

Sprint Plan					
ID	Task Name	Start Date	End Date	% Complete	Notes
S1	Sprint 1 - Defining Services	5/6/24	5/10/24	100% 	
T00	Create Micro-Service Mapping	5/6/24	5/8/24	100% 	Define the I/O for each microservice and there relationships.
T01	Learn About Docker Images	5/8/24	5/10/24	100% 	Containerizing Programs (Micro-services)
T02	Make Github Repo	5/9/24	5/11/24	100% 	Containerizing Programs (Micro-services)
S2	Sprint 2 - Data Collection and RAG Research	5/13/24	5/18/24	100% 	
T02	Start e-Commerce DataScraper Build	5/13/24	5/15/24	100% 	Get selling item info: image, price, description, duration from post to sale, etc.
T03	Research RAG Pipeline Frameworks and models to use in the RAG Service Pipeline	5/16/24	5/20/24	 75%	We'll need an image classifier, retrieval model, generative model, and a good framework for setting up the pipeline.
S3	Sprint 3 - RAG Service	5/21/24	5/26/24	0%	
T04	Factor DataScraper code for Abitrary API Calls	5/20/24	5/22/24	0%	Build abstract base class to ensure simple integration of new e-commerce platforms APIs into the backend.

ID	Task Name	Start Date	End Date	% Complete	Notes
T05	Map Out RAG Service Pipeline	5/22/24	5/24/24	0%	Have the pipeline of models mapped out, showing the flow of how each component will interact with each other- the specifications of each component and how/why each component is used (compared to other components that could've been used).
T06	Experiment coding a RAG Pipeline	5/24/24	5/26/24	0%	Experiment with the RAG in code form. Either by practicing arbitrary techniques or with the proposed pipeline for this project.
S4	Sprint 4 - RAG			0%	

Backlog

ID

T02

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Tasks

Create Datascraper for an e-Commerce Website

Generate Item Descriptions Relevant to Current Market Trends

User Stories

As an AI developer I would like a tool that allows me to easily scrape useful data about items from e-commerce websites. This way I can spend more time worrying about how to train my model instead of trying to find data.

As someone interested in reselling my items, I want a feature that automatically fills in the details needed to capture a buyers attention so I don't to spend tons of time doing that myself.

As a market analyst I would like a tool that allows me to easily scrape statistical data and meta data about items. This way I can focus more time and energy on analyzing the data, as well as generally have more data to work with.

As someone interested in reselling my items, I want my listing to quickly and effectively capture buyers' attention so that my items sell quickly from the time I post them.

As someone new to reselling items I would like to see some ideas about how to market my items. This way I don't have to spend too much time brainstorming or have to bother someone else for an opinion.

As an artist/entrepreneur I would like a tool that can help me generate ideas for how to market my product (reccomend price, description, etc.) so that my business can be more successful.

To3

Abstract API Classes

As someone interested in reselling my items, I want to post my items on as many different e-commerce sites as possible so that my items sell quickly from the time I post them.

As a developer (especially one new to this programs code) I would like to be able to easily integrate this program with another e-commerce API, if say a new one comes out in the future.


