

OPTCG Stat Tracker

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Skyler Mclain

Overview

The OPTCG Stat Tracker is a personal stat-logging app for One Piece Trading Card Game players. It allows users to select their current deck (represented by a Leader card) and log match results against other leaders, tracking detailed win/loss stats with breakdowns based on play/draw position. This project is built with a React frontend and FastAPI backend, and pulls real card data from the OPTCG API and images from Limitless TCG's CDN.

Goals

1) Allow users to select their "active" or "current" Leader/deck

- 2) Log individual matches including
 - a) Opponent's leader
 - b) Whether the user went first or second
 - c) Win or loss result
- 3) Display aggregated stats per matchup
 - a) Total games vs each leader
 - b) Win percentage
 - c) Breakdown by going first vs second
- 4) Support switching between multiple leaders or decks
- 5) Store all match in a persistent backend database

Specifications

Frontend (React)

- Display list of all available leader cards from OPTCG
- Load and show card images using URL format from limitless TCG
- Form to log new match (Select opp's leader, W/L, 1st/2nd)
- Stats dashboard showing performance vs other leaders

Backend (FastAPI)

- Rest API for -
 - Fetching all stored matches
 - Posting a new match
 - Getting stats for active leader
- PostgresSQL database with tables for
 - Leaders
 - Match Logs
- Models defined using Pydantic and SQLAlchemy

APIs Used

OPTCGAPI - for card metadata https://optcgapi.com/documentation/ Limitless TCG - for card images https://onepiece.limitlesstcg.com/cards/

User Stories

- 1. As a user, I want to choose an active leader so I can track matches for that deck.
- 2. As a user, I want to Log my matches with results, opponent, and play/draw info
- 3. As a user, I want to view my overall win rate vs each opponent leader.
- 4. As a user, I want to view split stats based on whether I went first or second.
- 5. As a user, I want to swap my active deck and log matches separately for each one.

Milestones

I. May 11

Project planning and tech stack finalizations

II. May 11-12

Build backend models + FastAPI routes

III. May 12

Create React UI: leader select + match form

IV. May 13

Add stat view/dashboard

V. May 14

Polish the UI and finalize MVP

Stretch Goals

- Add user accounts and login functionality
- Filter match data by date range and or tournament type
- Export stats as CSV
- Dark mode UI toggle 🙂
- Deck builder