

Health Food Invoice Processor - Deployment Guide

Current Status: DEPLOYMENT WORKING

After thorough investigation on July 14, 2025, the deployed version at `https://13a040b497.preview.abacusai.app/` is **fully functional** with all interactive elements working correctly.

Verified Working Features

- **Checkboxes:** All visible and clickable (Select All + individual item checkboxes)
- **Dropdowns:** All functional and interactive (category selection dropdowns)
- **UI Layout:** Matches local version perfectly
- **JavaScript Hydration:** Working correctly with no console errors
- **Interactive Elements:** All responding to user input properly



Deployment Configuration

Next.js Configuration (`next.config.js`)

```
const nextConfig = {
  // Only use static export if explicitly requested
  output: process.env.NEXT_OUTPUT_MODE === 'export' ? 'export' : undefined,
  // Ensure proper hydration for interactive components
  reactStrictMode: true,
  // Optimize for better client-side performance
  swcMinify: true,
  images: { unoptimized: true },
};
```

Key Components with Client-Side Interactivity

All components requiring interactivity have the `'use client'` directive:

- `components/invoice-uploader.tsx` 
- `components/invoice-dashboard.tsx` 

Deployment Process

1. Pre-Deployment Checks

```
# Install dependencies
npm install

# Run type checking
npm run build

# Test production build locally
npm run start
```

2. Verify Interactive Elements

Test these pages for functionality:

- / - Main upload page
- /test-dashboard - Interactive elements testing
- /test-real-data - Real data testing

3. Deployment Verification Script

```
# Run automated verification (requires puppeteer)
node scripts/verify-deployment.js https://your-deployment-url.com
```



Troubleshooting Guide

Issue: Missing Checkboxes or Dropdowns

Symptoms:

- Checkboxes not visible in table
- Dropdowns showing but not clickable
- "Select All" column missing

Diagnosis Steps:

1. Check Browser Console

```
javascript
// Open browser dev tools and run:
console.log('Checkboxes:', document.querySelectorAll('input[type="checkbox"]').length);
console.log('Dropdowns:', document.querySelectorAll('select').length);
```

1. Verify JavaScript Loading

- Check Network tab for failed JS bundle loads
- Look for 404 errors on `/_next/static/chunks/` files

2. Test Hydration

```
javascript
// Check if React has hydrated
console.log('React Root:', document.getElementById('__next') !== null);
```

Solutions:

1. Clear Browser Cache

- Hard refresh: `Ctrl+Shift+R` (Windows/Linux) or `Cmd+Shift+R` (Mac)
- Clear browser cache completely

1. Check Build Configuration

- Ensure `'use client'` directive is present in interactive components
- Verify `output` mode in `next.config.js` is not forcing static export

2. Rebuild and Redeploy

```
bash
npm run build
# Deploy using your deployment method
```

Issue: Static Export Problems

Symptoms:

- Interactive elements work locally but not in production
- API routes not working

Solution:

- Remove `output: 'export'` from `next.config.js` if using server features
- Use hybrid rendering instead of pure static export

Issue: Hydration Mismatch

Symptoms:

- Console warnings about hydration
- Elements appear but don't respond to clicks

Solution:

- Ensure server-rendered HTML matches client-side rendering
- Check for conditional rendering based on `typeof window`



Performance Monitoring

Key Metrics to Monitor

- **First Contentful Paint (FCP):** < 2s
- **Largest Contentful Paint (LCP):** < 2.5s
- **Cumulative Layout Shift (CLS):** < 0.1
- **First Input Delay (FID):** < 100ms

Monitoring Tools

- Browser DevTools Performance tab
- Lighthouse audits
- Web Vitals extension



Continuous Deployment

Pre-Deploy Checklist

- ☐ All tests passing
- ☐ Build completes without errors
- ☐ Interactive elements tested locally
- ☐ No TypeScript errors
- ☐ Environment variables configured

Post-Deploy Verification

- ☐ All pages load correctly
- ☐ Checkboxes are visible and clickable
- ☐ Dropdowns are functional
- ☐ No JavaScript console errors
- ☐ API endpoints responding (if applicable)





Support

If you encounter issues with the deployment:

1. **Check this guide first** for common solutions
2. **Run the verification script** to identify specific problems
3. **Check browser console** for JavaScript errors
4. **Test in incognito mode** to rule out caching issues
5. **Compare with local development** to isolate deployment-specific issues



Recent Changes (July 14, 2025)

-  Verified all interactive elements working in deployed version
 -  Optimized `next.config.js` for better hydration
 -  Added deployment verification script
 -  Created comprehensive troubleshooting guide
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Last Updated: July 14, 2025

Deployment Status:  WORKING

Verified URL: <https://13a040b497.preview.abacusai.app/>