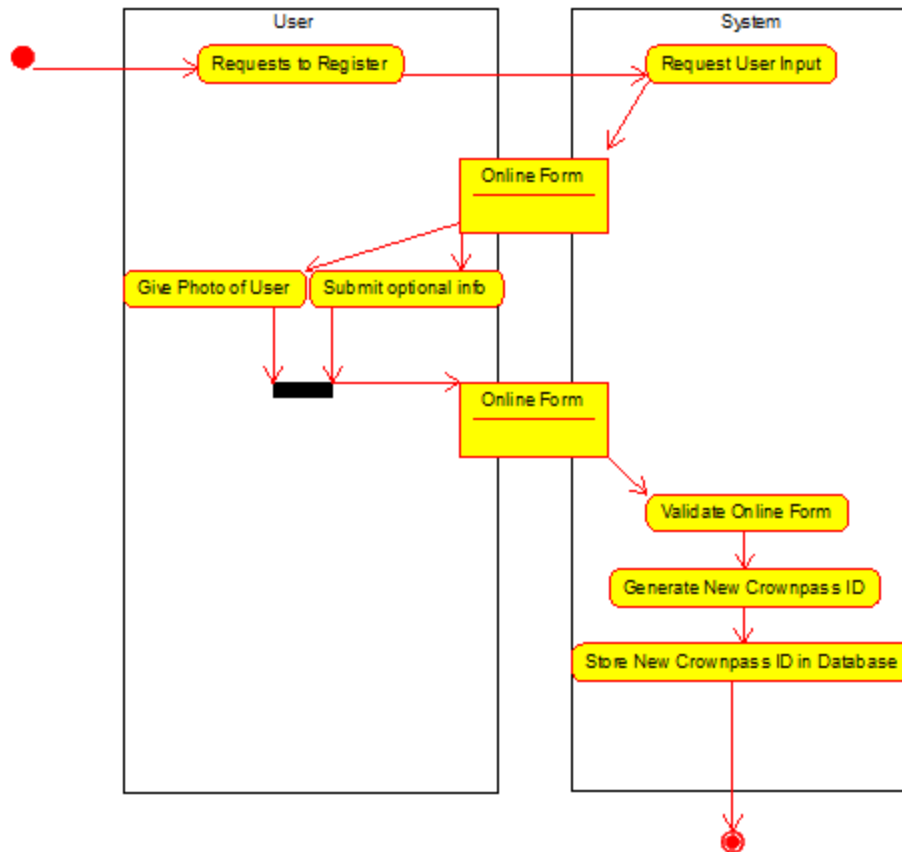
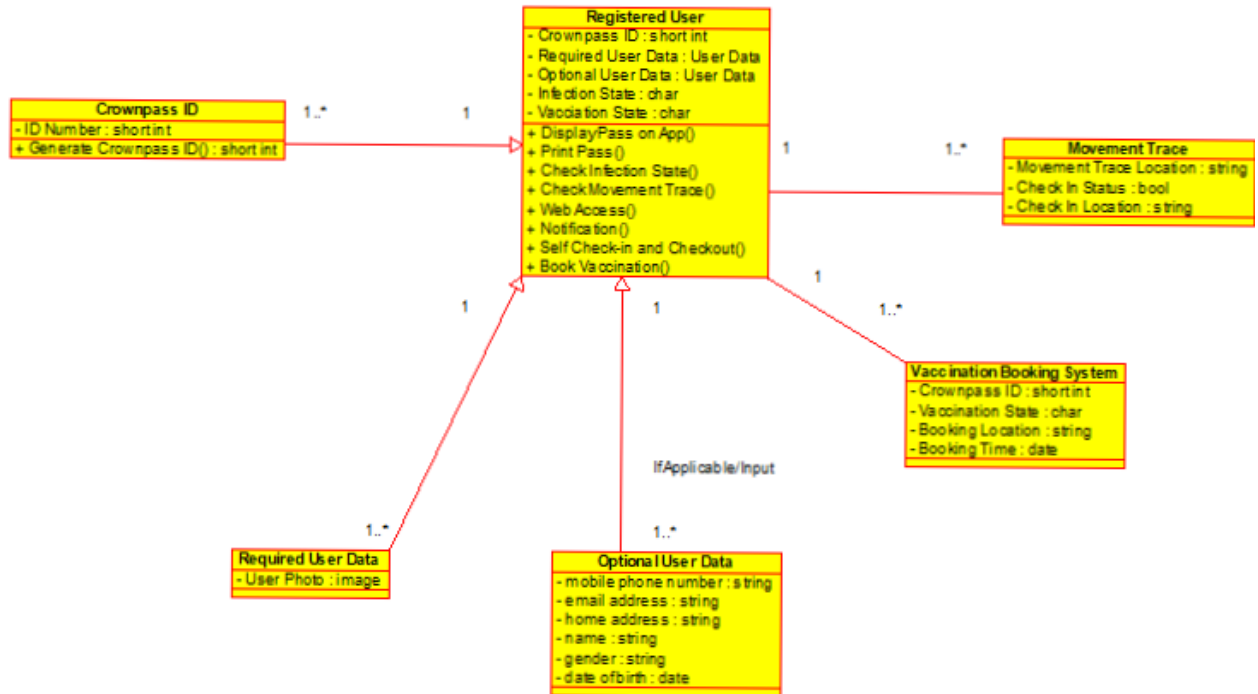


