

Submitted by:
Malaika Zulqarnain

PROJECT: Offline Music Player App - Database Backend

TECH STACK: Node.js, Express, MongoDB, Mongoose

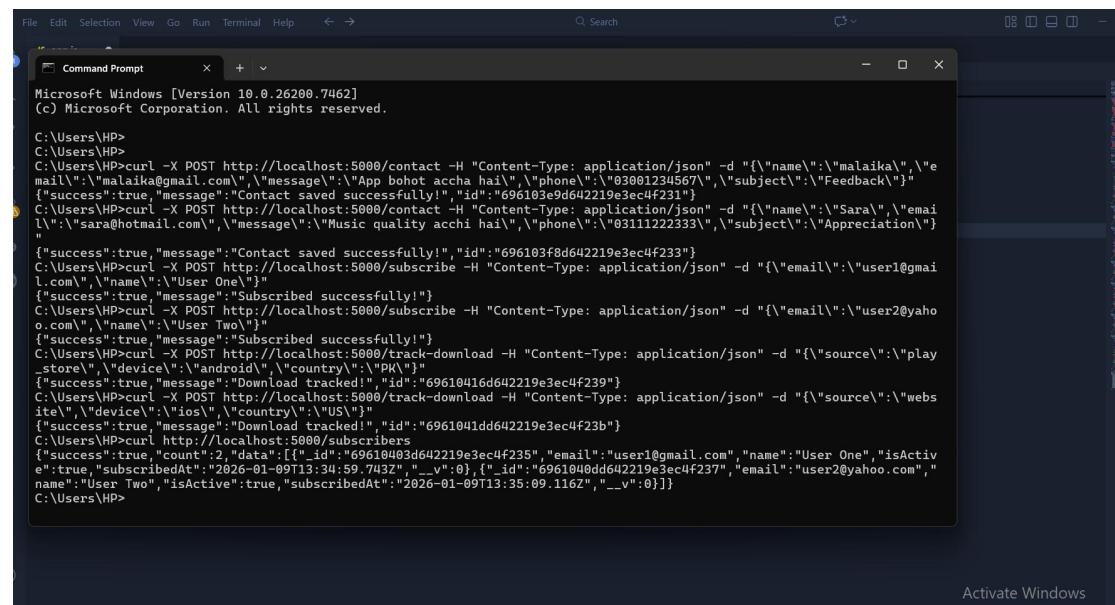
DATABASE: offline_music

CONNECTION: mongodb://localhost:27017/offline_music

TOTAL COLLECTIONS: 3

COLLECTIONS OVERVIEW:

