

OAuthLoginApp Server – Technical Documentation

File: `server/index.js`

Purpose: Provides a Node.js/Express backend API to securely fetch Auth0 user details (such as `last_login`, `logins_count`, and `last_ip`) using the Auth0 Management API.

Overview

This Express server exposes an endpoint to retrieve user details from Auth0. It uses the Client Credentials grant to obtain a Management API token and fetches user information securely, so sensitive Auth0 credentials are never exposed to the frontend.

Key Features

- CORS enabled for requests from `http://localhost:3000`
 - Securely fetches Auth0 Management API token using client credentials
 - Exposes `/api/user/:userId` endpoint to return selected user details
 - Handles errors and logs issues for debugging
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Environment Variables

The server expects the following variables in a `.env` file in the `server/` directory:

```
AUTH0_DOMAIN=your-tenant.us.auth0.com AUTH0_MGMT_CLIENT_ID=your-m2m-client-id  
AUTH0_MGMT_CLIENT_SECRET=your-m2m-client-secret PORT=5000
```

Main Components

1. CORS Middleware

Allows cross-origin requests from the React frontend:

```
app.use(  
  cors({  
    origin: "http://localhost:3000",  
    credentials: true,  
  })  
);
```

2. Management API Token Helper

Fetches a Management API token using the client credentials grant:

```
async function getManagementToken() {  
  // ...see code for details...  
}
```

3. User Details Endpoint

Exposes a GET endpoint to fetch user details from Auth0:

```
app.get("/api/user/:userId", async (req, res) => {  
  // ...see code for details...  
});
```

Calls `getManagementToken()` to get a valid token

Fetches user details from Auth0 Management API

Returns `last_login`, `logins_count`, and `last_ip` fields

4. Error Handling

Logs errors to the console for debugging. Returns a 500 status with error message if any step fails

5. Server Startup

Starts the Express server on the configured port:

```
const PORT = process.env.PORT || 5000;  
app.listen(PORT, () => {  
  console.log(`☑ Server running at http://localhost:${PORT}`);  
});
```

Example Usage

Request:

GET http://localhost:5000/api/user/auth0|xxxxxxxxxxxxxx

Response:

```
{  
  "last_login": "2025-07-09T03:04:52.050Z",  
  "logins_count": 5,  
  "last_ip": "1.2.3.4"  
}
```