**Login Specification Pseudo Code**

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User : Dùng để lưu trữ thông tin về người dùng

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| **Fields** | **Comment** |
| UserID | Mỗi người dùng có tài khoản với user id duy nhất |
| Passwd | Mật khẩu dùng để truy nhập |
| TimeLogin | Số lần người dùng đã đăng nhập vào hệ thống |
| Locked | Trạng thái của tài khoản để kiểm tra xem có bị khóa hay không |
| NumbeAttemps | Số lần được truy nhập tối đa sử dụng khi đánh sai mật khẩu Default là 3 |

QuestionUser: Dùng để lưu trữ những câu trả lời với những câu hỏi khi thay đổi mật khẩu.

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| --- | --- |
| **Fields** | **Comment** |
| UserID |  |
| QuestionID | Mỗi câu hỏi sẽ có 1 ID duy nhất để phân biệt với câu hỏi khác |
| Answer | Câu trả lời của người dùng ứng với câu hỏi được đưa ra |

QuestionBank: Dùng để lưu trữ câu hỏi trong hệ thống

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| --- | --- |
| **Fields** | **Comment** |
| QuestionID |  |
| Content | Nội dung của câu hỏi ứng với QuestionID |

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| **BEGIN MAINPROGRAM home**  Display MyGSet home page ;  Display **Login** main page ;  **IF** User click “Login” **THEN**  Display **login** page ; //call login  **ENDIF**  **END MAINPROGRAM home**  **----------------------------------------------**  **BEGIN MAINPROGRAM Login**  Display **Show** fields User ID & Password ;  **Get** User ID, Password from keyboard ;  **IF** User click "Clear" button **THEN**  Clear entered User id and password ;  **ELSE IF** User click "Submit" button **THEN**  call **checkIdandPassword**(UserId, Password) ;  **ENDIF**  **END MAINPROGRAM Login**  **--------------------------------------------**  **BEGIN SUBPROGRAM checkIdAndPassword(User Id, Password)**  **IF** User id has more than 16 digits OR password has less or more than 8 characters **THEN**  Display error message “User ID must be in sixteen digits & Passwords must be eight characters. Please re-enter Informations”;  Clear entered User id and password;  Else  **Get** result with id in database;  **IF** not exist id **THEN**  Display "User Id isn’t exist. Please re-enter User Id & Password" ;  Clear entered User id & Password;  **ELSE**  **IF** Locked= true **THEN**  Display "Call Center to unlock your User ID”;  Display MYGSET Home Page;  **ELSE**  **IF** Password=Passwd **THEN**  Update NumbeAttemps=3;  **IF** TimeLogin = 0 **THEN**  Call new userpage // call **newUser(user id)**  **ELSE**  Display e-Services User main page  **ENDIF**  Update TimeLogin +=1 ;  **ELSE**  Get NumbeAttemps form Database according with userid;  **IF** NumbeAttepss >0 **THEN**  update NumbeAttemps - =1;  DISPLAY "Invalid User ID/Password . Number of attempts left "+ NumbeAttemps;  Clear entered userid & password;  **ELSE**  Update Locked= true;  Display "Call Center to unlock the User ID";  Display MyGset home page;  **ENDIF**  **ENDIF**  **ENDIF**  **ENDIF**  **ENDIF**  **END**  **END SUBPROGRAM checkIdAndPassword(User Id, Password)**  **-----------------------------------------------------------------------------------**  **BEGIN MAINPROGRAM newUser(userid)**  Get the hint Question from database  Display the hint questions  **IF** user don’t choice any question to answer THEN  Display “An error had existed. Please contact with Call Center”;  Display MyGset portal home page;  **Else**  Get the answers ;  Update Database ;  Display changePassword page // call **changepassword(userid)**    **END IF**  **END MAINPROGRAM newUser(userid)**  **-------------------------------------------------------------------**  **BEGIN MAINPRGRAM changePassword(user id)**  Display entry fields Old password, New password , Re-enter new password;  Get Old password, New Password, re-enter new password;  **IF** Old password = Passwd & New password = re-enter new password & New password must be eight characters **THEN**  Display login page  **ELSE**  Display “An error had existed. Please contact with Call Center”;  Display MyGset Portal home  **ENDIF**  **END MAINPROGRAM changePassword(user id)**  **------------------------------------------------------------------------------------------------------** |