- └─ analytics
 - └─ Tracks app downloads by source, device, country
- └─ contacts | └─ Stores user contact form submissions
- └─ subscribers
 - └─ Manages newsletter email subscriptions



```
File Edit Selection View Go Run Terminal Help
Microsoft Windows [Version 10.0.26200.7462]
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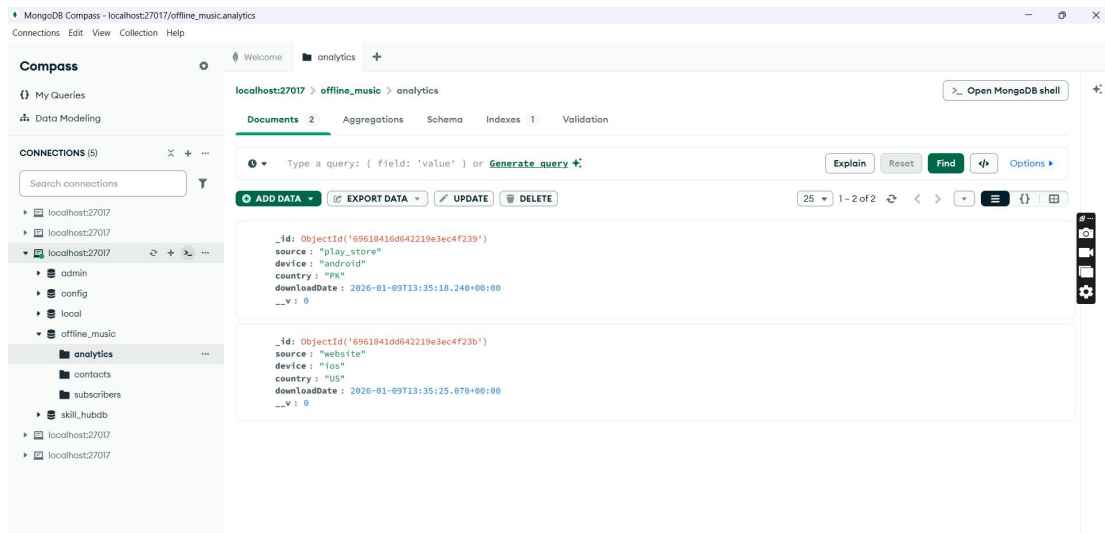
C:\Users\HP>
C:\Users\HP>
C:\Users\HP>curl -X POST http://localhost:5000/contact -H "Content-Type: application/json" -d '{"name":"Malaika","email":"malaika@gmail.com","message":"App bohot accha hai","phone":"03001234567","subject":"Feedback"}'
{"success":true,"message":"Contact saved successfully!","id":"696103e9d642219e3ec4f231"}
C:\Users\HP>curl -X POST http://localhost:5000/contact -H "Content-Type: application/json" -d '{"name":"Sara","email":"sara@hotmail.com","message":"Music quality acchi hai","phone":"03111222333","subject":"Appreciation"}'
{"success":true,"message":"Contact saved successfully!","id":"696103f8d642219e3ec4f233"}
C:\Users\HP>curl -X POST http://localhost:5000/subscribe -H "Content-Type: application/json" -d '{"email":"user1@gmail.com","name":"User One"}'
{"success":true,"message":"Subscribed successfully!"}
C:\Users\HP>curl -X POST http://localhost:5000/subscribe -H "Content-Type: application/json" -d '{"email":"user2@yahoo.com","name":"User Two"}'
{"success":true,"message":"Subscribed successfully!"}
C:\Users\HP>curl -X POST http://localhost:5000/track-download -H "Content-Type: application/json" -d '{"source":"play_store","device":"android","country":"PK"}'
{"success":true,"message":"Download tracked!","id":"69610416d642219e3ec4f239"}
C:\Users\HP>curl -X POST http://localhost:5000/track-download -H "Content-Type: application/json" -d '{"source":"webstore","device":"ios","country":"US"}'
{"success":true,"message":"Download tracked!","id":"6961041dd642219e3ec4f23b"}
C:\Users\HP>curl http://localhost:5000/subscribers
{"success":true,"count":2,"data":[{"_id":"69610403d642219e3ec4f235","email":"user1@gmail.com","name":"User One","isActive":true,"subscribedAt":"2026-01-09T13:34:59.743Z","_v":0},{_id":"6961040dd642219e3ec4f237","email":"user2@yahoo.com","name":"User Two","isActive":true,"subscribedAt":"2026-01-09T13:35:09.116Z","_v":0}]}
C:\Users\HP>
```

```
Command Prompt - node app x + v
Microsoft Windows [Version 10.0.26200.7462]
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C:\Users\HP>cd C:\Users\HP\OneDrive\Desktop\music-app

C:\Users\HP\OneDrive\Desktop\music-app>node app.js
[dotenv@17.2.3] injecting env (2) from .env -- tip: 🐞 add observability to secrets: https://dotenvx.com/ops
🚀 Server running on: http://localhost:5000
📁 Your Folder: C:\Users\HP\OneDrive\Desktop\music-app
📡 Available APIs:
  • GET / - Home page
  • POST /contact - Save contact
  • GET /contacts - Get all contacts
  • GET /contacts/search?email=... - Search contacts
  • POST /subscribe - Newsletter subscribe
  • GET /subscribers - Get all subscribers
  • POST /track-download - Track app download
  • GET /analytics - Get download analytics
✅ MongoDB Connected!
```

```
localhost:5000/contacts
etty-print
success:true,"count":4,"data":[{"status":"pending","_id":"6960f8e8dc88b8080981d05","name":"HP User","email":"hp@test.com","message":"Testing from HP desktop","date":"2026-01-09T13:00:24.518Z","_v":0},
{"status":"pending","_id":"6960ff39cdc88b8080981d08","name":"Ali","email":"ali@test.com","message":"App accha hai","date":"2026-01-09T13:14:33.312Z","_v":0},
{"_id":"696103e9d642219e3ec4f231","name":"malaika","email":"malaika@gmail.com","message":"App bohot accha hai","phone":"93001234567","subject":"feedback","status":"pending","date":"2026-01-11T3:34:33.532Z","_v":0},{_id":"696103f8d642219e3ec4f233","name":"Sara","email":"sar@hotmail.com","message":"Music quality acchi","phone":"93111222333","subject":"Appreciation","status":"pending","date":"2026-01-09T13:34:48.879Z","_v":0}]}
```



Welcome | contacts

localhost:27017 > offline_music > contacts Open MongoDB shell

Documents 4 Aggregations Schema Indexes 1 Validation

Type a query: { field: 'value' } or [Generate query](#) Explain Reset Find Options

