User Manual
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Chapter 1  Home Page

1.1.  Page 1 Main flow of event

1) Home page contains a sidebar with four hyperlinks which are Home, Login, Register and Reset. Home page also has information about the Cued Recall Graphical Password System.

Figure 1-1 Home page
Chapter 2  Login

2.1. Page 1 Main flow of event

1) User enters username to proceed into graphical authentication system.
2) User click Next button to go to login page 2.
3) Or if user wants to do registration he can click on New User? to go to the registration page.
4) Or if user wants to reset password and change user’s detail he can click on Reset? to go to the reset page.

2.2 Page 1 Alternative flow of event

1) User enters username to proceed into graphical authentication system.
2) User click Next button to go to login page 2.
3) Or if user wants to do registration he can click on New User? to go to the registration page.
4) Or if user wants to reset password and change user’s detail he can click on Reset? to go to the reset page.
5) If user enters wrong username then message “The username was not found. Please try again.” will appear and request the user to enter a correct username.

![Failed Log In](image)

**Failed Log In**

The username you entered were not found. Please call support for more information.

![Figure 2-3 Failed log in page](image)

6) If the user failed three log in attempts, username was disable and the system force the user to a failed log in page.

### 2.3 Page 2 Example of user ‘s database data

<table>
<thead>
<tr>
<th>No.</th>
<th>Password Image</th>
<th>Password code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td><img src="AA0055" alt="Image" /></td>
<td>kago</td>
</tr>
<tr>
<td>2</td>
<td><img src="AA0080" alt="Image" /></td>
<td>gorilla</td>
</tr>
<tr>
<td>3</td>
<td><img src="AA0057" alt="Image" /></td>
<td>deer</td>
</tr>
<tr>
<td>4</td>
<td><img src="AA0009" alt="Image" /></td>
<td>lion</td>
</tr>
<tr>
<td>5</td>
<td><img src="AA0020" alt="Image" /></td>
<td>bunny</td>
</tr>
</tbody>
</table>

Table 2-1 Example of five password images and password codes
1) User’s password image and password code will not show in the login page. It shows here to let the user know as an example.

2.4 Page 2 Main flow of event

Figure 2-4 User was enter correct password code

1) User enters password code for his password images that appear on the screen. The first letter of the password code will be show to act as a hint to the user. User need to enter the entire password to proceed to the next page.
2) User clicks Next to go to page 3.
3) Or click Reset to change the answer.
2.5 Page 2 Alternative flow of event 1

4) If the user forgot to enter any one of the password, a message “Password 2 is Required” will come out request the user to enter a password into the blank field.
2.6  Page 2 Alternative flow of event 2

5) If user enters any of the passwords wrongly a message “The password was not found. Please try again.” will appear and request the user to enter the correct passwords.

6) If user failed to login in three attempts, system force the user to leave the login page and show a failed login page. A mail that contain user’s original password.
will be sent to the user’s email address given by the user in the registration process.

2.7 Page 3 Main flow of event

![Login Wizard](image)

Step 1: Enter your User Name.
Step 2: Enter your password code.
Step 3: Result.

4/11/2008 1:13:16 PM

![User Name: lhl](image)

You have successfully entered our site. Welcome! Take your time and have fun!

Figure 2-8 Display of the result

1) System will display the authentication’s result in page 3.
2) A message “You have successfully entered our site. Welcome! Take your time ad have fun!” will appear indicated login successfully.
2.8 Page 3 Alternative flow of event

3) If the user login as Admin successfully, system will display a table with the entire user’s detail and a table with all the user login time record.
Chapter 3  Registration

3.1.  Page 1 Main flow of event

![Registration Wizard]

Figure 3-1 Registration form for user to fill in user’s detail

1) User fills in the registration form to become a user of the authentication system.
2) User is compulsory to fill in certain fields such as Username, Name, I.C No. and E-mail’s address.
3) If the user fills in all the compulsory field and click Next button then he will go to page 2.
3.2. Page 1 Alternative flow of event 1

![Registration Wizard](image)

Figure 3-2 Registration form for user to fill in user’s detail if any of the compulsory fields left empty

4) If the user skips to fill in the compulsory field, then a message will appear after the skipped field’s textbox.
Figure 3-3 Registration form for user to fill in user’s detail if the user fill in the field in wrong format

