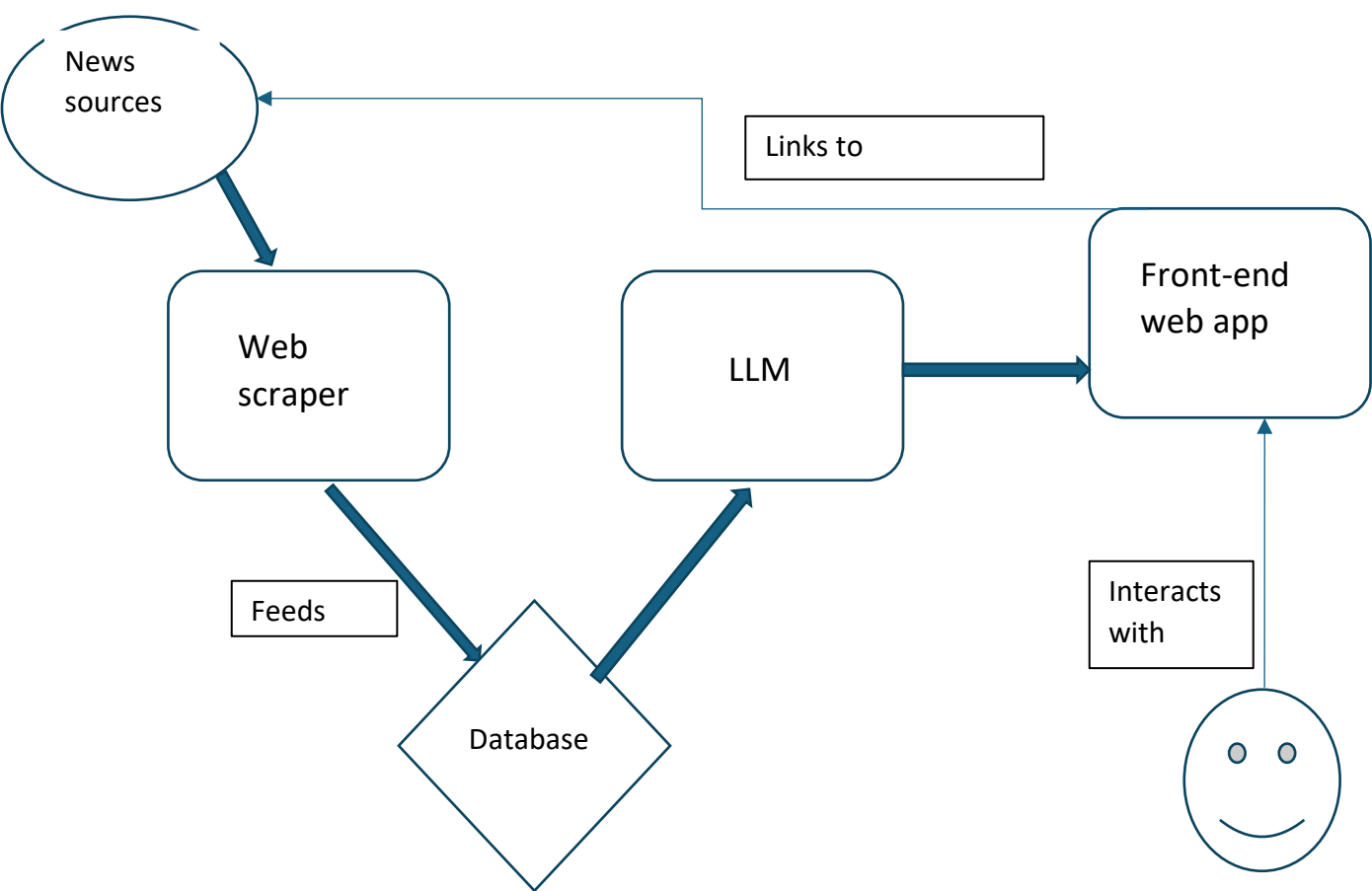


Use case diagram



User personas

Name	Details	Goal
Joe Williams	47 year old middle class office worker. Married with two young children. He enjoys golfing and taking his children to their little league games on the weekend. He thinks that it's important to be at least somewhat informed about the going-ons in the world, if only so he knows how it will affect him.	Wants a quick and easy place to get a general idea of the day's news without having to go in-depth.

	He reads from one newspaper every morning and it's usually only skimming.	
Lisa Burnett	25 years old, works for a non-profit that works to end world hunger. Currently single and does not make a lot of money, but is very passionate about her work. Leans more liberal but understands the need for unbiased news.	Wants to get a good, unbiased source for all types of news, and wants the ability to read more about the topics that interest her.
Brian Lewis	68 year old retiree, volunteers at his local church and likes photography and birdwatching. Lives with his wife and sees his grown children often. Leans conservative but likes to read all sorts of newspapers.	Wants to read all different sorts of articles from a variety of sources. Wants to be able to see where the information came from and where he can go for more information.

User stories

1. As a middle-class office worker and informed citizen, I want to keep up with world events so I can fully participate in government.
2. As an activist, I want to know what is going on with an unbiased spin, so I know how to best focus my efforts.
3. As a retiree I want to read news from a lot of different sources because it is something I enjoy.

4. As a university student, I want a quick and centrist way to get news so I can know what's going on without having to spend too much time on it.

