Deployment Checklist

Pre-Deployment Steps

1. Database Preparation ✓ COMPLETED

- [x] Prisma schema is up to date
- [x] Migrations are created and tested
- [x] Database connection is verified
- [x] Production DATABASE_URL is configured

2. Environment Variables

Ensure these are set in Vercel:

- [ ] `DATABASE_URL` - PostgreSQL connection string
- [ ] `NEXTAUTH_SECRET` - Authentication secret
- [ ] `NEXTAUTH_URL` - Production URL (https://yourdomain.com)
- [ ] `GOOGLE_CLIENT_ID` - Google OAuth (if using)
- [ ] `GOOGLE_CLIENT_SECRET` - Google OAuth (if using)
- [ ] Any other application-specific variables

3. Code Preparation

- [ ] All code changes are committed
- [ ] Tests are passing
- [ ] No console.log statements in production code
- [ ] Error handling is implemented

Deployment Process

Step 1: Deploy Database Migrations

IMPORTANT: Always deploy migrations BEFORE deploying code!

```
# From your local machine with access to production DATABASE_URL
npm run migrate:deploy
```

Expected output:

```
2 migrations found in prisma/migrations
No pending migrations to apply.
```

Step 2: Verify Database

```
node verify_database.js
```

Expected output:

```
=== Database Verification ===
✓ Database connection successful
✓ Found 21 tables
✓ Found 2 applied migrations
✓ All checks passed!
```

Step 3: Deploy to Vercel

```
git push origin deployment-fix-verified
```

Or using Vercel CLI:

```
vercel --prod
```

Step 4: Post-Deployment Verification

1. **Check deployment logs** in Vercel dashboard
2. **Test the application**:
   - [ ] Homepage loads
   - [ ] Authentication works
   - [ ] Database queries work
   - [ ] No console errors
3. **Monitor for errors** in the first few minutes

Issues Resolved

✅ Redirect Loop Issue

Status: FIXED
Solution: Removed problematic middleware that was causing infinite redirects

✅ Database Tables Missing

Status: FIXED
Solution: Applied Prisma migrations to production database

Current Status

- **Branch**: deployment-fix-verified
- **Database**: Fully configured with 21 tables
- **Migrations**: 2 migrations applied
- 20251020102014_init
- 20251020102138_update_mode_schema
- **Prisma Client**: Generated and ready
- **Build Configuration**: Updated with proper scripts

Rollback Plan

If something goes wrong:

1. Quick Rollback (Vercel)

```
# In Vercel dashboard, go to deployments and revert to previous version
```

2. Database Rollback (if needed)

⚠️ **Use with extreme caution!**

```
# This should only be done if you have a backup
npx prisma migrate resolve --rolled-back "migration_name"
# Then restore from backup
```

Monitoring

After deployment, monitor:
1. **Vercel Logs**: Check for errors
2. **Database Connections**: Monitor active connections
3. **Application Performance**: Response times
4. **Error Rates**: Track 500/400 errors

Support Contacts

- Development Team: [Your contact info]
- Database Admin: [DBA contact info]
- Hosting (Vercel): https://vercel.com/support

Notes

- Middleware was removed to fix redirect loops
- Database tables were already created but needed migration tracking
- Used `prisma migrate resolve --applied` to baseline existing tables
- All verification tests passed successfully

Deployment Date: October 23, 2025
Deployed By: [Your name]
Status: ✅ Ready for Production