Sprint 1 Review

Project: STL Tornado ROI Dashboard
Dates: January 26, 2026 – February 16, 2026
Written in collaboration with Google Gemini

1. Overview

The primary focus of Sprint 1 was foundational: establishing the project identity, setting up the technical architecture, and beginning the initial research and design phases for the dashboard and machine learning models.

2. Accomplishments

During this sprint, the team successfully transitioned from concept to initial execution:

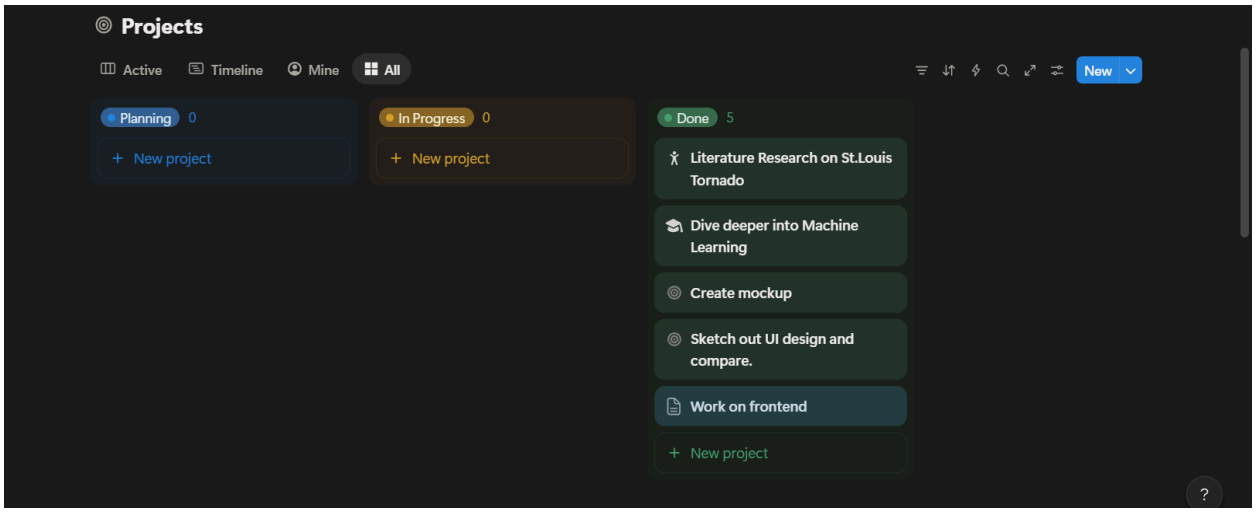
- **Project Definition:** Finalized project ideas and selected the full tech-stack.
- **Presentations:** Successfully delivered in-class presentations to outline project goals.
- **Initial Development:** Built a basic functional website draft.
- **Infrastructure:** Established a database connection to Supabase and implemented Prisma for schema management.
- **Design:** Started Figma dashboard designs and architectural mapping.

