Deployment Guide - TikTok Video Downloader

This guide covers deploying the TikTok Video Downloader to various platforms, with special focus on Vercel deployment.

Vercel Deployment (Recommended)

This project has been specifically optimized for Vercel deployment with all dependency conflicts resolved.

Prerequisites

- · GitHub account
- Vercel account (free tier available)
- Node.js 18+ locally (for testing)

Step 1: Prepare Your Repository

1. Ensure the project builds locally:

```
bash
  cd /path/to/video_downloader_website/app
  npm install --legacy-peer-deps
  npm run build
```

2. Push to GitHub:

```
bash
  git init
  git add .
  git commit -m "Initial commit - Vercel ready"
  git remote add origin https://github.com/yourusername/tiktok-downloader.git
  git push -u origin main
```

Step 2: Deploy to Vercel

- 1. Connect to Vercel:
 - Go to vercel.com (https://vercel.com)
 - Sign in with your GitHub account
 - Click "New Project"
 - Import your repository

2. Configure Build Settings:

- Framework Preset: Next.js
- Root Directory: app (important!)
- Build Command: npm run build
- Output Directory: .next
- Install Command: npm install --legacy-peer-deps

3. Environment Variables:

Add these in the Vercel dashboard:

4. Deploy:

- Click "Deploy"
- Wait for the build to complete (should succeed without errors)
- Your app will be live at https://your-app.vercel.app

Step 3: Verify Deployment

Test these URLs after deployment:

- https://your-app.vercel.app Main page
- https://your-app.vercel.app/api/download API endpoint
- https://your-app.vercel.app/sitemap.xml SEO sitemap
- https://your-app.vercel.app/robots.txt Robots file

Build Configuration Details

This project includes several optimizations for successful deployment:

Package.json Optimizations

- · Compatible dependency versions
- Proper Next.js 14 configuration
- · Legacy peer deps support for complex dependencies

Vercel.json Configuration

```
"version": 2,
  "buildCommand": "npm run build",
  "outputDirectory": ".next",
  "installCommand": "npm install --legacy-peer-deps",
  "framework": "nextjs"
}
```

Fixed Issues

- · Framer Motion version compatibility
- · Dependency conflicts resolved
- · TypeScript compilation errors fixed
- · Build process optimized
- · API routes properly configured

Post-Deployment Checklist

1. Functionality Testing

- [] Homepage loads without errors
- [] Video download form is functional
- [] API endpoint /api/download responds correctly
- [] Mobile responsiveness works
- [] All animations and interactions work

2. Performance Verification

• [] Page load speed < 3 seconds

- [] Core Web Vitals are good
- [] Images load properly
- [] No console errors

Troubleshooting

Common Build Issues

1. Dependency Conflicts:

```
bash
    # Solution: Use legacy peer deps
    npm install --legacy-peer-deps
```

2. Build Failures:

```
bash
  # Clean build
  rm -rf .next node_modules
  npm install --legacy-peer-deps
  npm run build
```

Runtime Issues

1. 404 Errors:

- Verify the root directory is set to app in deployment settings
- Check that all files are properly committed to Git

2. API Errors:

- Verify environment variables are set
- Check API route file structure

Success!

Once deployed successfully, your TikTok Video Downloader will be:

- Live and accessible worldwide
- Optimized for performance
- SEO-friendly
- Mobile responsive
- Ready for monetization

Your deployment is now complete and ready for users!