5) If the user fills in the IC No. and E-mail address field in wrong format, a message that the user enters the fields in correct format will appear.
3.4. Page 1 Alternative flow of event 3

Figure 3-4 Registration form for user to fill in user’s detail if the user fill in a chosen username

6) If the user chooses a username that already owned by other person, a message will appear and request the user to enter a new username to register.
3.5. Page 2 Main flow of event

![Registration Wizard](image)

**Figure 3-5 User choose 5 images as his password image**

1) User requires choosing 5 images from 5 categories (animal, insect, flower, reptile, bird).
2) Each time he clicks on the image, the image will show below.
3) User requires entering password code for each of the image he chooses. The password code must be more than 4 characters.
4) After click on the selected image and enter the password code, user click on the Submit button to confirm the selection each time after he made the selection.
5) After selected 5 images system will proceed to page 3.
3.6. Page 2 Alternative flow of event 1

Figure 3-6 User choose a same image as the previous one.

6) If the user chooses the same image again the system will prompt a message “Image already chosen!! Please choose another image!!”
3.7. Page 2 Alternative flow of event 2

7) If the user forgot to enter the password for the image he choose, a message “Required” will appear to request the user to enter the password.
3.8. Page 3 Main flow of event

Figure 3-8 System show the result for review.

1) System will show the result for review.
2) After review, user clicks on the Confirm button to save the detail into database.
3) After the system has completed the task, the system will direct the user to Login page.

3.9. Page 3 Alternative flow of event

4) User can change any of the images by click on the Change Picture button.
5) The Change Picture button will direct the user to the page 2 and user can make a new selection there.
6) User can change the password make earlier by alter the password field in the review page.
Chapter 4  Reset

4.1.  Page 1 Main flow of event

![Reset Wizard](image1)

Figure 4-1 User enter username for authentication purpose

1) User enters username for verification.
2) User clicks the Next button to go to page 2.

4.2.  Page 1 Alternative flow of event

![Reset Wizard](image2)

Figure 4-2 User enter wrong username

3) If user enters a wrong username, a message will appear and request the user to re-enter the username again.
4.3. Page 2 Main flow of event

**Figure 4-3** System display a registration form contain user’s detail.

1) System displays a form with user’s detail.
2) User can alter any of the information contain in the form.
3) After completed, user clicks the Next button to go to page 3.
4.4. Page 2 Alternative flow of event 1

Figure 4-4 Registration form for user to fill in user’s detail if any of the compulsory fields left empty

4) If the user skip to fill in the compulsory field, then a message will appear after the skipped field’s textbox.
4.5. Page 2 Alternative flow of event 2

Figure 4-5 Registration form for user to fill in user’s detail if the user fill in the field in wrong format

5) If the user fill in the IC No. and E-mail address field in wrong format, a message that show the correct format will appear.
4.6. Page 3 Main flow of event

Figure 4-6 Review page for user to change the passwords
1) User can change any of the images by clicking the Change Picture button.
2) The Change Picture button will direct the user to page 4 and user can make a new selection of picture there.
3) User can change the password made earlier by altering the password field in the review page.

4.7. Page 4 Main flow of event

![Reset Wizard](image)

**Figure 4-7 User choose image as his password image**

1) User requires choosing image from 5 categories (animal, insect, flower, reptile, bird) to be his new password image.
2) Each time he clicks on the image, the image will show below.
3) User requires entering password code for the image he chooses.
4) After click on the selected image and enter the password code, user click on the Submit button to confirm the selection each time after he made the selection.
5) After selected image system will proceed to page 5.

4.8. Page 4 Alternative flow of event 1

![Reset Wizard](image)

Figure 4-8 User choose a same image as the previous one

6) If the user chooses the same image again the system will prompt a message “Image already chosen!! Please choose another image!!”
4.9. Page 4 Alternative flow of event 2

7) If the user forgot to enter the password for the image he choose, a message “Required” will appear to request the user to enter the password.
4.10. Page 5 Main flow of event

Figure 4-10 System show the result for review.
1) System will show the result for review.
2) After review, user clicks on the Confirm button to save the detail into database.
3) After the system has completed the task, the system will direct the user to Login page.

4.11. Page 5 Alternative flow of event

4) User can change any of the images by click on the Change Picture button.
5) The Change Picture button will direct the user to the page 3 and user can make a new selection of picture there.
6) User can change the password make earlier by alter the password field in the review page.