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| Use Case Textual Description | |
| UC-ID | 1.1 |
| Name | Register Account |
| Description | To allow user to register new account after he download the application for the first time |
| Actor(s) | User |
| Precondition | A user has installed the application and wish to create a new account |
| Main Scenario | Step 1: System prints out a sign-up form with fields to ask for user email address and desired password  Step 2: User submits form and system does validation  Step 2(alternate): If data is invalid, an error message will be displayed, and user is sent back to form for re-entry of right credentials  Step 3: User password will be hashed  Step 4: System updates the SQL Database  Step 5: User is redirected to log in screen |

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| Use Case Textual Description | |
| UC-ID | 1.1.1 |
| Name | Register Unique Identifier |
| Description | To allow system to register a unique identifier of user for log in |
| Actor(s) | User |
| Precondition | The user has registered an account and system will need to take in user’s unique identifier (MAC Address) |
| Main Scenario | Step 1: After user has created account, system will automatically capture the MAC Address of the user’s computer. |

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| Use Case Textual Description | |
| UC-ID | 1.2 |
| Name | Account Recovery |
| Description | To allow user to recover their lost or forgotten account |
| Actor(s) | User |
| Precondition | The user has a registered account and forgotten password |
| Main Scenario | Step 1: User selects account recovery on Log in screen  Step 2: System prints out a form to prompt for User account email  Step 3: User fills up the email and system do validation  Step 3(alternate): If email is invalid, an error message will be displayed, and user is sent back to form for re-entry of right credentials  Step 4: System will generate new password  Step 5: Email with new generated password will be sent to User email address. |

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| Use Case Textual Description | |
| UC-ID | 1.3 |
| Name | Login |
| Description | To allow User to log in to the system |
| Actor(s) | User |
| Precondition | The user has a registered account |
| Main Scenario | Step 1: User enters their log in credentials in the log in screen  Step 2: System hash the User password and validates with SQL Database  Step 2(alternate): If log in credentials are wrong, an error message will display, and User will be prompt to enter credentials again  Step 2(alternate): If log in credentials is wrong for 3 times, system will be lock from User for 3 minutes **via U/C 1.3.1**  Step 3: System will display Main Menu  Step 4: User will enter choice from Main Menu |

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| Use Case Textual Description | |
| UC-ID | 1.3.1 |
| Name | System Lockout |
| Description | Lock User out after several failed log in attempts |
| Actor(s) | User |
| Precondition | The user has 3 failed log in attempts |
| Main Scenario | Step 1: System will lock the user out of the system for 3 minutes  Step 2: System will resume after 3 minutes. |

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| Use Case Textual Description | |
| UC-ID | 1.3.2 |
| Name | Update Unique Identifier |
| Description | To allow system to capture the missing identifier from user (MAC Address) |
| Actor(s) | User |
| Precondition | The user has created an account with his mobile and log in to his computer for the first time. |
| Main Scenario | Step 1: After user has logged in, the system will automatically capture the missing unique identifier and update in the database. |

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| Use Case Textual Description | |
| UC-ID | 1.4 |
| Name | Change Password |
| Description | To allow User to change their password |
| Actor(s) | User |
| Precondition | The user has a registered account and wish to update the current password |
| Main Scenario | Step 1: User enters username and password at Log in screen  Step 2: User selects change password at the main menu  Step 3: System displays a form for user to fill up the new password they desire  Step 4: User enters the new desired password and system do validation  Step 5: System will update the SQL Database with the new password |

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| Use Case Textual Description | |
| UC-ID | 1.5 |
| Name | Lock |
| Description | To allow user to lock their folders or files using system cryptography feature |
| Actor(s) | User |
| Precondition | The user has a registered account and has file that they want to lock |
| Main Scenario | Step 1: User selects Lock file option in the Main Menu.  Step 2: System displays a form to fill up which directory the User has the file  Step 3: User enters the directory and system validates  Step 3(alternate): If directory is invalid, an error message will display, and User will be redirected to form to fill up directory.  Step 3(alternate): If the file or folder in directory is already locked, an error message will display, and User will be redirected to form to fill up the correct directory  Step 4: The system locks the file of the User directory with cryptography feature via **via U/C 1.5.1** |

