# **Paramedic Skills Matrix - Deployment Guide**



# 🚨 Critical Deployment Fix for "No Content" Issue

The "no content" issue in deployment is primarily caused by incorrect environment variable configuration. Follow this guide to fix it.

## **Pre-Deployment Checklist**

### 1. Environment Variables (CRITICAL)

The most common cause of deployment failure is incorrect NEXTAUTH\_URL .

Wrong (causes "no content"):

```
NEXTAUTH_URL="http://localhost:3000"
```

Correct (for deployment):

```
NEXTAUTH_URL="https://your-actual-deployment-url.com"
```

### 2. Required Environment Variables

Copy .env.production to .env and update these values:

```
# Database (use your actual database URL)
DATABASE_URL="postgresql://username:password@host:port/database"
# NextAuth (MUST match your deployment URL)
NEXTAUTH_URL="https://your-deployment-url.com"
NEXTAUTH_SECRET="your-secure-random-secret"
# API Keys
ABACUSAI_API_KEY="your-abacusai-api-key"
GEMINI_API_KEY="your-gemini-api-key"
```

# Platform-Specific Deployment Instructions

## **Vercel Deployment**

- 1. Set Environment Variables in Vercel Dashboard:
  - Go to Project Settings → Environment Variables
  - Add all variables from .env.production
  - CRITICAL: Set NEXTAUTH\_URL to your Vercel domain (e.g., https://your-app.vercel.app)

#### 2. Deploy Command:

```
bash
npm run build
```

### **Netlify Deployment**

- 1. Set Environment Variables in Netlify Dashboard:
  - Go to Site Settings → Build & Deploy → Environment Variables
  - CRITICAL: Set NEXTAUTH\_URL to your Netlify domain

### Railway/Render Deployment

- 1. Set Environment Variables in Platform Dashboard
- 2. CRITICAL: Set NEXTAUTH\_URL to your platform's provided domain

### **Docker Deployment**

```
# Use the official Node.js image
FROM node:18-alpine
# Set working directory
WORKDIR /app
# Copy package files
COPY package*.json ./
COPY yarn.lock ./
# Install dependencies
RUN yarn install --frozen-lockfile
# Copy source code
COPY . .
# Generate Prisma client
RUN npx prisma generate
# Build the application
RUN npm run build
# Expose port
EXPOSE 3000
# Start the application
CMD ["npm", "start"]
```

# **X** Database Setup

### 1. Prisma Database Setup

```
# Generate Prisma client
npx prisma generate

# Run database migrations
npx prisma db push

# Seed the database (optional)
npx prisma db seed
```

#### 2. Database Connection

Ensure your DATABASE\_URL is accessible from your deployment platform:

- For local development: Use local PostgreSQL
- For production: Use cloud database (PostgreSQL)



# Troubleshooting Common Issues

### Issue 1: "No Content" or Blank Page

Cause: Incorrect NEXTAUTH URL

Fix: Ensure NEXTAUTH\_URL matches your deployment URL exactly

#### **Issue 2: Authentication Errors**

Cause: Missing or incorrect NEXTAUTH\_SECRET

Fix: Generate a secure secret: openssl rand -base64 32

#### **Issue 3: Database Connection Errors**

Cause: Incorrect DATABASE\_URL or network issues

Fix: Verify database URL and ensure it's accessible from deployment platform

### **Issue 4: API Endpoint Errors**

Cause: Missing API keys

Fix: Ensure ABACUSAI\_API\_KEY and GEMINI\_API\_KEY are set



# **Testing Deployment Locally**

Test your production configuration locally:

```
# Set production environment
export NODE_ENV=production
# Use production environment file
cp .env.production .env
# Update NEXTAUTH_URL to localhost for testing
# NEXTAUTH_URL="http://localhost:3000"
# Build and start
npm run build
npm start
```

# **III** Performance Optimization

### 1. Enable Compression

The application includes built-in compression for better performance.

### 2. Static File Optimization

Images are set to unoptimized mode for broader deployment compatibility.

### 3. Bundle Analysis

# Analyze bundle size npm run build

## Security Considerations

#### 1. Environment Variables

- Never commit .env files to version control
- Use secure, randomly generated secrets
- Rotate API keys regularly

### 2. Database Security

- · Use connection pooling
- Enable SSL connections
- Restrict database access by IP

### 3. Application Security

- HTTPS is enforced in production
- · Secure headers are configured
- Authentication is required for protected routes

# **Final Deployment Verification**

After deployment, verify these work:

- [ ] Homepage loads without errors
- [ ] Sign-in page is accessible
- -[] Authentication flow works
- [ ] Student and lecturer dashboards load
- [ ] API endpoints respond correctly
- -[] Database connections are stable

# SSS Emergency Recovery

If deployment fails:

- 1. Check deployment platform logs
- 2. Verify all environment variables are set
- 3. Ensure database is accessible
- 4. Test build locally first
- 5. Use .env.example as reference

# Support

For deployment issues:

- 1. Check this guide first
- 2. Verify environment variable configuration
- 3. Test locally with production settings
- 4. Check platform-specific documentation