



- Explore the infinite web

Aim

- Plenty of general-purpose search engines
- SPECIALIZE!
- Tried to go for domain specific engine to restrict the dataset
- Create a powerful and feature-rich tool that optimizes our use case

Domain: Movies!

- There are a lot of attributes to cover in a movie: Actors, Directors, Music and so on

How do we plan to make Infinity Engine great in this domain?

- Perform attribute specific search. Example: Look up movies having a specific set of actors
- Done by providing domain-specific logical operators support (AND / OR / NOT) for searching



About Infinity Engine

Infinity Engine is an elegant and quick-responsive search engine which is inspired from the commonly-known Google search engine.

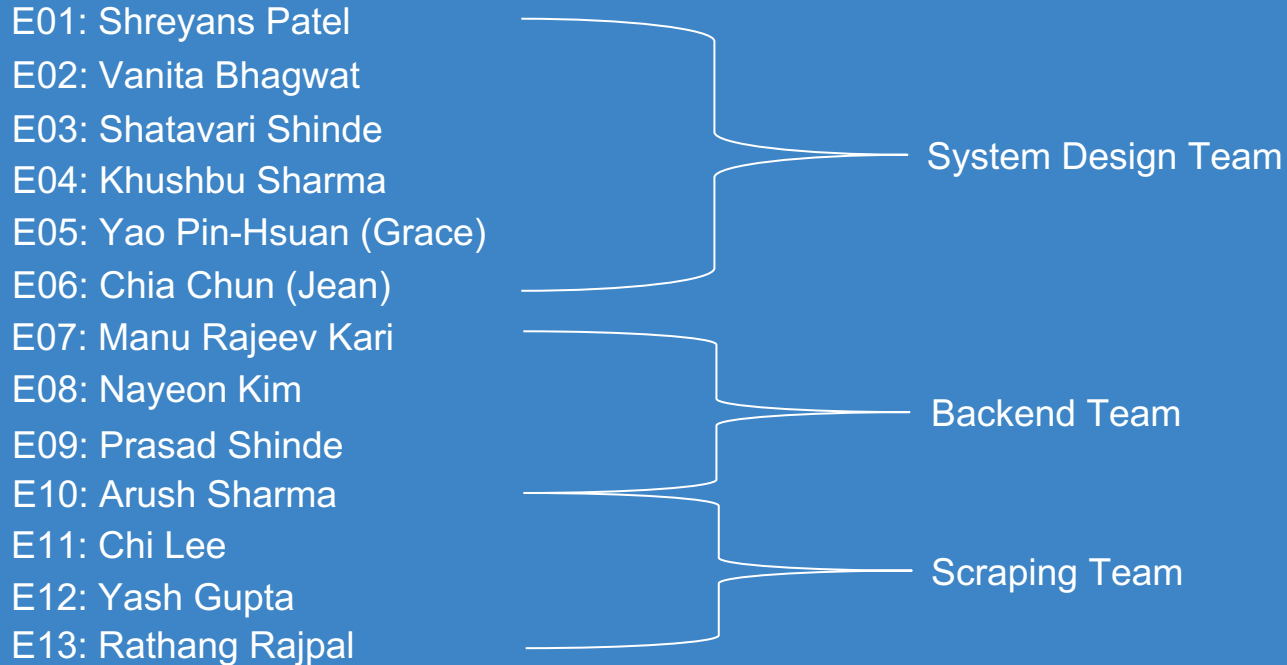
Story Behind The Name

Since this engine was born out of the course OOAD, we were thinking of something like OOAD search engine. Then we iterated like every successful project.

- Name Iteration 1: OOAD Search Engine
- Name Iteration 2: OO Engine
- Name Iteration 3: Infinity Engine (Since OO looks like it)
- Name Iteration 4: We found out tag line – “Explore the infinite web”



Meet the Infinity Team



Functional Requirements:

- FR01: Case Sensitive Search
- FR02: Hyperlink Enforcement
- FR03: Domain-Specific Logical Operators Support
- FR04: Concurrent Operation
- FR05: Outdated URL Deletion
- FR06: Ranking / Ordering Results
- FR07: Number of Results per Page Functionality
- FR08: Autofill Support
- FR09: Filter Stop Words

