

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

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|xxxxxxxxxxxx"  
  }  
}
```

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|xxxxxxxxxxxxxx"  
}
```

 **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"
}
```

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

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

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?