Activity Diagram

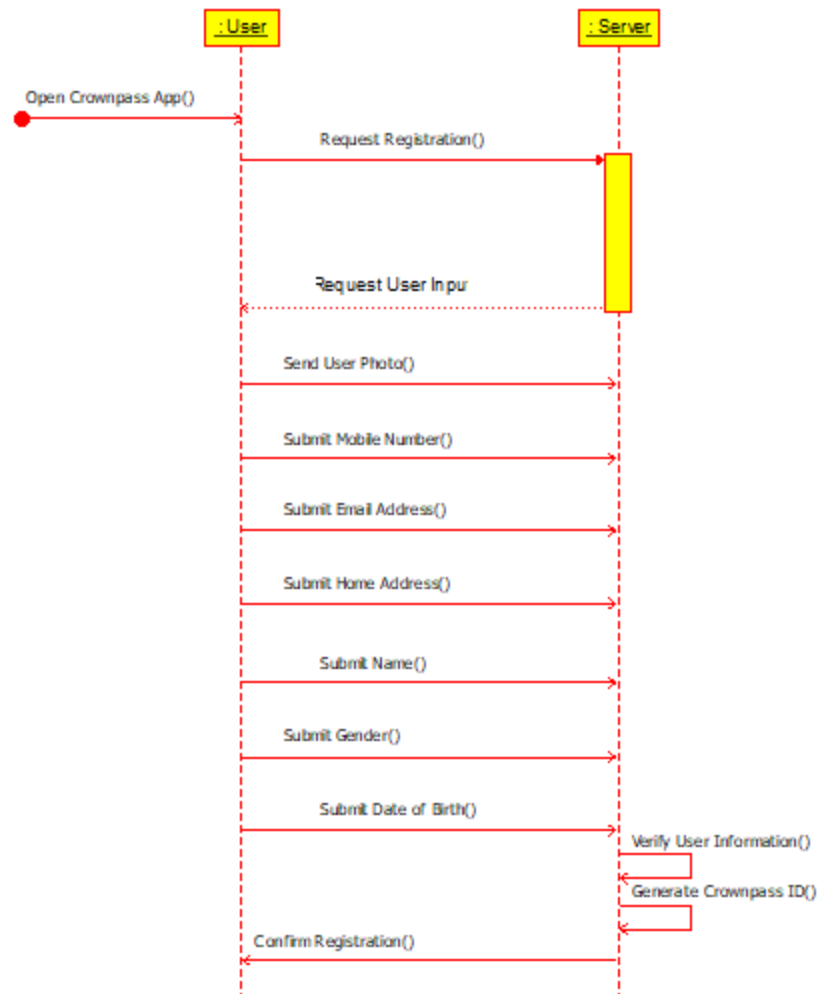
eral public users can register to the Crownpass system to obtain: Crownpas