ADD DATA EXPORT DATA UPDATE DELETE 25 1-4 of 4 Refresh Previous Next Menu Settings Fullscreen

```
{
  "_id": ObjectId('6960f8e8cdc88b888981d05'),
  "name": "HP User",
  "email": "hp@test.com",
  "message": "Testing from HP desktop",
  "date": 2026-01-09T13:00:24.518+00:00,
  "__v": 0
}
```

```
{
  "_id": ObjectId('6960ff39cdc88b888981d08'),
  "name": "ayasha",
  "email": "ali@test.com",
  "message": "App accha hai",
  "date": 2026-01-09T13:14:33.312+00:00,
  "__v": 0
}
```

```
{
  "_id": ObjectId('696103e9d642219e3ec4f231'),
  "name": "malaika",
  "email": "malaika@gmail.com",
  "message": "App bohot accha hai",
  "phone": "03001234567",
  "subject": "Feedback",
  "status": "pending",
  "date": 2026-01-09T13:34:33.535+00:00,
  "__v": 0
}
```

```
{
  "_id": ObjectId('696103f8d642219e3ec4f233'),
  "name": "malaika",
  "email": "malaika@gmail.com",
  "message": "App bohot accha hai",
  "phone": "03001234567",
  "subject": "Feedback",
  "status": "pending",
  "date": 2026-01-09T13:34:33.535+00:00,
  "__v": 0
}
```

MongoDB Compass - localhost:27017/offline_music/subscribers

Connections Edit View Collection Help

Welcome | contacts | subscribers

localhost:27017 > offline_music > subscribers Open MongoDB shell

Documents 2 Aggregations Schema Indexes 2 Validation

Type a query: { field: 'value' } or [Generate query](#) Explain Reset Find Options

ADD DATA EXPORT DATA UPDATE DELETE 25 1-2 of 2 Refresh Previous Next Menu Settings Fullscreen

```
{
  "_id": ObjectId('69610483d642219e3ec4f235'),
  "email": "user1@gmail.com",
  "name": "User One",
  "isActive": true,
  "subscribedAt": 2026-01-09T13:34:59.743+00:00,
  "__v": 0
}
```

```
{
  "_id": ObjectId('6961048dd642219e3ec4f237'),
  "email": "user2@yahoo.com",
  "name": "User Two",
  "isActive": true,
  "subscribedAt": 2026-01-09T13:35:09.116+00:00,
  "__v": 0
}
```

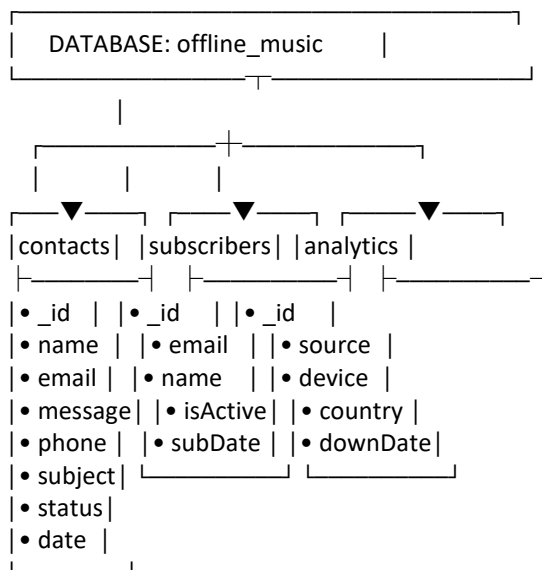
```

Microsoft Windows [Version 10.0.26200.7462]
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C:\Users\HP>curl http://localhost:5000
📁 Music App Working from C:\Users\HP\OneDrive\Desktop\music-app
C:\Users\HP>curl http://localhost:5000/contacts
{"success":true,"count":4,"data":[{"status":"pending","_id":"6960fbe8cdc88b8080981d05","name":"HP User","email":"hp@test.com","message":"Testing from HP desktop","date":"2026-01-09T13:00:24.518Z","__v":0},{status":"pending","_id":"6960ff39cdc88b8080981d08","name":"ayesha","email":"ali@test.com","message":"App accha hai","date":"2026-01-09T13:14:33.312Z","__v":0},{_id":"696103e9d642219e3ec4f231","name":"malaika","email":"malaika@gmail.com","message":"App bohot accha hai","phone":"03001234567","subject":"Feedback","status":"pending","date":"2026-01-09T13:34:33.535Z","__v":0},{_id":"696103f8d642219e3ec4f233","name":"Sara","email":"sara@hotmail.com","message":"Music quality acchi hai","phone":"03111222333","subject":"Appreciation","status":"pending","date":"2026-01-09T13:34:48.879Z","__v":0}]}
C:\Users\HP>curl "http://localhost:5000/contacts/search?email=malaika@gmail.com"
{"success":true,"count":1,"data":[{"_id":"696103e9d642219e3ec4f231","name":"malaika","email":"malaika@gmail.com","message":"App bohot accha hai","phone":"03001234567","subject":"Feedback","status":"pending","date":"2026-01-09T13:34:33.535Z","__v":0}]}
C:\Users\HP>

```

Database Schema Diagram



RELATIONSHIPS:

- contacts —
- subscribers — All in same database
- analytics —