

Memento Mori - Deployment Guide



Overview

This guide provides step-by-step instructions for deploying the Memento Mori mortality calculator application to Vercel or Netlify. The application is a Next.js 15 app with TypeScript and Tailwind CSS.



Quick Deploy Options

Option 1: Vercel Deployment (Recommended for Next.js)

Prerequisites

- GitHub, GitLab, or Bitbucket account
- Vercel account (free tier available)

Method A: Deploy from Git Repository

1. Upload to Git Repository

- Create a new repository on GitHub/GitLab/Bitbucket
- Upload all files from this package to the repository
- Ensure the `app/` directory is the root of your repository

2. Deploy on Vercel

- Go to vercel.com (<https://vercel.com>) and sign in
- Click “New Project”
- Import your Git repository
- Vercel will auto-detect it’s a Next.js project
- **Important:** Set the root directory to `app/` if your repository structure includes the outer folder
- Configure build settings:
 - **Build Command:** `npm run build`
 - **Output Directory:** `.next` (auto-detected)
 - **Install Command:** `npm install`
 - Click “Deploy”

Method B: Deploy via Vercel CLI

1. Install Vercel CLI

```
bash
npm i -g vercel
```

2. Navigate to app directory and deploy

```
bash
cd app/
vercel
```

- Follow the prompts
- Choose “yes” when asked if you want to deploy
- Select your scope/team
- Link to existing project or create new one

Option 2: Netlify Deployment

Method A: Drag & Drop Deployment

1. Build the application locally

```
bash
cd app/
npm install
npm run build
```

2. Deploy to Netlify

- Go to netlify.com (<https://netlify.com>) and sign in
- Drag and drop the `app/.next` folder to the deploy area
- **Note:** This method requires manual updates for each deployment

Method B: Git-based Deployment

1. Upload to Git Repository

- Create a new repository on GitHub/GitLab/Bitbucket
- Upload all files from this package
- Ensure the `app/` directory structure is maintained

2. Deploy on Netlify

- Go to netlify.com (<https://netlify.com>) and sign in
- Click “New site from Git”
- Connect your Git provider and select the repository
- Configure build settings:
 - **Base directory:** `app/`
 - **Build command:** `npm run build`
 - **Publish directory:** `app/.next`
 - Click “Deploy site”

Method C: Netlify CLI

1. Install Netlify CLI

```
bash
npm install -g netlify-cli
```

2. Build and deploy

```
bash
cd app/
npm install
npm run build
netlify deploy --prod --dir=.next
```



Configuration Details

Build Settings Summary

- **Framework:** Next.js
- **Node.js Version:** 18.x or higher
- **Build Command:** `npm run build`
- **Output Directory:** `.next`
- **Install Command:** `npm install`

Environment Variables

This application doesn't require any environment variables for basic functionality. All calculations are performed client-side.

Dependencies

The application uses the following key dependencies:

- Next.js 15.4.6
- React 19.1.0
- TypeScript 5.x
- Tailwind CSS 4.x



Troubleshooting

Common Issues and Solutions

1. Build Fails with “Module not found”

Solution: Ensure all dependencies are installed

```
cd app/  
rm -rf node_modules package-lock.json  
npm install  
npm run build
```

2. Vercel: “No Output Directory”

Solution: Ensure the root directory is set correctly

- In Vercel dashboard, go to Project Settings → General
- Set “Root Directory” to `app/` if needed

3. Netlify: “Build Failed”

Solution: Check build settings

- Base directory: `app/`
- Build command: `npm run build`
- Publish directory: `app/.next`

4. TypeScript Errors During Build

Solution: The project is configured with strict TypeScript. If you encounter type errors:

```
cd app/  
npm run lint
```

Fix any reported issues before deploying.

5. Tailwind CSS Not Loading

Solution: Ensure PostCSS configuration is correct

- Check that `postcss.config.mjs` exists in the app directory
- Verify `globals.css` imports Tailwind directives

6. Large Bundle Size Warning

Solution: This is normal for the mortality calculator with all its statistical data. The app is optimized for performance with:

- Client-side rendering for calculations
- Efficient component structure
- Minimal external dependencies

Performance Optimization

The application is already optimized with:

- Next.js automatic code splitting
- Client-side calculations (no server load)
- Responsive design for all devices
- Local storage for scenario persistence



Post-Deployment Verification

After deployment, verify the following features work correctly:

1. **Homepage loads** with mortality calculator form
2. **Form submission** calculates and displays results
3. **Scenario saving** works (check browser localStorage)
4. **Navigation** between pages (About, Compare, Resources)
5. **Responsive design** on mobile devices
6. **Compare scenarios** functionality
7. **Resources page** loads with mental health resources



Useful Links

- [Next.js Deployment Documentation](https://nextjs.org/docs/deployment) (https://nextjs.org/docs/deployment)
- [Vercel Documentation](https://vercel.com/docs) (https://vercel.com/docs)
- [Netlify Documentation](https://docs.netlify.com/) (https://docs.netlify.com/)



Support

If you encounter issues not covered in this guide:

1. Check the build logs in your deployment platform
 2. Verify all files are uploaded correctly
 3. Ensure Node.js version compatibility (18.x+)
 4. Review the troubleshooting section above
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Estimated Deployment Time: 5-10 minutes

Recommended Platform: Vercel (optimized for Next.js)