2.4.4.7 Create *link_existing_account*

Create `link_existing_account` function in **Oauth.php** file controller. Retrieve user info stored in session, validate the email and password input. Attempt to authenticate the user using email and password. If the user is authenticated, update the IC number.

```php
public function link_existing_account() {
    $this->data['theme'] = 'admin';
    $this->data['model'] = 'login';
    $keycloakData = $this->session->userdata('keycloak_temp_data');
    $nric = $keycloakData['nric'];
    if (!$keycloakData) {
        show_error('Session expired or Keycloak data not available.');
        return;
    }

    if ($this->input->post()) {
        $username = $this->input->post('username');
        $password = md5($this->input->post('password'));
        $this->db->where('username', $username);
        $this->db->where('password', $password);
        $user = $this->db->get('administrators')->row_array();
        if ($user) {
            $hashed_nric = hash('sha256', $nric);
            $this->db->where('user_id', $user['user_id']);
            $this->db->update('administrators', ['ic_number' => $hashed_nric]);
            $this->session->set_userdata('keycloak_user', $keycloakData);
            $this->session->set_userdata('admin_id', $user['user_id']);
            $this->session->set_userdata('admin_profile_img', $user['profile_img']);
            $this->session->set_userdata('chat_token', $user['token']);
            $this->session->set_userdata('role', $user['role']);
            $access_result_data = $this->db->where('admin_id', $user['user_id'])->where('access', 1)->select('module_id')->get('admin_access')->result_array();
            $access_result_data_array = array_column($access_result_data, 'module_id');
            $this->session->set_userdata('access_module', $access_result_data_array);
            redirect('admin/dashboard');
        } else {
            $this->session->set_flashdata('error', 'Invalid username or password');
            redirect('admin/oauth/link_existing_account');
```

Figure 52: *link_existing_account* Function