# Day 02 Progress Report: AI Analytics Card Generator

**Date Started:** February 10, 2026
**Status:** In Progress (Started, Not Complete)
**Challenge Framework:** 15 apps in 15 days — optimizing for learning, not completion

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## Project Goal

Build an AI-powered tool to automate the creation of social media cards based on healthcare analytics data.

### Current Manual Workflow (To Be Automated)
1. Query AI analytics system for healthcare insights
2. Manually convert raw data into visual "bite-sized" social media cards
3. Design cards with specific brand aesthetic (dark/futuristic with cyan highlights, bold statistics)

### Desired Automated Workflow
Tool that takes analytics query results → AI determines compelling visual cards → Generates cards automatically

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## What Was Accomplished

### Assets Gathered
- **Brand logo files** uploaded
- **Sample healthcare analytics** documented covering 9 different query types:
  - Medication switching patterns
  - Seasonal medical spending trends
  - Surgery risk factors
  - Preventive care demographics
  - And more...

### Design Requirements Identified
- **Visual Style:** Dark, futuristic aesthetic
- **Color Palette:** Dark backgrounds with cyan (#00D9FF or similar) highlights
- **Typography:** Bold, clean fonts for statistics
- **Layout:** Optimized for social media (clean data visualizations, arrest-scrolling design)

### Technical Approach Attempted
- Initially tried to create downloadable HTML file with embedded Anthropic API calls

- Goal: User could download and run locally to generate cards on demand

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## Technical Challenges Encountered

### Primary Issue: CORS Errors
**Problem:** When trying to run the downloaded HTML file locally, encountered Cross-Origin Resource Sharing (CORS) errors preventing API calls from working.

**Root Cause:**
- Claude artifacts work within claude.ai because they have automatic API authentication
- Downloaded files lose access to this authentication layer
- Local HTML files cannot make authenticated API calls to Anthropic's API without proper credentials

### Secondary Issue: Artifact Display
Multiple attempts to create React artifact for the TimTim Card Generator failed to render in the interface, leaving core functionality unresolved.

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## Key Learning

**Downloaded vs. Web-Based Applications:**
- HTML files with AI features work perfectly as artifacts in claude.ai (with built-in authentication)
- Downloaded HTML files need separate authentication setup to call external APIs
- For AI-powered tools, web-based deployment is simpler than downloadable files

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## Current State

**What Exists:**
- Clear project requirements
- Design specifications
- Sample data and use cases
- Flume Health branding assets

**What Doesn't Work Yet:**
- No functional card generator tool
- No working artifact or downloadable file
- Core AI-to-visual-card automation not implemented

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## Next Steps to Continue

If resuming this project, here's the recommended approach:

### Option 1: Web-Based Artifact (Recommended)
1. Create a React artifact that lives within claude.ai
2. User inputs TimTim query results
3. Artifact uses Anthropic API (with built-in authentication) to generate card ideas
4. Display generated cards visually in the artifact
5. User can screenshot or download individual cards

**Pros:** No authentication issues, works immediately
**Cons:** Requires staying in claude.ai interface

### Option 2: Full Web Application
1. Build proper web application with backend
2. Host on a platform (Vercel, Netlify, etc.)
3. Implement proper API authentication server-side
4. User accesses via URL (e.g., grantparkercoaching.com/apps/analytics-generator)

**Pros:** Standalone tool, shareable with client team
**Cons:** More complex, requires hosting and API key management

### Option 3: Simplified Manual Helper
1. Create static HTML template for card designs
2. User manually enters statistics and text
3. No AI automation, just beautiful pre-designed templates
4. Downloadable and works locally

**Pros:** Simple, works immediately, no API needed
**Cons:** Still requires manual work, defeats automation purpose

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## Recommendation for Pickup

**Start with Option 1** – Create a working React artifact within claude.ai that:
- Takes analytics query results as input
- Uses AI to suggest card concepts
- Displays mockup designs
- Allows quick iteration

Once working artifact exists, can always migrate to standalone web app later.

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## Files to Reference

- Brand logo files (uploaded to conversation)
- Sample analytics queries and data (documented in conversation history)
- Brand aesthetic examples (dark + cyan design shown in screenshots)

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## Questions to Ask When Resuming

1. Has the desired output changed? (Still social media cards?)
2. Is the brand aesthetic still the same?
3. Should we focus on getting ONE working card format first, or multiple layouts?
4. Will this be used personally only, or shared with the client team?

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**Total Time Invested:** Approximately 1-2 hours on Day 2
**Primary Value:** Learned about web vs. downloaded app limitations with AI features
**Next Action:** Decide whether to continue this project or archive for later