

Xaverian ACM Student Chapter – API

This is the official API for the Xaverian ACM Student Chapter. It provides endpoints for managing entities related to the chapter's website, such as members, users, activities, and authentication.

API Documentation

You can explore the available endpoints using the Swagger interface:

GET /swagger

Open it in your browser at:

<http://localhost:<PORT>/swagger>

Getting Started

☒ Prerequisites

- [Docker](#).
 - (Optional) [Bun](#) if you want to run it locally without Docker.
-

Local Development (with Bun)

```
bun install
bun run dev
```

The API will be available at:

<http://localhost:<PORT>>

Running with Docker

Build the image:

```
docker build -t acm-api .
```

Run the container:

```
docker run --env-file .env -p <PORT>:<PORT> acm-api
```

Test it:

```
curl http://localhost:<PORT>/ping
```

Dockerfile Overview

This Dockerfile uses a multi-stage build with [Bun](#) and a [Distroless](#) image for production.

- Installs dependencies with Bun.
- Runs automated tests during build.
- Compiles the app to a single executable using Bun.
- Produces a lightweight, secure image with no shell or unnecessary packages.

Tech Stack

- [Bun](#) – Fast JavaScript runtime
- [Elysia.js](#) – Web framework
- [Swagger](#) – API documentation
- Docker + Distroless – Minimal and secure production containers

Developers

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