



**SL**

**Using ALMA  
APIs to create  
new patron  
accounts**

# Requirements

- Use Active Directory as the single source of patron data
- Must cater for walk-up and online patrons
- Create ALMA patron records
- Need to differentiate between under 16 year olds, Queenslanders and non-Queenslanders
- Patron self management



# What we used

- Created a series of web pages using Visual Studio / MVC framework
- Carried out updates directly to Active Directory
- Used the Queensland Government Open Dataset on addresses to help validate Queensland addresses
- Used the Google reCaptcha
- Used the Ex Libris Patron API





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### Login form

Login to update your contact details, change your password and renew your SLQ membership.

Username \*


Password \*

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[Retrieve username or password](#)

## Retrieve username or password

Enter your email address so we can send you your username and password reset instructions. If your email address is used by more than one SLQ member, click [here](#) to contact us.

Your email address \*

I'm not a robot
 
[reCAPTCHA](#)  
[Privacy](#) [Terms](#)

**Submit**

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patron.slq.qld.gov.au/?view=1

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## Registration form

**Username \***

**Password \***   
Minimum 8 characters - maximum 20 characters.  
Note: you can change this Password later.

**Confirm Password \***   
Enter your password again here for confirmation.

**I am 16 years or older**   
Children 15 years and younger require written consent from a parent/guardian for onsite computing and borrowing services.

**First Name \***

**Last Name \***

**I live in Queensland**

**Residential Address Search**   
Type your address to search then select from the popup list.  
For example, 400 George. Minimum 5 characters to type.

**Address \***


**Town/Suburb/Locality \***

**State \***

**Postcode \***

**Email \***

**Confirm Email \***

I'm not a robot   
reCAPTCHA  
Privacy - Terms

State Library of Queensland **Alma** liamallen Tasks Analytics Currently at: SLQ - Collection Access Help Admin, User

User Details Cancel Toggle Account Type Open For Update Save

Name allen, Liam Primary identifier liamallen Record type Public  
 Account Type External Owner liamallen User group Queensland residents

[Manage fulfillment activities](#)

General Information Contact Information Identifiers Notes Blocks Fines/Fees Statistics Attachments Proxy For

**User Information**

First name \* Liam Middle name  
 Last name \* allen Primary identifier \* liamallen  
 PIN number \*\*\*\* Generate  
 Job category Customer (not listed) Job description  
 Gender User group Queensland residents  
 Campus Website URL  
 Preferred language English Status Active  
 Status date 19/01/2015 Birth date 03/01/0001  
 Expiration date 19/01/2017 Purge date 19/01/2018  
 Resource sharing library

Created By exl\_api (19/01/2015) Updated By exl\_api (19/01/2015)

**User Management Information**  
 Disable all login restrictions

**User Roles**  
Add Role Add from Profiles Remove Selected 1 - 1 of 1 Records Tools

	Active	Role Name	Role Area	Scope	Parameters	Status Date	Actions
1	<input checked="" type="checkbox"/>	Patron	Fulfillment	State Library of Queensland	-	19/01/2015	Actions

Cancel Toggle Account Type Open For Update Save

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# ALMA API documentation

- Documentation is located on the Ex Libris Developer Network
- For this project e accessed the following page  
<https://developers.exlibrisgroup.com/alma/apis/users>
- Anyone can access these pages





# ALMA API Call

```
Namespace Slq.Cms.Data.Alma
{
    using Newtonsoft.Json;
    using Newtonsoft.Json.Linq;

    using Slq.Cms.Data.Entity;
    public class AlmaEntityDao : AlmaRestClient
    {
        public AlmaResult GetUser(string username)
        {
            return this.HttpGet("/users/" + username);
        }
        public AlmaResult CreateUser(user user)
        {
            return this.HttpPost("/users", JsonConvert.SerializeObject(user));
        }
        public AlmaResult UpdateUser(detailuser user)
        {
            return this.HttpPut("/users/" + user.primary_id, JsonConvert.SerializeObject(user));
        }
        public AlmaResult UpdateUserPassword(string username, JObject user)
        {
            return this.HttpPut("/users/" + username, JsonConvert.SerializeObject(user));
        }
    }
}
```





*all yours*