Non- Functional Requirements

NFR01: User-Friendly

NFR02: Low Latency

NFR03: Scalable

NFR04: High Throughput

NFR05: Understandable for Future Developers



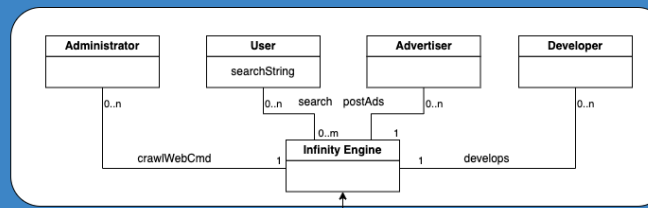
Planned Development Cycle

	FR01	FR02	FR03	FR04	FR05	FR06	FR07	FR08	FR09
Iteration 1									
Iteration 2									
Iteration 3									
Iteration 4									
Iteration 5									

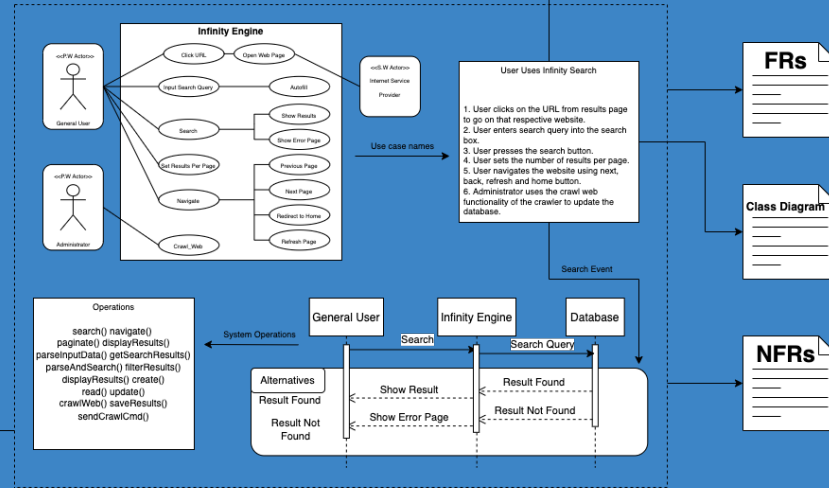
Legend:
Green: Completed
Yellow: Planned
Red: Dropped

