1. **Auth Endpoints (Users sign up, login, etc.)**

| **Method** | **Endpoint** | **Purpose** |
| --- | --- | --- |
| POST | /api/register | Register new user |
| POST | /api/login | Login user |
| POST | /api/logout | Logout user |
| GET | /api/profile | Get current logged-in user info |

1. **Songs Endpoints (Manage songs)**

| **Method** | **Endpoint** | **Purpose** |
| --- | --- | --- |
| GET | /api/songs | List all songs |
| GET | /api/songs/{id} | Get details of a song |
| POST | /api/songs | **(Admin)** Add a new song |
| PUT | /api/songs/{id} | **(Admin)** Update a song |
| DELETE | /api/songs/{id} | **(Admin)** Delete a song |

1. **Albums Endpoints**

| **Method** | **Endpoint** | **Purpose** |
| --- | --- | --- |
| GET | /api/albums | List all albums |
| GET | /api/albums/{id} | Get album details + songs inside |
| POST | /api/albums | **(Admin)** Create a new album |
| PUT | /api/albums/{id} | **(Admin)** Update album |
| DELETE | /api/albums/{id} | **(Admin)** Delete album |

1. **streming Endpoints**

| **Method** | **Endpoint** | **Purpose** |
| --- | --- | --- |
| GET | /api/ **streming** | List all artists |
| GET | /api/ **streming** /{id} | Get artist details + albums/songs |
| POST | /api/ **streming** | **(Admin)** Create a new artist |
| PUT | /api/ **streming** /{id} | **(Admin)** Update artist |
| DELETE | /api/ **streming** /{id} | **(Admin)** Delete artist |

1. **Favorites / Playlist Endpoints (User side)**

| **Method** | **Endpoint** | **Purpose** |
| --- | --- | --- |
| GET | /api/favorites | List user's favorite songs |
| POST | /api/favorites/{song\_id} | Add song to favorites |
| DELETE | /api/favorites/{song\_id} | Remove song from favorites |

6 – type de communication :

**User service send to playlist service : synchroun**

**user service and streaming service : synchroun**

**playlist service and streaming service : asynchroun**

**streaming service and recommendation service : asynchroun**

**recommendation service and notification service : asynchroun**