



TreeHub Deployment Checklist

Your TreeHub repository is now professionally organized and deployment-ready! Follow this checklist to deploy to Vercel and connect to your treehubusa.com domain.



Repository Status

✓ Professional Structure Complete

- ✓ Comprehensive README.md with features and setup instructions
- ✓ Production-ready .gitignore for Next.js
- ✓ Environment variable template (.env.example)
- ✓ Vercel deployment configuration (vercel.json)
- ✓ MIT License and contributing guidelines
- ✓ Comprehensive documentation (API, Architecture, Features, Deployment)
- ✓ GitHub workflows for CI/CD
- ✓ Professional issue and PR templates
- ✓ Updated package.json with proper metadata
- ✓ Build verification completed successfully



Pre-Deployment Setup

1. GitHub Repository Setup

```
# Push to your GitHub repository
git remote add origin https://github.com/yourusername/treehub-mobile-platform.git
git branch -M main
git push -u origin main
```

2. Environment Variables Setup

Create these environment variables in Vercel dashboard:

Required:

```
DATABASE_URL=postgresql://user:pass@host:5432/treehub
NEXTAUTH_SECRET=your-32-character-secret-key
NEXTAUTH_URL=https://treehubusa.com
```

Recommended:

```
GOOGLE_MAPS_API_KEY=your-google-maps-key
STRIPE_SECRET_KEY=your-stripe-secret-key
STRIPE_PUBLISHABLE_KEY=your-stripe-public-key
SMTP_HOST=your-smtp-host
SMTP_USER=your-email@domain.com
SMTP_PASS=your-email-password
AWS_ACCESS_KEY_ID=your-aws-access-key
AWS_SECRET_ACCESS_KEY=your-aws-secret-key
AWS_S3_BUCKET=treehub-uploads
```

3. Database Setup

Set up your production PostgreSQL database:

- Use a managed service (Vercel Postgres, Supabase, or AWS RDS)
- Run migrations: `npx prisma migrate deploy`
- Generate client: `npx prisma generate`



Vercel Deployment Steps

Step 1: Connect to Vercel

1. Go to vercel.com (<https://vercel.com>) and sign in
2. Click “New Project”
3. Import your TreeHub repository from GitHub
4. Vercel will auto-detect Next.js settings

Step 2: Configure Build Settings

Vercel should automatically detect:

- **Framework Preset:** Next.js
- **Build Command:** `cd app && npm run build`
- **Output Directory:** `app/.next`
- **Install Command:** `cd app && npm install --legacy-peer-deps`

Step 3: Add Environment Variables

In Vercel dashboard:

1. Go to Project Settings → Environment Variables
2. Add all required environment variables
3. Set them for Production, Preview, and Development environments

Step 4: Deploy

1. Click “Deploy”
2. Wait for build to complete
3. Test the deployment URL

Step 5: Custom Domain Setup

1. Go to Project Settings → Domains
2. Add `treehubusa.com` and `www.treehubusa.com`
3. Configure DNS records as instructed by Vercel
4. SSL certificate will be automatically provisioned



Post-Deployment Verification

Test Core Functionality

- [] Homepage loads correctly
- [] Authentication system works
- [] Dashboard is accessible
- [] Mobile responsiveness verified
- [] API endpoints respond correctly
- [] Database connections work

- ☐ File uploads function (if configured)

Performance Checks

- ☐ Core Web Vitals are good
- ☐ Page load times under 3 seconds
- ☐ Images are optimized
- ☐ JavaScript bundles are reasonable size

Security Verification

- ☐ HTTPS is enforced
- ☐ Environment variables are secure
- ☐ Authentication is working
- ☐ API endpoints are protected



Monitoring Setup

Analytics & Monitoring

1. **Vercel Analytics:** Enable in project settings
2. **Error Tracking:** Configure Sentry (optional)
3. **Performance Monitoring:** Set up Core Web Vitals tracking
4. **Uptime Monitoring:** Configure uptime checks

Backup & Recovery

1. **Database Backups:** Set up automated backups
2. **Code Repository:** Ensure GitHub is your source of truth
3. **Environment Variables:** Securely backup configuration



Continuous Deployment

Your repository is configured with GitHub Actions for:

- **Automated Testing:** Runs on every push and PR
- **Code Quality:** ESLint and TypeScript checking
- **Security Scanning:** Dependency vulnerability checks
- **Automatic Deployment:** Deploys to Vercel on main branch pushes



Support Resources

Documentation

- **README.md:** Complete setup and feature guide
- **docs/DEPLOYMENT.md:** Detailed deployment instructions
- **docs/API.md:** API documentation
- **docs/ARCHITECTURE.md:** System architecture overview
- **docs/FEATURES.md:** Comprehensive feature documentation

Getting Help

- **GitHub Issues:** Report bugs and request features
- **GitHub Discussions:** Community support and questions

- **Documentation:** Comprehensive guides in `/docs` folder







Next Steps

After successful deployment:

1. **Test thoroughly** on mobile devices
2. **Set up monitoring** and analytics
3. **Configure backups** for database and files
4. **Train your team** on the new system
5. **Migrate existing data** if needed
6. **Set up integrations** (accounting, payment processing)
7. **Customize branding** and settings
8. **Launch to your clients** and team

Success Metrics

Your TreeHub deployment is successful when:

-  Application loads quickly on all devices
-  All core features work as expected
-  Mobile experience is smooth and intuitive
-  Data is secure and properly backed up
-  Team can efficiently manage tree care operations
-  Clients have a professional experience

Congratulations! Your TreeHub platform is now professionally organized and ready for deployment. The repository structure follows industry best practices and will scale with your business needs.

Repository Location: `/home/ubuntu/treehub-mobile-platform`

Build Status:  Verified and Ready

Deployment Target: Vercel → treehubusa.com

Happy deploying! 