






AI Calendar App - Complete Deployment Guide






ENHANCEMENT SUMMARY

Your AI Calendar application now includes **robust date validation constraints**:

Date Validation Rules:

-  **CREATE Operations**: Blocked for past dates with clear error messages
-  **UPDATE Operations**: Blocked for past dates with clear error messages
-  **DELETE Operations**: Blocked for past dates with clear error messages
-  **READ/QUERY Operations**: Allowed for ALL dates (past, present, future)
-  **Future Date Operations**: Work normally for all CRUD operations

Testing Completed:

-  Past date blocking (July 1st, 2025)
-  Future date operations (July 3rd, 2025)
-  All existing functionality preserved
-  Clear, user-friendly error messages
-  Real-time calendar synchronization

DEPLOYMENT STEPS

Phase 1: GitHub Repository Setup

Since the automated GitHub push encountered repository configuration issues, please follow these manual steps:

Option A: Create New Repository

1. Go to [GitHub](https://github.com) (<https://github.com>) and log in
2. Click "New Repository" (green button)
3. Repository name: `ai-calendar-app` (or your preferred name)
4. Set to Public or Private as desired
5. **Do NOT** initialize with README, .gitignore, or license
6. Click "Create repository"

Option B: Use Existing Repository

If you have a specific repository named "git-bonda108", ensure it exists and is accessible with the provided token.

Push Code to GitHub:

```
# Navigate to project directory
cd /home/ubuntu/ai_calendar_app

# Remove existing remote if any
git remote remove origin

# Add your repository (replace USERNAME/REPOSITORY with your actual values)
git remote add origin https://YOUR_TOKEN@github.com/USERNAME/REPOSITORY.git

# Push to GitHub
git push -u origin master
```

Phase 2: Vercel Deployment

2.1 Connect to Vercel

1. Go to [Vercel](https://vercel.com) (<https://vercel.com>) and sign in
2. Click “New Project”
3. Import your GitHub repository
4. Select the repository you just created

2.2 Configure Build Settings

```
Framework Preset: Next.js
Root Directory: ./app
Build Command: yarn build
Output Directory: .next
Install Command: yarn install
```

2.3 Environment Variables Setup

In Vercel dashboard, add these environment variables:

```
DATABASE_URL=postgresql://role_c77ca3e49:rprfBEEpRvkmaGfEGbKqKw5VggmsPm3q@db-
c77ca3e49.db001.hosteddb.rea1.io:5432/c77ca3e49

ABACUSAI_API_KEY=dc0c772dfbd449bbb3d31fa8d0d31ec3

NEXTAUTH_URL=https://your-domain.vercel.app
NEXTAUTH_SECRET=your-nextauth-secret-here
```

To generate NEXTAUTH_SECRET:

```
openssl rand -base64 32
```

2.4 Deploy

1. Click “Deploy”
2. Wait for build to complete
3. Your app will be live at `https://your-project-name.vercel.app`

Phase 3: Custom Domain Setup

3.1 Add Custom Domain in Vercel

1. Go to your project dashboard in Vercel
2. Click “Settings” → “Domains”
3. Add your custom domain (e.g., `mycalendar.com`)

3.2 Configure Nameservers

Point your domain’s nameservers to your domain provider’s DNS settings:

For Cloudflare:

```
Type: CNAME
Name: @ (or your subdomain)
Value: cname.vercel-dns.com
```

For Other Providers:

```
Type: A
Name: @
Value: 76.76.19.61

Type: CNAME
Name: www
Value: cname.vercel-dns.com
```

3.3 Update Environment Variables

Update `NEXTAUTH_URL` in Vercel to your custom domain:

```
NEXTAUTH_URL=https://your-custom-domain.com
```

Phase 4: SSL Certificate

Vercel automatically provisions SSL certificates. Ensure:

- ☒ Certificate is “Active” in Vercel dashboard
- ☒ HTTPS redirect is enabled
- ☒ Domain propagation is complete (may take 24-48 hours)



TROUBLESHOOTING

Build Issues

```
# If build fails, try locally first:
cd /home/ubuntu/ai_calendar_app/app
yarn install
yarn build
```

Database Connection Issues

- Ensure `DATABASE_URL` is exactly as provided

- Check if database service is running
- Verify network connectivity from Vercel

Environment Variables

- Double-check all environment variables are set in Vercel
- Ensure no trailing spaces or special characters
- Redeploy after changing environment variables

Domain Issues

- DNS propagation can take 24-48 hours
- Use [DNS Checker](https://dnschecker.org) (<https://dnschecker.org>) to verify propagation
- Ensure nameservers are correctly configured

API Issues

- Verify ABACUSAI_API_KEY is correct
- Check API rate limits
- Ensure NEXTAUTH_URL matches your domain exactly

POST-DEPLOYMENT TESTING

After deployment, test these scenarios:

Date Validation Testing:

1. Past Date Blocking:

- Try: "book a session for yesterday" → Should fail
- Try: "delete session from last week" → Should fail
- Try: "update session from yesterday" → Should fail






2. Future Date Operations:

- Try: "book a session for tomorrow at 2 PM" → Should work
- Try: "update tomorrow's session to 3 PM" → Should work
- Try: "delete session from next week" → Should work

3. Query Operations:







- Try: "show me last week's calendar" → Should work
- Try: "show me next week's calendar" → Should work

Performance Testing:

-  Page load time < 3 seconds
-  Chat responses < 2 seconds
-  Calendar updates in real-time
-  Mobile responsiveness
-  SSL certificate active

SUPPORT

Application Features:

-  **Smart AI Scheduling:** Book sessions with natural language
-  **Date Validation:** Prevents past date operations
-  **Real-time Calendar:** Live synchronization
-  **CRUD Operations:** Create, Read, Update, Delete
-  **Responsive Design:** Works on all devices
-  **Professional UI:** Modern and intuitive interface







Quick Commands for Production:

```
# Redeploy from Vercel dashboard or:
git add .
git commit -m "Update: feature description"
git push origin master
# Vercel auto-deploys on push
```

Monitoring:

- Monitor deployment status in Vercel dashboard
- Check function logs for any runtime errors
- Use Vercel Analytics for performance insights

SUCCESS CRITERIA ACHIEVED

-  **Date constraints implemented:** No past operations except read
-  **All existing functionality preserved:** CRUD operations work perfectly
-  **Production-ready code:** Built successfully without errors
-  **Comprehensive testing completed:** All scenarios validated
-  **Deployment instructions provided:** Step-by-step guide ready
-  **Environment configured:** API keys and database ready

Your AI Calendar application is now ready for production deployment!

Generated on: July 3, 2025

Application Status:  Production Ready