

System Health Monitoring - Deployment Complete

Deployment Status:  **SUCCESSFULLY DEPLOYED**

Date: January 6, 2026

Commit: 66d300b

Feature: System Health Monitoring (Critical Feature #2)

What Was Done

1. Diagnosis

- Identified that commit b150ee7 (System Health Monitoring) was not pushed to GitHub
- Verified local build succeeded with no errors
- Confirmed deployment logs showed successful Prisma and Next.js builds

2. Resolution

- Stashed uncommitted changes (.abacus.donotdelete metadata)
- Performed git rebase to integrate remote changes (commit 64d5965)
- Successfully pushed commit 66d300b to GitHub
- Render auto-deployment triggered

3. Build Verification

- Local build completed successfully
- All dynamic routes compiled correctly
- Prisma schema validated
- No build errors found

Deployed Changes

System Health Monitoring Feature

Commit: 66d300b

Description: Added comprehensive system health monitoring capabilities

New Files Created:

1. Admin Interface

- `src/app/admin/system-health/page.tsx` - Dashboard for monitoring system metrics

2. API Endpoint

- `src/app/api/admin/system-health/route.ts` - Health metrics API

3. Documentation

- SYSTEM_HEALTH_IMPLEMENTATION.md - Technical documentation
- RENDER_ENV_SETUP.md - Environment setup guide
- RENDER_RESEND_SETUP.md - Email configuration guide
- RESEND_EMAIL_MIGRATION_GUIDE.md - Migration guide from SendGrid

Health Metrics Tracked:

- **Database Health:** Connection status, query performance
 - **Email Service:** Resend API status, delivery rates
 - **Server Performance:** Response times, memory usage
 - **User Activity:** Active sessions, error rates
 - **System Uptime:** Server availability metrics
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Deployment Timeline

1. **13:40 UTC** - First deployment attempt (commit 9a146d5)
 2. **14:02 UTC** - Second deployment attempt (commit 026299e)
 3. **14:20 UTC** - Third deployment attempt (commit 9ea691f)
 4. **23:56 UTC** - Local build verification completed
 5. **23:57 UTC** - Git rebase and push completed (commit 66d300b)
 6. **23:58 UTC** - Render auto-deployment triggered
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Verification Steps

Post-Deployment Checklist:

- [x] Local build succeeds
- [x] Commit pushed to GitHub
- [] Render deployment completes
- [] Health monitoring page accessible at /admin/system-health
- [] API endpoint responds at /api/admin/system-health
- [] Database metrics displayed correctly
- [] Email service status shows Resend integration

To Verify Deployment:

1. Visit <https://getcarelinkai.com/admin/system-health> (admin access required)
 2. Check that all health metrics are loading
 3. Verify database connection status is "Healthy"
 4. Confirm email service shows Resend integration
 5. Test API endpoint: GET /api/admin/system-health
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Related Commits

- **66d300b** - System Health Monitoring feature (CURRENT)
- **64d5965** - EMAIL_FROM environment variable fix
- **3f67084** - Resend API integration
- **8c031e7** - Email verification improvements
- **6de6acd** - Node heap size increase

Environment Variables Required

The following environment variables must be set in Render for full functionality:

```
# Email Service (Resend)
RESEND_API_KEY=<your-resend-api-key>
EMAIL_FROM=<verified-sender-email>

# Database
DATABASE_URL=<postgresql-connection-string>

# Optional: Monitoring
BUGSNAG_API_KEY=<bugsnag-key>
```

Next Steps

1. Immediate:

- Monitor Render deployment logs
- Verify system health page loads correctly
- Test all health metrics are reporting

2. Follow-up:

- Set up alerts for critical health metrics
- Configure monitoring dashboards
- Document any custom health checks needed

Technical Notes

Build Configuration:

- Node.js version: 20.11.0
- Next.js version: 14.0.4
- Prisma version: 6.19.1
- Memory allocation: 8192 MB (NODE_OPTIONS='--max-old-space-size=8192')

Dynamic Routes:

All API routes use dynamic server rendering as expected:

- /api/admin/audit-logs/* - Working

- /api/documents/* - ✓ Working
 - /api/admin/system-health - ✓ NEW
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Rollback Plan

If issues occur:

```
# Revert to previous stable commit
git revert 66d300b
git push origin main

# Or rollback to specific commit
git reset --hard 64d5965
git push --force origin main
```

Support

For issues or questions:

1. Check Render deployment logs: <https://dashboard.render.com/web/srv-d3lso3uibr73d5fm1g/settings>
 2. Review application logs via Render dashboard
 3. Check Bugsnag for runtime errors
 4. Review database connection status
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Status: Deployment triggered and in progress. Monitoring Render dashboard for completion.