Detailed Use Case (**Scenario #1**)

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| **Use Case Textual Description** | |
| **UC-ID** | 0.0 |
| **Name** | User Authentication |
| **Description** | User authentication is identified to be key to the security of the system. Not only does it protects the system from unauthorized usage, it also differentiates the intended user from three different levels of system permission through a logging in process. Password change and reset are other options on this menu. |
| **Actor(s)** | User, Operator, Manager, Administrator, Account Database |
| **Main Scenario** | 1) At user authentication screen, user enters his ID and password  2) Account database begins verification returning success  3) An instance of operator, manager, administrator will be created  4) User’s respective permitted menu will be displayed  5) User choose to quit, his account is logged out to user authentication screen  6) User choose to change password, he is prompted to enter his ID, current password and new password  7) Authentication success, password is changed  8) User choose to reset password, he is prompted to enter his ID and staff email address  9) Authentication success, random new password is generated and sent to his staff email |
| **Sub Scenario** | 1) At user authentication screen, user enters his ID and password  2) Account database begins verification returning failure, user may re-attempt  3) After three fails, user’s account will be locked, he may not attempt anymore |