User : Dùng để lưu trữ thông tin về người dùng

|  |  |
| --- | --- |
| **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.

|  |  |
| --- | --- |
| **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

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

Example Database to Test Case

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| UserID | Passwd | TimeLogin | Locked | NumberAttemps |
| 12345678910 | khacviet | 0 | False | 3 |
| 1234567 | khacviet | 3 | False | 3 |
| 123456789101112 | khacviet | 3 | True | 0 |
| 0123456789101113 | khacviet | 0 | True | 3 |

|  |  |
| --- | --- |
| QuestionID | Content |
| 1 | A |
| 2 | C |
| 3 | Ac |

|  |
| --- |
| **BEGIN MAINPROGRAM home**  Display MyGSet home page ;  Display Login function in main page ;  IF User click “Login” THEN  Display login page ; //call login  ENDIF  **END MAINPROGRAM home**  **----------------------------------------------**  **BEGIN MAINPROGRAM Login**  Display entry 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)** |

**Screen Design**

1. **Screen Login**

|  |
| --- |
| **User ID :**  **Password :**  **Submit Clear** |

1. **Screen Login when user choice “ Submit” and id has more than 16 digits OR password has less or more 8 characters.**

|  |
| --- |
| User ID must be in sixteen digits & Passwords must be eight characters. Please re-enter Informations    User ID :  Password :  **Submit Clear** |

1. **Screen Login when user id isn’t exist in the system**

|  |
| --- |
| User Id isn’t exist. Please re-enter User Id & Password    User ID :  Password :  **Submit Clear** |

1. **Screen Login when User id is locked. A message is called by the system, and systeme redirect to the MyGset Home Page**

|  |
| --- |
| Call Center to unlock your User ID |

1. **Screen when user is active and a new member with the first login**

|  |
| --- |
| **Question 1 :a**  **Answer 1:b**  **Question 2 :c**  **Answer 2:d**  **Question: ac**  **Answer 3:b** |

1. Screen when user id is exist but user put a wrong password in less 3 times.

|  |
| --- |
| Invalid User ID/Password . Number of attempts left 2    User ID :  Password :  **Submit Clear** |

1. Screen when new member don’t choice any question to answer. System will redirect to home page and inform an error message as figure

|  |
| --- |
| An error had existed. Please contact with Call Center |

1. Screen when new member had answered the questions. System will redirect to changePassword page

|  |
| --- |
| Old password :  New password:  Re-Enter New password: |

1. Screen when new member entered old password , new password wrongly. System will inform a message.

|  |
| --- |
| An error had existed. Please contact with Call Center |