Scrum

Product backlog

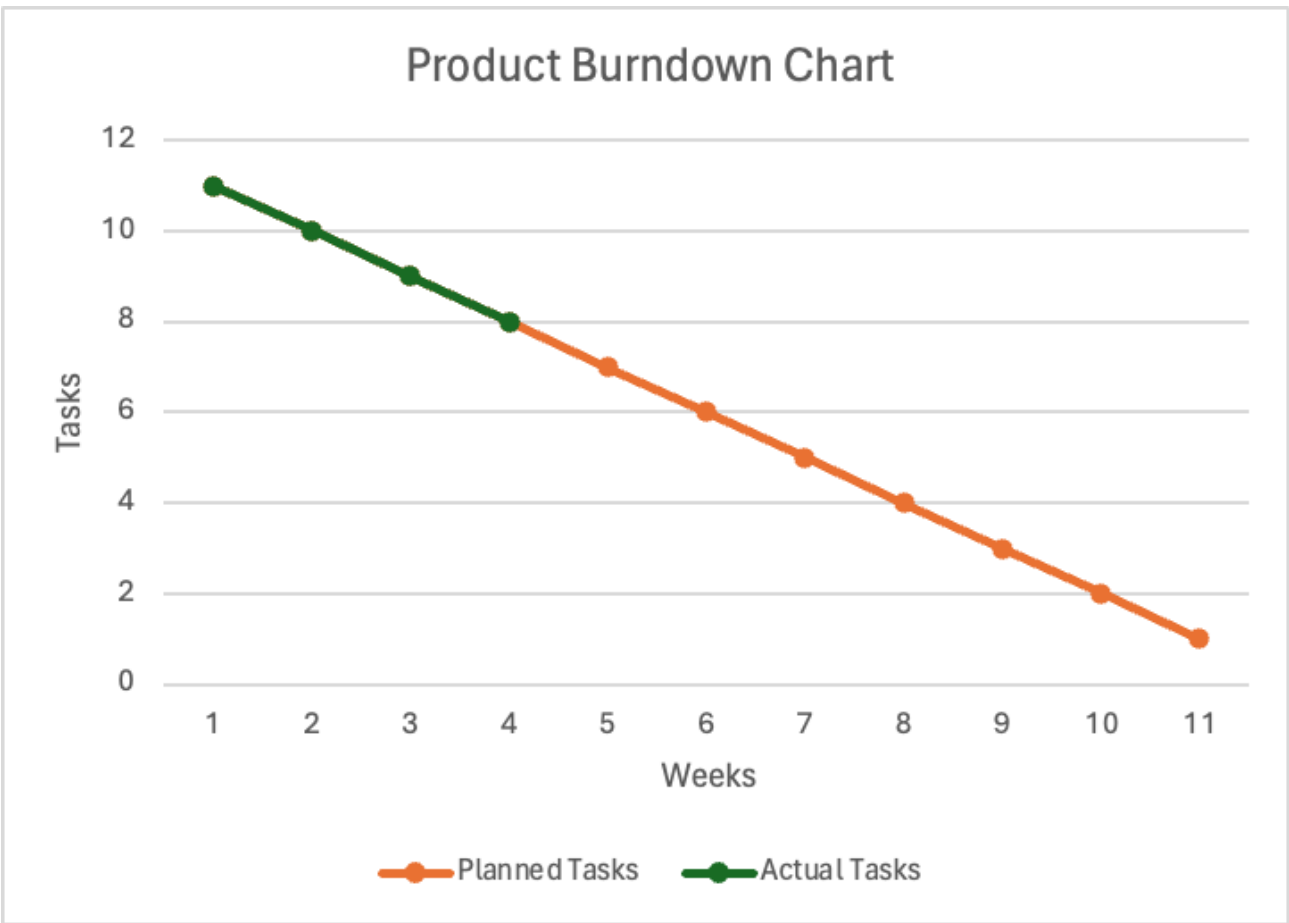
Sprint	Requirement	Done
Sprint 1	Scrape the web for trending news headlines	<input checked="" type="checkbox"/>
	Scrape the web for articles relating to the trending headlines	<input checked="" type="checkbox"/>
	Scrape the article contents from links to articles	
Sprint 2	Save the text of all articles corresponding to each trending headline in separate text files	
	Use natural language processing to generate a summary of each text file (LLM)	
Sprint 3	Ideate and design front end user interface	
	Develop front end web interface	
	Integrate backend web scraping and natural language processing	
Sprint 4	Improve web scraping capabilities to allow for more sources by making the article content scraper more versatile	
	Tune natural language processor for better summaries	
	Launch web interface for testing and user feedback	

Product roadmap

Sprint	Week	Task Description	Time Estimate	Prerequisites/Dependencies	Status
Sprint 1	2	Ideate Project Topic	5 hours	None	Done
	3	Define Project	5 hours	None	Done
	4	Define technical components	3 hours	Defining the project	Done
	5	Develop web scraper to be able to scrape for trending news	10 hours	None	In Progress
Sprint 2	6	Add functionality to store scraped material into a central repository	10 hours	Web scraper must be able to scrape news	Not Started
	7	Utilize NLP to give summaries of the text files (LLM)	15 hours	Text files must be stored within a repository	Not Started
Sprint 3	8	Develop a functional front-end application	8 hours	None	Not Started
	9	Integrate repository with front end	8 hours	Front end must be developed	Not Started
Sprint 4	10	Improve upon the web scraper functionalities	10 hours	Must have a developed web scraper	Not Started
	11	Improve upon the NLP summarizer	10 hours	Must have a NLP article summarizer developed	Not Started

	12	Improve the styling of the user interface (front-end)	10 hours	Must have a user interface created	Not started
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Product burndown chart



Commentary on chart: Based on the product burndown chart (which was created based on the product roadmap above which states a major task will be completed per week) the project is on time and efficiency is at an optimal state thus far.