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| **Use Case No:** | UC01 |
| **Use Case Name:** | Download and Login |
| **Pre-Conditions** | User mobile accounts have been setup and the login details emailed to them |
| **User Story:** | I want to download the app from the mobile store, and login to view my portfolio details. |
| **MAIN SUCCESS SCENARIO:**   1. The user selects the app for download from the Play store 2. The user opens the app and enters login information | |
| **FAILED SCENARIO: UNSUCCESSFUL LOGIN**   * 1. The user is shown error message to show login information is not valid   2. The user can retry 3 times then system locks user out and displays relevant error message | |
| **FAILED SCENARIO: SERVER UNAVAILABLE / CONNECTIVITY**   * 1. The user is shown error message to show Unable to Communicate with Server | |

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| **Req ID** | **Functional Requirement** |
| FR 1.1 | The User must be able to search for “Application” in the mobile store and select to download the app. |
| FR 1.2 | After download is complete, the user must able to select the Applications icon on the app menu.  Home screen icon to display with the Application name wrapped: Special Application  User must **open** the app, and be directed to the **Splash Screen** containing <Application> logo. The splash screen to show for 2 seconds before transitioning to the Login page.  If the user opens the app, we should check for the version and enforce upgrade if necessary. We will support current version, and the one before (n-1) |
| FR 1.3 | The user must be able to enter Username and Password and submit with the following three fields:   * **Username** (text field with hint text) – no restriction on length. Uppercase and lower case is validated. * **Password** (text field with hint text) – 8 Characters, must be a at least 3 out of 4 of – Upper/Lower/Numeric/Special characters - Standard MS Complex passwords which cannot be a permutation of the username * **Login**   Username entered to **display in text**.(exactly as entered) – truncated  Password to be **masked**. User cannot unmask.  Login Button is displayed as inactive (greyed out) while fields are not completed.  Login Button to only be “active” once Username and Login fields have been populated (minimum 1 character per field).  Keyboard selection of “done” button must trigger login automatically if user is in the **password field**.  Once user has clicked on “login” both username and password displays to remain.  Once user has been logged in, and the app is minimised, the display name for any page on the assessment must be same as that of the page the user is currently on. E.g. if the user has logged in and is in the Assessment, the display name must be Assessment.  Once logged in, the user’s login token is stored. Don’t remove the ability to authenticate offline. |
| FR 1.4 | If user tries to login with incorrect **password, username, or combanation**, show “Login Failed. Please ensure you are using the correct username and password.” Option is OK  OK returns user to the Login page with previously entered username and password **removed**. |
| FR 1.6 | The user must be shown the following error message **if there is no connectivity**:  “Failed.”  Option is OK that returns user to the Login page with previously entered username and password still there. |

1. Consider the above business requirement’s specification, what question or comments based on the quality of the requirements would you have for the Business Analyst, if any?

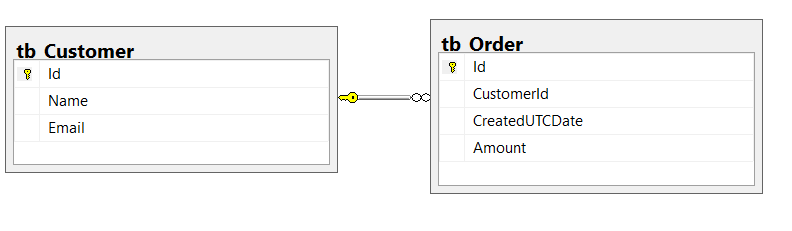
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| * Is this app responsive to all different type of mobile devices and OS’s? * Is password included in the login details email? * Is this app available on istore? If yes, which countries? * Will there be a forget password option for customers who forgot their password? * If the account is locked after 3 unsuccessful login attempts, how long the user account will be locked and how does the app communicates to the customer? * Will the “Failed” message appears on the app if mobile device has no internet connection? * What type of internet connection (i.e 2G, 3G and etc.) phone required to be able to run the app? * Which smartphone devices supports this app? * How long the login details are valid? Will they expire after xx of time since email was sent with login details? * What is the name which customers are require to search for in the app store to find the app? * What happens if the connection drops when customer is on splash screen? Does customer get error message before getting to login page? |

1. What would you test for this project? (e.g.: 1. incorrect password 2. incorrect password validation)

**Please note that what I listed below are the high level test scenarios. From testing process point of view, these high level test scenarios will help test analysts to derive the detailed test cases which get used in test execution.**

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| * Search for app in the app/mobile store * Download the app (this scenario must be executed on the various smartphone devices to check if the app can be downloaded on all the smartphones). * Visibility (icon) and selection of the app on the app menu (this must be executed on various smartphone devices) * Successful login * Unsuccessful login * Account locking after 3 unsuccessful attempts * Successful login with various internet connection types * Unsuccessful login with various internet connection types * Login attempt with no internet connection * Login attempt when the server is down or app is not connected to the server * Successful logout * Test the response time of splash page and all other pages * Test the masking of the login details * Login button activation and deactivation based on the login and password details capture. * Check the current version of app and force the upgrade if the version is not the latest * Attempts login by clicking on “done” button on keypad (customer is in the password field) * Navigates to different pages on the app and test the display of the page name * Test the storage of login token * Test the whipping off of the login details on unsuccessful login attempts * Login attempts with correct login details after the user account is unlocked |

1. Which of the following defines the expected results of a test? **Test results**
2. Test case specification
3. Test design specification
4. Test procedure specification
5. **Test results**
6. Which of the following is TRUE? **b**
7. Confirmation testing is testing fixes to a set of defects and Regression testing is testing to establish whether any defects have been introduced as a result of changes. **TRUE**
8. Confirmation testing is testing to establish whether any defects have been introduced as a result of changes and Regression testing is testing fixes to a set of defects.
9. Confirmation testing and Regression testing are both testing to establish whether any defects have been introduced as a result of changes.
10. Confirmation testing and Regression testing are both testing fixes to a set of defects.
11. Consider the following Database Tables



* 1. Write a SQL query to return a list of customers that have orders

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| Query 1: Returns list of customers that have orders with selected fields from both tables  Select distinct name  from customer c  inner join order b on b.id=c.id  Query 2: Returns list of customers that have orders with selected fields from both tables.  Select  c.name,  c.email,  o.createdUTDate,  o.amount  from customer c  Join order o  on c.id = o.customerid  Query 2: Returns list of customers that have orders with all the fields from both tables.  Select c.\*,o.\*  from customer c  Join order o  on c.id = o.customerid |