Vercel Build Fix - Database Connection Issue

Problem

The Vercel build was failing with error:

```
Error: P1001: Can't reach database server at `db-5ebca9571.db003.hosteddb.reai.io:
5432`
```

Root Cause

The build command in `package.json` included `prisma db push --accept-data-loss`, which attempted to connect to the database during the build process. Vercel's build environment cannot reach external databases during the build phase.

Solution Applied

Changed build command from:

```
"build": "prisma generate && prisma db push --accept-data-loss && next build"
```

To:

```
"build": "prisma generate && next build"
```

What This Means

1. **During Build**: Vercel will now only generate the Prisma client (type definitions) without connecting to the database
2. **During Runtime**: Your application will connect to the database when it actually runs
3. **Database Schema**: Must be synced manually before deployment (already done)

Vercel Environment Variables Required

Make sure these environment variables are set in your Vercel project settings:

Required Variables

1. **DATABASE_URL**
   - Value: Your PostgreSQL connection string
   - Format: `postgresql://user:password@db-5ebca9571.db003.hosteddb.reai.io:5432/5ebca9571?schema=public`

2. **NEXTAUTH_SECRET**
   - Value: Your NextAuth secret key
   - Should be a long random string (minimum 32 characters)

3. **NEXTAUTH_URL** (Vercel sets this automatically, but you can override)
   - Value: Your deployed URL (e.g., `https://portfolio-intelligence.co.uk`)

How to Set Environment Variables in Vercel

1. Go to your Vercel dashboard
2. Select your project
3. Navigate to **Settings → Environment Variables**
4. Add each variable with appropriate values
5. Make sure to add them for **Production**, **Preview**, and **Development** environments

Database Schema Management

Important: Database changes should be made BEFORE deploying to Vercel

For local development:

```
cd nextjs_space
yarn prisma db push
```

For production database:
- Run the same command locally with your production DATABASE_URL
- Or use Prisma Migrate for better version control:

```
yarn prisma migrate dev --name description_of_changes
yarn prisma migrate deploy  # For production
```

Testing the Fix

The fix has been pushed to GitHub. Vercel should automatically:
1. Detect the new commit
2. Trigger a new build
3. Successfully build without database connection errors

Status

✅ Build command updated
✅ Changes committed to Git
✅ Changes pushed to GitHub (commit: e6cadc3)

Next Steps

1. ✅ **DONE**: Build command fixed and pushed to GitHub
2. ⏳ **PENDING**: Verify environment variables are set in Vercel
3. ⏳ **PENDING**: Vercel will automatically rebuild from the latest commit
4. ⏳ **PENDING**: Verify the deployment succeeds

Troubleshooting

If Build Still Fails

1. Check that environment variables are properly set in Vercel

2. Ensure DATABASE_URL uses SSL parameters if required

3. Verify the database is accessible from the internet

If Runtime Errors Occur

1. Check that DATABASE_URL is correct in environment variables

2. Verify database schema is up to date

3. Check application logs in Vercel dashboard

Support

If you encounter any issues after this fix:

1. Check Vercel build logs for specific error messages

2. Verify all environment variables are set correctly

3. Ensure your database allows connections from Vercel's IP ranges