

Vercel Deployment Configuration Fix

Issue Identified

The SafePlay application was failing to deploy on Vercel with the error:

```
Error: The file "/vercel/path0/app/.next/routes-manifest.json" couldn't be found.
```

Root Cause

The issue was in the `next.config.js` file where the `output` configuration was set to `process.env.NEXT_OUTPUT_MODE` without a default value. When this environment variable was undefined, Next.js failed to generate the required manifest files, including `routes-manifest.json`.

Solution Applied

1. Updated `vercel.json` Configuration

Added proper environment variable configuration to ensure `NEXT_OUTPUT_MODE` is set to an empty string:

```
{
  "buildCommand": "npm run prisma:generate && npm run build",
  "installCommand": "npm install --legacy-peer-deps",
  "framework": "nextjs",
  "env": {
    "ENABLE_EXPERIMENTAL_COREPACK": "0",
    "NPM_CONFIG_LEGACY_PEER_DEPS": "true",
    "NEXT_OUTPUT_MODE": "",
    "NEXT_DIST_DIR": ".next"
  },
  "functions": {
    "app/api/**/*.ts": {
      "runtime": "nodejs18.x"
    }
  },
  "regions": ["iad1"],
  "cleanUrls": true,
  "trailingSlash": false
}
```

2. Key Changes Made

- Set `NEXT_OUTPUT_MODE` to empty string instead of undefined
- Added proper function runtime configuration for API routes
- Configured deployment region and clean URLs
- Added build output directory specification

3. Verification Results

After the fix:

- `routes-manifest.json` is now generated (12,562 bytes)
- All required manifest files are present:
- `app-build-manifest.json`
- `app-path-routes-manifest.json`
- `build-manifest.json`
- `images-manifest.json`
- `prerender-manifest.json`
- `routes-manifest.json`
- All 60 static pages generated successfully
- All API routes properly configured

Files Generated Successfully

```
-rw-r--r--  app-build-manifest.json      (31,001 bytes)
-rw-r--r--  app-path-routes-manifest.json (10,407 bytes)
-rw-r--r--  build-manifest.json          (969 bytes)
-rw-r--r--  images-manifest.json         (510 bytes)
-rw-r--r--  prerender-manifest.json      (13,083 bytes)
-rw-r--r--  routes-manifest.json         (12,562 bytes)
```

Deployment Status

READY FOR DEPLOYMENT

The application now builds successfully and generates all required files for Vercel deployment. The `routes-manifest.json` error has been resolved.

Next Steps for Deployment

1. Commit all changes to git repository
2. Push to main branch
3. Deploy via Vercel dashboard or CLI
4. Configure environment variables in Vercel dashboard:
 - Database connection strings
 - Authentication secrets
 - AWS credentials
 - Stripe keys
 - Staging password

Build Command Verification

The build process now works correctly with:

```
npm run prisma:generate && npm run build
```

All 60 pages are generated successfully including both static and dynamic routes.