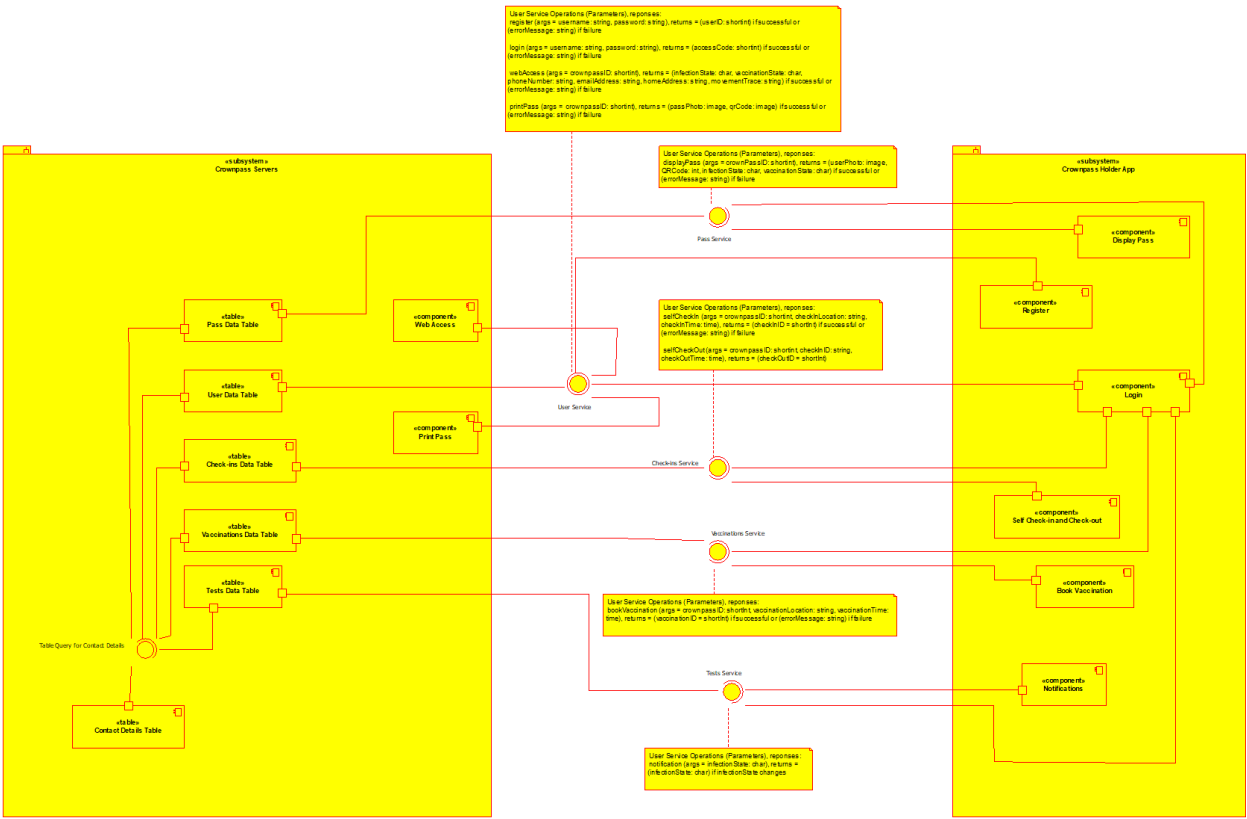
Class Diagram



Sequence Diagram



Component Diagram



Unit Test Plan - Pass Service

Class to test: Pass Service

| Test Case | Method and Parameters | Expected Output |
|---|-----------------------|--|
| Display Pass Successfully | displayPass(1) | userPhoto, QRCode, infetionState, vaccinationState Of User where CrownpassID = 1 |
| Display Pass Unsuccessfully via Incorrect Credentials | displayPass(2) | userPhoto, QRCode, infetionState, vaccinationState Of User where CrownpassID = 2 |
| Display Pass Unsuccessfully via Non-existent Credentials | displayPass(-1) | errorMessage |

System Test Plan - Registration

Use Case: Registration

Scenario: Successfully register into the system to become a Crownpass Holder

| Customer | System |
|--|--|
| 1. Open Crownpass Holder app | |
| 2. Request to register to the service (press the registration button) | 3. Request user input |
| | 4. Send registration form |
| 5. Submit username and password, required user info (photo of user) and any optional user info (mobile phone number, email address, home address, name, gender, date of birth) | 6. Receive information from online form |
| | 7. Authenticate user info |
| | 8. Generate new Crownpass ID |
| | 9. Populate data tables with new user information and form associations. |
| 11. Receive confirmation of registration | 10. Send confirmation message to user |

Test Data

Input

- Username
- Password
- Required user info: Photo of user
- Optional user info: Mobile phone number, email address, home address, name, gender, date of birth

Stored Data

- On mobile device: None
- On cloud/server: Lists of already registered users (not empty), details of registered users (not empty), data associated with registered Crownpass holders

Output

- User ID and a confirmation of success
- Or an error message of failure

Test Process

1. Set up test context
 - a. Mobile device with Crownpass Holder app installed
 - b. Crownpass server with databases
2. Open Crownpass Holder app
3. Request to register to the service (press the registration button)
4. Request user input
5. Send registration form
 - a. Expected output: Online form sent
 - b. Check: If user received online form. If timeout (such as with a dropped connection, display error code.
6. Submit username and password, required user info (photo of user) and any optional user info (mobile phone number, email address, home address, name, gender, date of birth)
 - a. Expected output: Data accepted for processing
 - b. Check: If any data is incorrectly formatted, deny submission request.
7. Receive information from online form
8. Authenticate user info
 - a. Expected output: Data accepted and viable for new Crownpass Holder
 - b. Check: If details that must be unique (such as usernames, photos of the user, or email addresses) match already existing users. If so, deny registration to prevent duplicate users.
9. Generate new Crownpass ID
10. Populate data tables with new user information and form associations.
11. Send confirmation message to user
12. Receive confirmation of registration
 - a. Expected output: Confirmation displayed on device within app.