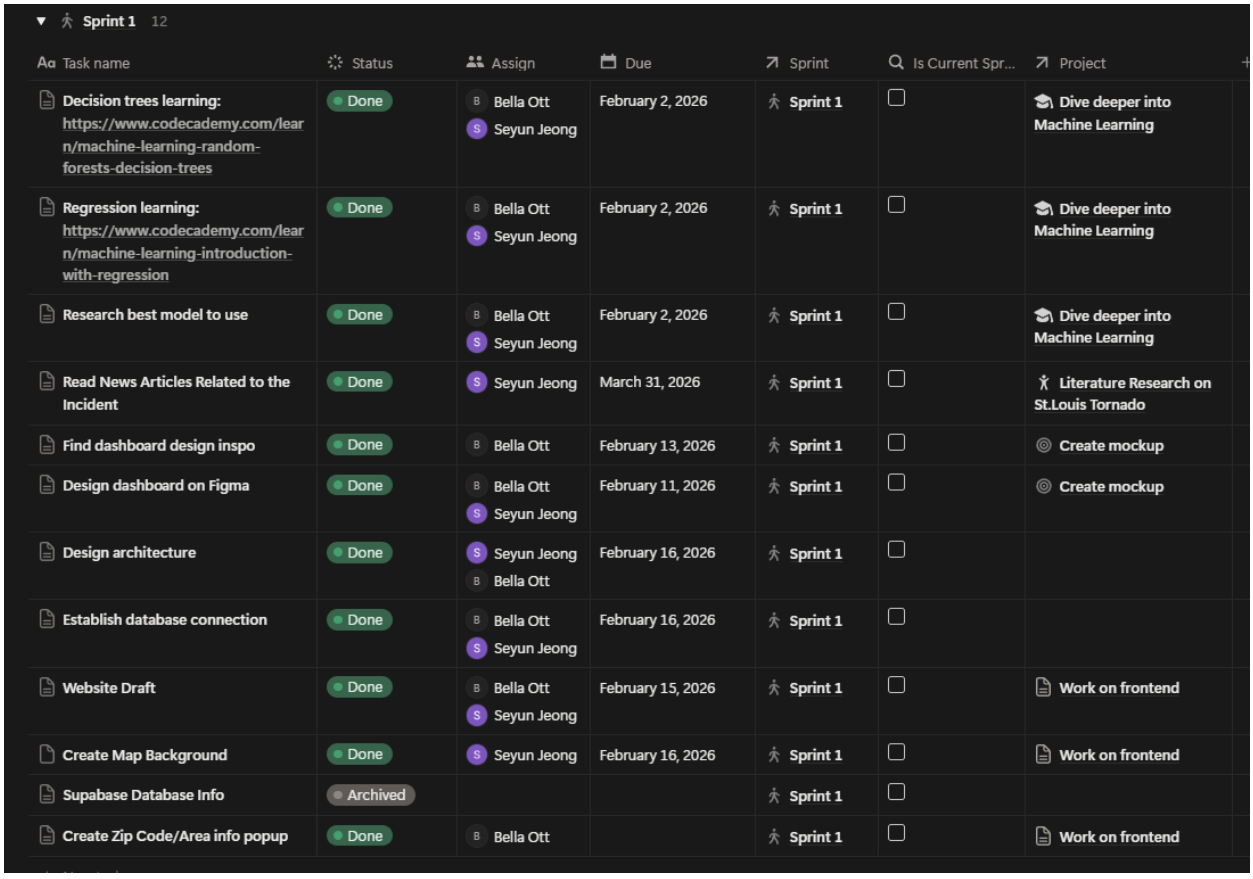
3. Tasks & Deliverables

The following tasks were addressed during this interval:

- **Research:** Read news articles related to the incident and researched optimal ML models.
- **Learning:** Completed modules on Regression and Decision Trees/Random Forests via Codecademy.
- **Visuals:** Created a map background and sourced dashboard design inspiration.
- **Backend:** Initialized database connections and design architecture.

Trello/Notion Board





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Task name	Status	Assign	Due	Sprint	Is Current Spr...	Project
Decision trees learning: https://www.codecademy.com/learn/machine-learning-random-forests-decision-trees	Done	Bella Ott, Seyun Jeong	February 2, 2026	Sprint 1	☐	Dive deeper into Machine Learning
Regression learning: https://www.codecademy.com/learn/machine-learning-introduction-with-regression	Done	Bella Ott, Seyun Jeong	February 2, 2026	Sprint 1	☐	Dive deeper into Machine Learning
Research best model to use	Done	Bella Ott, Seyun Jeong	February 2, 2026	Sprint 1	☐	Dive deeper into Machine Learning
Read News Articles Related to the Incident	Done	Seyun Jeong	March 31, 2026	Sprint 1	☐	Literature Research on St.Louis Tornado
Find dashboard design inspo	Done	Bella Ott	February 13, 2026	Sprint 1	☐	Create mockup
Design dashboard on Figma	Done	Bella Ott, Seyun Jeong	February 11, 2026	Sprint 1	☐	Create mockup
Design architecture	Done	Seyun Jeong, Bella Ott	February 16, 2026	Sprint 1	☐	
Establish database connection	Done	Bella Ott, Seyun Jeong	February 16, 2026	Sprint 1	☐	
Website Draft	Done	Bella Ott, Seyun Jeong	February 15, 2026	Sprint 1	☐	Work on frontend
Create Map Background	Done	Seyun Jeong	February 16, 2026	Sprint 1	☐	Work on frontend
Supabase Database Info	Archived			Sprint 1	☐	
Create Zip Code/Area info popup	Done	Bella Ott		Sprint 1	☐	Work on frontend

4. Key Learnings

- **Technical:** Gained proficiency in Decision Trees and Regression models.
- **Database Management:** Identified the specific differences between standard SQL and PostgreSQL; learned to use Prisma as a database schema tool.
- **Soft Skills:** Improved effective presentation techniques.

5. Improvements Needed

To increase efficiency in Sprint 2, the team identified the following areas for growth:

- **Preparation:** Arrive better prepared for sprint check-in meetings.
- **Accountability:** Ensure tighter adherence to schedules to meet all defined sprint goals.

6. Next Steps

- **Data Integration:** Import datasets into the Supabase database.
- **Backend Development:** Develop the map backend functionality to allow for zip code selection.