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| LoginController |
| Description:  Login window. User enters his username and password to get access to the application.  Username and password will be compared with local database.  Precondition:  User started the application, login window is open.  User is already registered.  Postcondition:  Username and password was compared with local database.  If login data were valid, invoke “startApplication(ActionEvent event)”, otherwise open “wrong password”  Login window will be closed.  Launch application |
| Returns:   * Input validity: return usernameInput.validate(), passwordInput.validate() and passwordInputPlain.validate() * If first login: return “AppComponents” * usernameInput: Input must be uppercase -> return change   Exceptions:   * Throw exception if login input is not valid. * Throw exception if the application cannot be launched properly.   Result:  The authorization of using the application was granted, user can start working. |
| Type:  System – Operation  References:  -  Comment:  - |

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| Wrong Input |
| Description:  If the user enters a wrong password or username, an error message will be displayed  Precondition:  Login windows is open.  User entered wrong password or username.  Postcondition:  errorBox.setVisible = true  An error message will be displayed.  After 3 wrong attempts, the user must take a break of one minute before trying to login again.  If user enters the right username and password the application will be launched. |
| Returns:  Nothing  Exceptions:  Throws exception if the user enters a wrong username or password.  Result:  User is informed that the input was wrong. |
| Type:  System – Operation  References:  LoginController  Comment:  This operation will just be called, if the user enters an invalid username or input. |