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| Use Case Textual Description | |
| UC-ID | 1.6 |
| Name | Unlock |
| Description | To allow user to unlock their folders or files using system cryptography feature |
| Actor(s) | User |
| Precondition | The user has a registered account and logged into the system |
| Main Scenario | Step 1: User selects Unlock file option in the Main Menu.  Step 2: System displays a form to fill up which directory the User has the file  Step 3: User enters the directory and system validates  Step 3(alternate): If directory is invalid, an error message will display, and User will be redirected to form to fill up directory.  Step 3(alternate): If the file or folder in directory is not locked, an error message will display, and User will be redirected to form to fill up the correct directory  Step 4: The system unlocks the file of the User directory with cryptography feature via **via U/C 1.6.1** |

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| Use Case Textual Description | |
| UC-ID | 1.7 |
| Name | View File |
| Description | To allow user to view the locked files in the system |
| Actor(s) | User |
| Precondition | The user has a registered account and logged into the system |
| Main Scenario | Step 1: User selects View File option in the Main Menu  Step 2: User selects a choice in the view file menu  Step 3: System will display a prompt to User to choose viewbyname option  Step 4(viewbyname): User enters a date from where he locked a file and system validates **via U/C 1.7.1**  Step 4(alternate): if the name the User entered does not contain any locked file, the system will display an error message and prompt the User to enter a valid name.  Step 5: When date/name is validated, system will retrieve the data and display the data of the file in its current status |

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| Use Case Textual Description | |
| UC-ID | 1.8 |
| Name | View History |
| Description | To allow user to view history of log in and file |
| Actor(s) | User |
| Precondition | The user has a registered account and logged into the system |
| Main Scenario | Step 1: User selects View History option in the Main Menu  Step 2: User selects a choice in the view history menu  Step 3: System will display a prompt to User to choose from viewfilehistory or viewloginhistory  Step 4(viewfilehistory): User enters a date from where he locked a file **via U/C 1.8.2**  Step 4(viewloginhistory): User enters a date from where he logged in **via U/C 1.8.1**  Step 5: System will retrieve the data and display the data to the User from the date User input consisting of past actions done by user regardless of current file status. |

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| Use Case Textual Description | |
| UC-ID | 1.9 |
| Name | Change Registered Mobile |
| Description | To allow user to change their registered mobile |
| Actor(s) | User |
| Precondition | The user has a registered account and lost or misplaced phone |
| Main Scenario | Step 1: User selects Change Registered Mobile at Main Menu  Step 2: System prompts user to confirm the change of registered mobile  Step 3: Once confirmed, the IMEI of the user mobile will be reset, and user will need to log in with new mobile to register the unique identifier. |

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| Use Case Textual Description | |
| UC-ID | 1.10 |
| Name | Logout |
| Description | To allow user to log out after they are done with their session |
| Actor(s) | User |
| Precondition | The user has a registered account and logged into the system |
| Main Scenario | Step 1: User selects log out at Main Menu  Step 2: System confirms log out with User by prompting a display  Step 3: Once confirmed, User is logged out |

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| Use Case Textual Description | |
| UC-ID | 2.1 |
| Name | Delete User |
| Description | To allow the administrator to delete users from database |
| Actor(s) | Administrator |
| Precondition | The administrator wishes to delete off unused accounts |
| Main Scenario | Step 1: Administrator selects delete user on Main Menu  Step 2: System prompts to enter username of the account that is to be deleted  Step 3: Administrator fills up form and system validate  Step 3(alternate): If username is invalid, an error message will be displayed, and Administrator is sent back to form for re-entry of right credentials  Step 4: System will prompt to confirm username  Step 5: Administrator re-enter username of the account to be deleted  Step 6: System validates  Step 7: System deletes username from database |

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| Use Case Textual Description | |
| UC-ID | 2.2 |
| Name | Account Recovery |
| Description | To allow Administrator to recover their lost or forgotten account |
| Actor(s) | User |
| Precondition | The Administrator has registered account and forgotten password |
| Main Scenario | Step 1: Administrator selects account recovery on Log in screen  Step 2: System prints out a form to prompt for Administrator account email  Step 3: Administrator fills up the email and system do validation  Step 3(alternate): If email is invalid, an error message will be displayed, and Administrator is sent back to form for re-entry of right credentials  Step 4: System will generate new password  Step 5: Email with new generated password will be sent to Administrator email address. |

