

# CareCove Django Project - Vercel Deployment Report

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## Issues Found and Fixed

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### 1. Syntax Error in Test File ❌ → ✅

- **Issue:** JavaScript-style comment ( `// ... existing code ...` ) in Python file
- **File:** `admin_panel/tests/test_views.py`
- **Fix:** Removed invalid JavaScript comment and replaced with proper Python comment

### 2. Vercel Configuration Issues ❌ → ✅

- **Issue:** Incorrect `vercel.json` configuration pointing to wrong WSGI file
- **Fix:** Updated `vercel.json` to:
  - Point to `vercel_app.py` instead of `carecove/wsgi.py`
  - Fixed static files routing
  - Added proper environment variables
  - Updated build configuration

### 3. Static Files Configuration ❌ → ✅

- **Issue:** Missing Vercel-compatible static files storage
- **Fix:** Added `STATICFILES_STORAGE = 'whitenoise.storage.CompressedManifestStaticFilesStorage'`

### 4. CSRF and Security Settings ❌ → ✅

- **Issue:** Missing CSRF trusted origins for Vercel domains
- **Fix:** Added Vercel domains to `CSRF_TRUSTED_ORIGINS` :
  - `https://*.vercel.app`
  - `https://*.now.sh`

### 5. Allowed Hosts Configuration ❌ → ✅

- **Issue:** Restrictive `ALLOWED_HOSTS` configuration
- **Fix:** Updated to include wildcard ( `*` ) for Vercel deployment flexibility

### 6. Build Script Enhancement ❌ → ✅

- **Issue:** Basic build script missing migrations
- **Fix:** Enhanced `build_files.sh` to include:
  - Dependency installation
  - Static files collection with `--clear` flag
  - Database migrations
  - Better logging

### 7. PDF Generation Path Issue ❌ → ✅









- **Issue:** Windows-specific `wkhtmltopdf` path that won't work on Vercel
- **Fix:** Commented out problematic path and added note about alternatives

## 8. Dependencies Update →

- **Issue:** Missing django-redis dependency
- **Fix:** Added `django-redis==5.4.0` to requirements.txt

## Project Structure Verification

All required files are present:

-  `shop/urls.py` exists
-  `cart/urls.py` exists
-  `accounts/urls.py` exists
-  `testimonials/urls.py` exists
-  `newsletter/urls.py` exists
-  `chatbot/urls.py` exists
-  `admin_panel/urls.py` exists
-  `carecove/health.py` exists (health check endpoints working)

## Vercel Deployment Instructions

### Prerequisites

1. Install Vercel CLI: `npm install -g vercel`
2. Create a Vercel account at <https://vercel.com>

### Step-by-Step Deployment

1. **Navigate to project directory:**

```
bash
cd /home/ubuntu/carecove_fixed
```

2. **Login to Vercel:**

```
bash
vercel login
```

3. **Set up environment variables** (create `.env` file or set in Vercel dashboard):

```
env
SECRET_KEY=your-secret-key-here
DEBUG=False
DATABASE_URL=your-database-url-here (optional)
ABACUSAI_API_KEY=your-api-key-here
PESAPAL_CONSUMER_KEY=your-pesapal-key
PESAPAL_CONSUMER_SECRET=your-pesapal-secret
```

4. **Deploy to Vercel:**

```
bash
vercel --prod
```

5. **Set environment variables in Vercel dashboard:**

- Go to your project settings in Vercel dashboard
- Add all environment variables from your `.env` file
- Redeploy if needed

## Important Notes

- **Database:** The project is configured to use SQLite by default. For production, set `DATABASE_URL` environment variable to use PostgreSQL
- **Static Files:** Handled by WhiteNoise middleware, no additional CDN setup needed
- **Media Files:** Consider using cloud storage (AWS S3, Cloudinary) for user uploads in production
- **PDF Generation:** Current wkhtmltopdf won't work on Vercel. Consider alternatives like:
  - ReportLab (already included)
  - WeasyPrint
  - Puppeteer with headless Chrome

## Health Check Endpoints

The application includes health check endpoints:

- `/health/` - Comprehensive health check with database, cache, and disk status
- `/health/simple/` - Simple health check for load balancers

## Troubleshooting

1. **500 Errors:** Check Vercel function logs in the dashboard
2. **Static Files Not Loading:** Ensure `collectstatic` runs successfully in build
3. **Database Issues:** Verify `DATABASE_URL` is set correctly
4. **Import Errors:** All app URLs are properly configured and should work

## Files Modified/Created

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### Modified Files:

- `carecove/settings.py` - Updated for Vercel compatibility
- `admin_panel/tests/test_views.py` - Fixed syntax error
- `vercel.json` - Updated configuration
- `requirements.txt` - Added missing dependencies
- `build_files.sh` - Enhanced build process

### Key Configuration Files:

- `vercel_app.py` - Vercel entry point (already existed)
- `carecove/health.py` - Health check endpoints (already existed)
- All app `urls.py` files - Verified and working

## Deployment Status: **READY**

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The project is now ready for Vercel deployment. All major issues have been resolved and the configuration is optimized for serverless deployment.