

# Complete Testing Guide for Contentra CMS

## Step 1: Reset and Seed Database

```
bash

# Clear cache and reset database
php artisan config:clear
php artisan cache:clear
php artisan route:clear

# Fresh migration with seeder
php artisan migrate:fresh --seed
```

### Expected Output:

 Roles, Permissions, and Test Users created successfully!

#### Test Credentials:

Super Admin: superadmin@contentra.test / password

Admin: admin@contentra.test / password

Editor: editor@contentra.test / password

Author: author@contentra.test / password

Viewer: viewer@contentra.test / password

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## Step 2: Test Web Authentication

### 2.1 Login Test

1. Visit `http://localhost:8000/login`
2. Login with: `admin@contentra.test` / `password`
3. Should redirect to `/home`
4. Visit `http://localhost:8000/admin/dashboard`
5. Should see dashboard with user counts

### 2.2 Permission Test

1. Logout and login as: `viewer@contentra.test` / `password`

2. Try to access: `http://localhost:8000/admin/roles/create`
  3. **Expected:** 403 Forbidden error (viewers can't create roles)
- 

## Step 3: Test API Authentication

### 3.1 Register New User

#### Request:

```
http

POST http://localhost:8000/api/register
Content-Type: application/json

{
  "name": "Test User",
  "email": "test@example.com",
  "password": "password123",
  "password_confirmation": "password123"
}
```

#### Expected Response (201):

```
json

{
  "message": "User registered successfully",
  "user": {
    "id": 6,
    "name": "Test User",
    "email": "test@example.com",
    "roles": [
      {
        "name": "viewer",
        "permissions": [...]
      }
    ]
  },
  "token": "1|xxxxxxxxxxxxxx"
}
```

## 3.2 Login

### Request:

http

POST http://localhost:8000/api/login

**Content-Type:** application/json

```
{  
  "email": "admin@contentra.test",  
  "password": "password"  
}
```

### Expected Response (200):

json

```
{  
  "message": "Login successful",  
  "user": {  
    "id": 2,  
    "name": "Admin User",  
    "email": "admin@contentra.test",  
    "roles": [...]  
  },  
  "token": "2|xxxxxxxxxxxxx"  
}
```



**SAVE THIS TOKEN** - You'll need it for subsequent requests!

## 3.3 Get Current User

### Request:

http

GET http://localhost:8000/api/user

**Authorization:** Bearer YOUR\_TOKEN\_HERE

### Expected Response (200):

json

```
{
  "user": {
    "id": 2,
    "name": "Admin User",
    "email": "admin@contentra.test",
    "roles": [
      {
        "name": "admin",
        "permissions": [...]
      }
    ]
  }
}
```

## Step 4: Test Permission Enforcement

### 4.1 Test WITH Admin Token (Should Work)

Get an admin token first:

```
http
POST http://localhost:8000/api/login
Content-Type: application/json

{
  "email": "admin@contentra.test",
  "password": "password"
}
```

Then try to view users:

```
http
GET http://localhost:8000/api/users
Authorization: Bearer ADMIN_TOKEN_HERE
```

**Expected:**  Returns list of users

### 4.2 Test WITH Viewer Token (Should Fail)

Get a viewer token:

http

POST http://localhost:8000/api/login

**Content-Type:** application/json

```
{  
  "email": "viewer@contentra.test",  
  "password": "password"  
}
```

Then try to view users:

http

GET http://localhost:8000/api/users

**Authorization:** Bearer VIEWER\_TOKEN\_HERE

### Expected Response (403):

json

```
{  
  "message": "Forbidden. You do not have permission to access this resource.",  
  "required_permission": "view-users"  
}
```

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## Step 5: Test All API Endpoints

### 5.1 Users API

#### List Users

http

GET http://localhost:8000/api/users

**Authorization:** Bearer ADMIN\_TOKEN

#### Create User

http

POST http://localhost:8000/api/users  
**Authorization:** Bearer ADMIN\_TOKEN  
**Content-Type:** application/json

```
{  
  "name": "New User",  
  "email": "newuser@test.com",  
  "password": "password123",  
  "roles": ["editor"]  
}
```

## Update User

http  
  
PUT http://localhost:8000/api/users/6  
**Authorization:** Bearer ADMIN\_TOKEN  
**Content-Type:** application/json

```
{  
  "name": "Updated Name",  
  "roles": ["author"]  
}
```

## Delete User

http  
  
DELETE http://localhost:8000/api/users/6  
**Authorization:** Bearer ADMIN\_TOKEN

## 5.2 Roles API

### List Roles

http  
  
GET http://localhost:8000/api/roles  
**Authorization:** Bearer ADMIN\_TOKEN

### Create Role

http

POST http://localhost:8000/api/roles

**Authorization:** Bearer ADMIN\_TOKEN

**Content-Type:** application/json

```
{  
  "name": "content-manager",  
  "permissions": ["view-content", "create-content", "edit-content"]  
}
```

## Update Role

http

PUT http://localhost:8000/api/roles/6

**Authorization:** Bearer ADMIN\_TOKEN

**Content-Type:** application/json

```
{  
  "name": "content-manager-updated",  
  "permissions": ["view-content", "create-content"]  
}
```

## Delete Role

http

DELETE http://localhost:8000/api/roles/6

**Authorization:** Bearer ADMIN\_TOKEN

## 5.3 Permissions API

### List Permissions

http

GET http://localhost:8000/api/permissions

**Authorization:** Bearer ADMIN\_TOKEN

### Create Permission

http

```
POST http://localhost:8000/api/permissions
```

```
Authorization: Bearer ADMIN_TOKEN
```

```
Content-Type: application/json
```

```
{
  "name": "custom-permission"
}
```

## Step 6: Permission Matrix Testing

Test each role's capabilities:

Endpoint	Super Admin	Admin	Editor	Author	Viewer
GET /api/users	✓	✓	✗	✗	✗
POST /api/users	✓	✓	✗	✗	✗
GET /api/roles	✓	✓	✗	✗	✗
POST /api/roles	✓	✓	✗	✗	✗
GET /api/permissions	✓	✓	✗	✗	✗

## Step 7: Logout Test

```
http
```

```
POST http://localhost:8000/api/logout
```

```
Authorization: Bearer YOUR_TOKEN
```

### Expected Response (200):

```
json
```

```
{
  "message": "Logged out successfully"
}
```



Then try to use the same token:

```
http

GET http://localhost:8000/api/user
Authorization: Bearer SAME_TOKEN
```

**Expected:** 401 Unauthenticated

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## Common Issues & Solutions

**Issue: "Unauthenticated" even with token**

**Solution:** Make sure you're using `Authorization: Bearer TOKEN` header

**Issue: "Permission not found"**

**Solution:** Run `php artisan cache:clear` and `php artisan config:clear`

**Issue: Permissions not working**

**Solution:**

```
bash

php artisan permission:cache-reset
php artisan config:clear
```

**Issue: Can't access admin panel**

**Solution:** Make sure your user has roles assigned with 'web' guard

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## Next Steps

Once all tests pass, you're ready for **Sprint 2: Content Modeling!** 🎉

This includes:

- Content Type Builder
- Dynamic field definitions
- Schema storage

- Content entry CRUD

Would you like me to proceed with Content Modeling implementation?