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| Use Case Textual Description | |
| UC-ID | 3.1 |
| Name | Login |
| Description | To allow User to log in to the system |
| Actor(s) | User |
| Precondition | User wants to use the system |
| Main Scenario | Step 1: User enters their log in credentials in the log in screen  Step 2: System hash the User password and validates with SQL Database  Step 2(alternate): If log in credentials is wrong, an error message will display, and User will be prompt to enter credentials again  Step 2(alternate): If log in credentials is wrong for 3 times, system will be lock from User for 3 minutes  Step 3: System will display Main Menu  Step 4: User will enter choice from Main Menu |

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| Use Case Textual Description | |
| UC-ID | 3.1.1 |
| Name | System Lockout |
| Description | Lock User out after several failed log in attempts |
| Actor(s) | User |
| Precondition | The user has 3 failed log in attempts |
| Main Scenario | Step 1: System will lock the user out of the system for 3 minutes  Step 2: System will resume after 3 minutes. |

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| Use Case Textual Description | |
| UC-ID | 3.1.2 |
| Name | Update IMEI |
| Description | Updates to IMEI of user mobile to database record for unique identifier |
| Actor(s) | User |
| Precondition | The user has created an account on computer and first time log in on mobile |
| Main Scenario | Step 1: After user has logged in, the system will automatically capture the missing unique identifier and update in the database. |

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| Use Case Textual Description | |
| UC-ID | 3.2 |
| Name | Register Account |
| Description | To allow user to register new account after he download the application for the first time |
| Actor(s) | User |
| Precondition | A user has installed the application and wish to create a new account |
| Main Scenario | Step 1: System prints out a sign-up form with fields to ask for user email address and desired password  Step 2: User submits form and system does validation  Step 2(alternate): If data is invalid, an error message will be displayed, and user is sent back to form for re-entry of right credentials  Step 3: User password will be hashed  Step 4: System updates the SQL Database  Step 5: User is redirected to log in screen |

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| Use Case Textual Description | |
| UC-ID | 3.2.1 |
| Name | Register Unique Identifier |
| Description | To allow system to register a unique identifier of user for log in |
| Actor(s) | User |
| Precondition | The user has registered an account and system will need to take in user’s unique identifier (IMEI number) |
| Main Scenario | Step 1: After user has created account, system will automatically capture the IMEI number of user mobile |

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| Use Case Textual Description | |
| UC-ID | 3.3 |
| Name | OTP Generation |
| Description | Generate OTP from QRCode upon scanning |
| Actor(s) | User |
| Precondition | The user wants to lock or unlock a file and has to key in the OTP on computer |
| Main Scenario | Step 1: When the user chooses to lock or unlock a file on his computer, a QRCode will be generated  Step 2: User will then use his mobile application function to generate the OTP from the QRCode generated **via U/C 3.3.1** |

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| Use Case Textual Description | |
| UC-ID | 3.4 |
| Name | Change Password |
| Description | To allow User to change their password |
| Actor(s) | User |
| Precondition | User wants to change existing password to a new one |
| Main Scenario | Step 1: User enters username and password at Log in screen  Step 2: User selects change password at the main menu  Step 3: System displays a form for user to fill up the new password they desire  Step 4: User enters the new desired password and system do validation  Step 5: System will update the SQL Database with the new password |

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| Use Case Textual Description | |
| UC-ID | 3.5 |
| Name | Account Recovery |
| Description | To allow user to recover their lost or forgotten account |
| Actor(s) | User |
| Precondition | The user has a registered account and forgotten password |
| Main Scenario | Step 1: User selects account recovery on Log in screen  Step 2: System prints out a form to prompt for User account email  Step 3: User fills up the email and system do validation  Step 3(alternate): If email is invalid, an error message will be displayed, and user is sent back to form for re-entry of right credentials  Step 4: System will generate new password  Step 5: Email with new generated password will be sent to User email address. |

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| Use Case Textual Description | |
| UC-ID | 3.6 |
| Name | Change Registered Computer |
| Description | To allow user to change their registered computer |
| Actor(s) | User |
| Precondition | The user has a registered account and lost or misplaced computer |
| Main Scenario | Step 1: User selects Change Registered Computer at Main Menu  Step 2: System prompts user to confirm the change of registered computer  Step 3: Once confirmed, the MAC Address of the user computer will be reset, and user will need to log in with new computer to register the unique identifier. |