**Level 1**

1. B
2. A

**Level 2**

<https://www.figma.com/file/c2no3vQFWRAH42iXVbjrdE/Castle-of-Mysteries?type=whiteboard&node-id=0%3A1&t=OTLruHRDp8pjbM7B-1>

**Level 3**

2.

A.

| **Use Case ID** | UC01 |
| --- | --- |
| **Use Case Name** | User logging in |
| **Use Case Description** | A registered user logs into the application |
| **Actor** | An application user |
| **Precondition** | User is already registered |
| **Postcondition** | User successfully logs into the application |
| **Basic Flow** | 1. User enters correct username to the username field 2. User enters correct password to the password field 3. User sign in to the application |
| **Extensions** | 1a. User enters incorrect username and system displays “Username or Password is invalid” message when try to log in  2a. User enters incorrect password and system displays “Username or Password is invalid” message when try to log in |

| **Use Case ID** | UC02 |
| --- | --- |
| **Use Case Name** | Forgot Password |
| **Use Case Description** | A user tries to recover password using “Forgot Password” option |
| **Actor** | An application user |
| **Precondition** | User is already registered and details are already exist in the system database |
| **Postcondition** | User successfully resets password |
| **Basic Flow** | 1. User selects “Forgot Password” option in the login page 2. User enters email address and proceed 3. Email verification sent to the user’s email address 4. User proceeds to password reset page as instructed in the email 5. New password is updated in the database |
| **Extensions** | 2a. User enters an incorrect email which cannot be found in the database and the system displays “User is not registered, Please register!”  4a. User enters an invalid password (without adhering to the password standards) and system displays suitable Notification to follow the password standards  4b. User has not recovered the password during the allocated time( A day) after receiving the email, The system displays a message “Session has expired” when user tries to reset the password. |

| **Use Case ID** | UC03 |
| --- | --- |
| **Use Case Name** | Commenting |
| **Use Case Description** | A user adds a comment to pre shared picture |
| **Actor** | An application user |
| **Precondition** | User is already registered and pre shared image is available in the user’s home feed |
| **Postcondition** | User successfully adds a comment to the shared image |
| **Basic Flow** | 1. User finds the image from the home feed which needs to be commented 2. User enters the comment in the comment field and click “comment” and system validates the comment (min 2 and max 200 characters, Cannot contain swearing words) 3. Comment is successfully added to the image |
| **Extensions** | 2a. Comment length is 1 character or less system displays “Minimum comment length should be 2 characters”  2b. Comment length is more than 150 characters system displays “Maximum allowed characters are 150”  2c. Commenting with swearing words will prompt “Please comment with appropriate language” |

| **Use Case ID** | UC04 |
| --- | --- |
| **Use Case Name** | Adding a friend using phone contacts |
| **Use Case Description** | A user adds a friend using the mobile phone contact list |
| **Actor** | An application user |
| **Precondition** | User is already registered and granted access to the phone contacts  A friend is a registered user with the same phone number in the user’s contact list |
| **Postcondition** | User successfully adds a friend using mobile phone contact list |
| **Basic Flow** | 1. User select “find friends in your contact list” 2. Mobile contact list opens and visible to the user 3. User selects a contact and system validated of the selected contact is using registered to the same system 4. Selected contact is successfully added as a friend |
| **Extensions** | 3a. Selected contact is not registered in the system and it displays “User is not registered”  3b. Selected contact does not have a mobile phone number and system displays “No mobile number is found”  3c. Selected contact is registered and already exists in the friend list, system displays “User already exists in the friend list”  3d. Selected contact does have more than one mobile number, user is asked to select a default mobile number to proceed |

| **Use Case ID** | UC05 |
| --- | --- |
| **Use Case Name** | Sharing a cat picture |
| **Use Case Description** | A user shares a cat picture from the mobile phone gallery |
| **Actor** | An application user |
| **Precondition** | User is already registered and granted access to the phone gallery  User contains a cat picture in the mobile phone gallery |
| **Postcondition** | User successfully share the cat image from the mobile phone gallery |
| **Basic Flow** | 1. User select share image from the home page and shows available images from the gallery 2. User selects the cat image from the gallery which is less than 3.5MB inclusive in the format of “JPG” or “PNG” and system validated the image 3. Image is successfully shared in the home page |
| **Extensions** | 2a. Selected image contains other than cat leads to display an error saying “Please select a cat image”  2b. Selected cat image is more than 3.5MB and system displays “maximum file size is 3.5MB”  2c. Selected cat image is not in the predefined formats leads to display error showing “allowed file formats are JPG and PNG” |

B. State transition diagram for Resetting password using forgot password option

<https://www.figma.com/file/inkhWHmObYTY0Cs9DuwFBL/Resetting-password-using-%22Forgot-Username%22?type=whiteboard&node-id=0%3A1&t=eCPS3Iprsvhq5meL-1>

Decision table for “Adding a Friend using Phone contacts”

| Condition/Tests | T1 | T2 | T3 | T4 | T5 | T6 | T7 | T8 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Friend is registered | T | T | T | T | T | N | N | N |
| Contact information does have Mobile number | T | T | T | T | N | T | T | N |
| Selected contact already exists in Friend list | N | N | T | N | - | - | - | - |
| Selected contact’s default number is confirmed if more than one phone number is exists | T | N | T | N | - | T | N | - |
| Friend added | T | F | F | F | F | F | F | F |