

Patron API Documentation — DLRL Koha

Base URL: http://14.139.92.12/dlrl_koha_api/

Auth: HTTP Basic — username test / password test@2024

Header: Authorization: Basic dGVzdDp0ZXN0QDIwMjQ=

Content-Type: application/json

Clean URLs: no index.php required

Method	Endpoint
POST	/api/patron/upsert
GET	/api/patron/view
GET	/api/patron/view?cardnumber=XXX
GET	/api/patron/overdue
GET	/api/patron/overdue?cardnumber=XXX
POST	/api/patron/delete

1. Upsert Patron — POST /api/patron/upsert

Rules

Mode	Rule
Insert	If cardnumber does not exist → send full patron JSON
Update	If exists → cardnumber mandatory; send only keys to change
Multiple	Put one or many objects inside "data": [...]

Insert mandatory: cardnumber, surname, firstname, categorycode, userid, password

Optional borrower fields: title, othernames, initials, streetnumber, address, address2, city, state, zipcode, country, email, phone, dateofbirth, dateenrolled, dateexpiry, sex, branchcode (default DLRL)

Image: imagefile (base64 data URI) + optional mimetype (e.g. image/png)

Borrower attribute codes

Code	Example
DESIG	SCIENTIS-E
DIV	MV-3
RT	No

Note: JSON must be valid. Do not leave a trailing comma after the last property.

Full insert example

```
{
  "data": [
    {
      "cardnumber": "CQR40",
      "surname": "VVV",
      "firstname": "K",
      "title": "CQR40",
      "othernames": "VK",
      "initials": "K",
      "streetnumber": "123",
      "address": "Coimbatore",
      "address2": "",
      "city": "Mettupalayam",
      "state": "TamilNadu",
      "zipcode": "641301",
      "country": "India",
      "email": "vk123@gmail.com",
      "phone": "1234567890",
      "dateofbirth": "2000-01-01",
      "categorycode": "2CQR",
      "dateenrolled": "2024-09-19",
      "dateexpiry": "2040-09-19",
      "sex": "M",
      "userid": "CQR40",
      "password": "CQR40",
      "imagefile": "...",
      "mimetype": "image/png",
      "DESIG": "SCIENTIS-E",
      "DIV": "MV-3",
      "RT": "No"
    }
  ]
}
```

Partial update example

```
{
  "data": [
    {
      "cardnumber": "CQR40",
      "email": "new.email@gmail.com",
      "phone": "9876543210",
      "DESIG": "SCIENTIST"
    }
  ]
}
```

Success response

```
{
  "status": true,
  "message": "All patrons processed successfully.",
  "success_count": 1,
  "failed_count": 0,
  "results": [
    {
      "success": true,
      "index": 0,
      "cardnumber": "CQR40",
      "borrowernumber": 101,
      "action": "insert",
      "message": "Patron inserted successfully."
    }
  ]
}
```

action is insert or update. Each patron is saved in a DB transaction (borrowers + patronimage + borrower_attributes).

2. View Patron — GET /api/patron/view

- All patrons: /api/patron/view
- One patron: /api/patron/view?cardnumber=CQR40

Returns borrower fields (password excluded), imagefile (base64), mimetype, flat attributes DESIG / DIV / RT, and codes_attributes list.

3. Overdue — GET /api/patron/overdue

- All: /api/patron/overdue
- One: /api/patron/overdue?cardnumber=CQR40

Designation = borrower_attributes where code = DESIG.

Columns: S_No, ID_No, Name, Designation, Acc_No, Title, Author, Issue_Date, Due_Date, Overdue_Days

4. Delete Patron — POST /api/patron/delete

cardnumber is mandatory. Deletes in order: patronimage → borrower_attributes → borrowers.

```
{
  "data": [
    { "cardnumber": "CQR40" }
  ]
}
```

Common error messages

Message	Cause
Authorization header is required...	Missing Basic Auth
Invalid username or password.	Bad credentials
Invalid JSON body: ...	Malformed JSON (check trailing commas)
cardnumber is mandatory...	Missing cardnumber
Insert failed. Missing mandatory field(s): ...	Incomplete insert
imagefile is not valid base64 data.	Bad image payload
Cardnumber "X" not found. Nothing deleted.	Delete target missing
Database connection failed...	Wrong DB config

Server checklist

1. PHP 8.2+ (mysqli, mbstring, intl, json)
2. Apache mod_rewrite + AllowOverride All
3. App.php → baseUrl and indexPage = "
4. Database.php → Koha DB credentials
5. writable/ folder writable
6. public/.htaccess → RewriteBase /drl_koha_api/