

# Seed API Endpoint Usage Guide

## Overview

A secure API endpoint has been created to trigger database seeding on your Render deployment. This allows you to seed the database without needing shell access.

## What Was Implemented

### 1. New Files Created

- backend/src/controllers/seed.controller.ts : Controller with authentication logic and seed execution
- backend/src/routes/seed.routes.ts : Route definitions for the seed API

### 2. Modified Files

- backend/src/routes/index.ts : Integrated seed routes under /api/seed
- backend/src/app.ts : Added seed endpoint to API documentation

## Endpoints

### Health Check

```
GET https://workigom-backend.onrender.com/api/seed/health
```

**Purpose:** Check if the seed service is available and configured

**Response:**

```
{
  "success": true,
  "message": "Seed service is available",
  "configured": true,
  "timestamp": "2025-10-25T20:15:30.123Z"
}
```

### Run Seed

```
POST https://workigom-backend.onrender.com/api/seed/run
```

**Purpose:** Trigger database seeding

**Headers Required:**

- x-seed-secret : workigom\_seed\_2024 (matches your SEED\_SECRET environment variable)

**Response on Success:**

```
{
  "success": true,
  "message": "Database seeded successfully",
  "timestamp": "2025-10-25T20:15:30.123Z",
  "output": "🌱 Seeding database...\n✓ Admin user created...",
  "warnings": null
}
```

#### Response on Authentication Failure:

```
{
  "success": false,
  "message": "Unauthorized: Missing x-seed-secret header"
}
```

## How to Use

### Option 1: Using cURL (Command Line)

```
curl -X POST https://workigom-backend.onrender.com/api/seed/run \
-H "x-seed-secret: workigom_seed_2024" \
-H "Content-Type: application/json"
```

### Option 2: Using Postman

1. Create a new POST request
2. URL: <https://workigom-backend.onrender.com/api/seed/run>
3. Go to **Headers** tab
4. Add header:
  - Key: `x-seed-secret`
  - Value: `workigom_seed_2024`
5. Click **Send**

### Option 3: Using JavaScript/Fetch

```
fetch('https://workigom-backend.onrender.com/api/seed/run', {
  method: 'POST',
  headers: {
    'x-seed-secret': 'workigom_seed_2024',
    'Content-Type': 'application/json'
  }
})
  .then(response => response.json())
  .then(data => console.log('Seed result:', data))
  .catch(error => console.error('Error:', error));
```

## Option 4: Using Python

```
import requests

url = 'https://workigom-backend.onrender.com/api/seed/run'
headers = {
    'x-seed-secret': 'workigom_seed_2024',
    'Content-Type': 'application/json'
}

response = requests.post(url, headers=headers)
print(response.json())
```

## Deployment Status

### ✓ Changes Committed and Pushed

- Commit: `feat: add secure API endpoint for database seeding`
- Branch: `master`
- Repository: `https://github.com/volkanakbulut73/workigom.git`

### 🚀 Next Steps for You

#### 1. Wait for Render to Deploy

- Render will automatically detect the new commit and start deployment
- Check your Render dashboard: <https://dashboard.render.com>
- Look for the “workigom-backend” service
- Wait for the “Live” status

#### 2. Verify the Endpoint is Available

bash

```
curl https://workigom-backend.onrender.com/api/seed/health
```

Expected response:

```
json
{
    "success": true,
    "message": "Seed service is available",
    "configured": true
}
```

#### 1. Run the Database Seed

bash

```
curl -X POST https://workigom-backend.onrender.com/api/seed/run \
-H "x-seed-secret: workigom_seed_2024"
```

#### 2. Verify the Data was Created

- Log into your application at <https://workigom.vercel.app>
- Try logging in with test credentials:

- **Admin:** admin@workigom.com / admin123
- **Company:** company1@workigom.com / company123
- **User:** mehmet@example.com / user123

## What the Seed Creates

---

The seed script creates:

- **1 Admin user** (admin@workigom.com)
- **4 Corporate users** (Companies/Employers/Donors)
- **5 Individual users** (Job seekers/Donation receivers)
- **5 Jobs** across different categories
- **5 Applications** for the jobs
- **5 Donations** of various food types
- **4 Messages** between users
- **6 Notifications** for various events

## Security Features

---

1. **Authentication Required:** The endpoint requires the `x-seed-secret` header
2. **Environment Variable:** The secret is stored securely in Render's environment variables
3. **No Credentials Exposed:** The seed secret is not hardcoded in the codebase
4. **Error Handling:** Comprehensive error handling and logging
5. **Non-Production Warning:** Consider disabling this endpoint in production or using a different approach

## Troubleshooting

---

### **Issue: “Unauthorized: Missing x-seed-secret header”**

**Solution:** Make sure you're including the `x-seed-secret` header in your request

### **Issue: “Forbidden: Invalid seed secret”**

**Solution:** Verify that SEED\_SECRET is set to `workigom_seed_2024` in Render's environment variables

### **Issue: “Server configuration error: SEED\_SECRET not configured”**

**Solution:**

1. Go to Render dashboard
2. Select your backend service
3. Go to Environment section
4. Add/verify: `SEED_SECRET=workigom_seed_2024`
5. Restart the service

### **Issue: “Failed to seed database”**

**Solution:**

1. Check Render logs for specific error messages
2. Verify DATABASE\_URL is correctly set
3. Ensure database is accessible
4. Check if migrations have been run

## Best Practices

---

1. **Run Once:** You typically only need to run this once after deployment

2. **Idempotent:** The seed script uses `upsert` operations, so running it multiple times won't create duplicates for some entities
3. **Backup First:** If running on a database with existing data, consider backing up first
4. **Monitor Logs:** Check Render logs while seeding to catch any issues early
5. **Verify Results:** Always verify the seeded data by logging into the application

## Example Full Workflow

```
# 1. Check if backend is live
curl https://workigom-backend.onrender.com/api/health

# 2. Check if seed endpoint is configured
curl https://workigom-backend.onrender.com/api/seed/health

# 3. Run the seed
curl -X POST https://workigom-backend.onrender.com/api/seed/run \
-H "x-seed-secret: workigom_seed_2024" \
-H "Content-Type: application/json"

# 4. Wait for completion (usually 10-30 seconds)

# 5. Test login at https://workigom.vercel.app
# Use: admin@workigom.com / admin123
```

## Support

If you encounter any issues:

1. Check Render logs for detailed error messages
2. Verify all environment variables are set correctly
3. Ensure database is accessible and migrations are applied
4. Review the seed script at `backend/prisma/seed.ts` for data details

---

**Note:** Once your database is seeded and the application is working, you may want to remove or secure this endpoint further for production use.