2.4.3.4 Create *getAccessToken* Function

Create a *getAccessToken* function in the **Auth.php** file controller. This method is to exchange authorization code for access token.

```php
private function getAccessToken($code)
{
    $client = \Config\Services::curlrequest();

    $keycloakBaseUrl = getenv('KEYCLOAK_BASE_URL');

    $realm = getenv('KEYCLOAK_REALM');

    $response = $client->post("$keycloakBaseUrl/realms/$realm/protocol/openid-connect/token", [

        'form_params' => [

            'grant_type' => 'authorization_code',

            'client_id' => getenv('KEYCLOAK_CLIENT_ID'),

            'client_secret' => getenv('KEYCLOAK_CLIENT_SECRET'),

            'redirect_uri' => getenv('KEYCLOAK_REDIRECT_URI'),

            'code' => $code,

        ],

    ]);

    if ($response instanceof \CodeIgniter\HTTP\Response) {
    if ($response->getStatusCode() !== 200) {

        throw new \Exception("Failed to fetch access token from Keycloak: " . $response->getBody());

    }

    return json_decode($response->getBody(), true);

    }

    throw new \Exception("Invalid response from Keycloak");

}
```

Figure 33: getAccessToken Function