The Big Picture Diagram

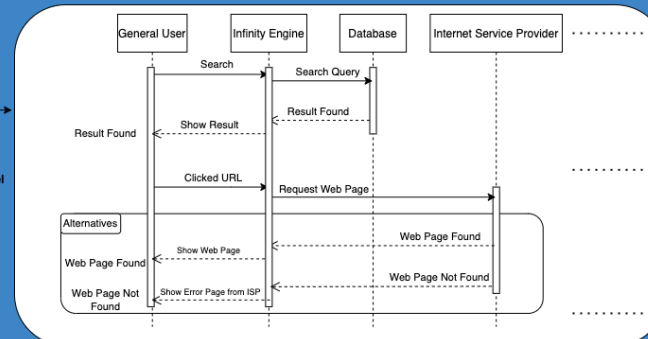
Domain Model



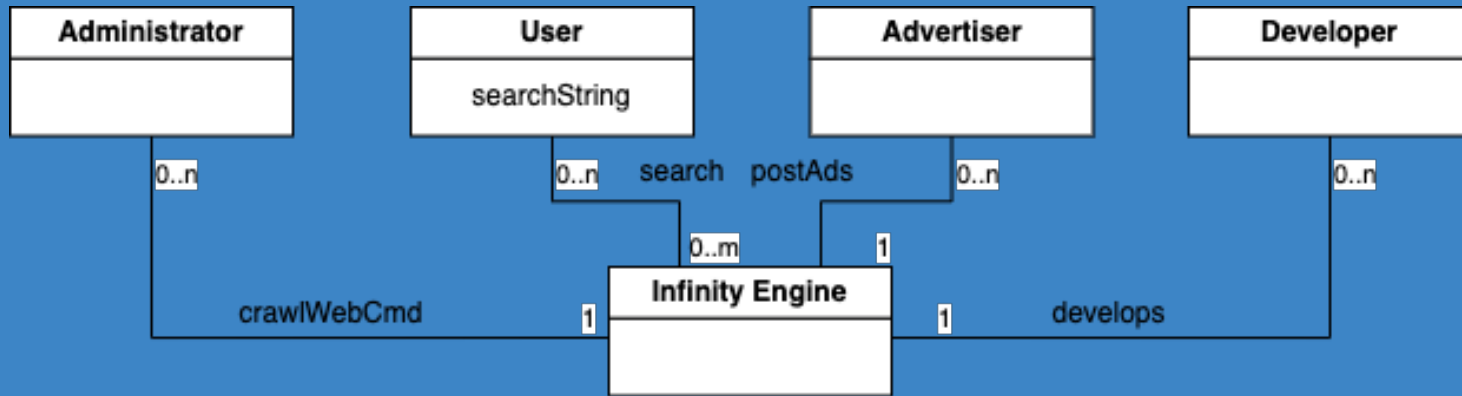
Requirements



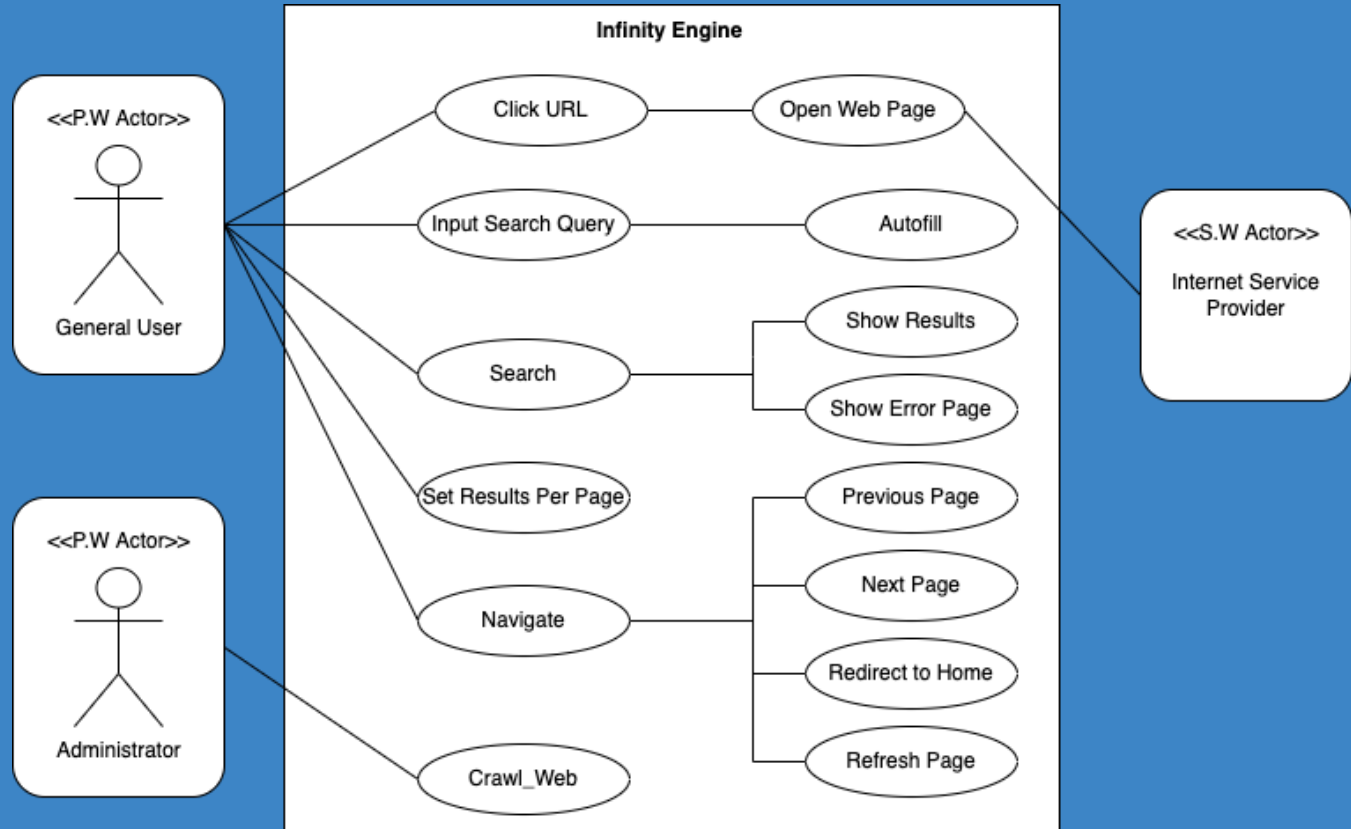
Design Model



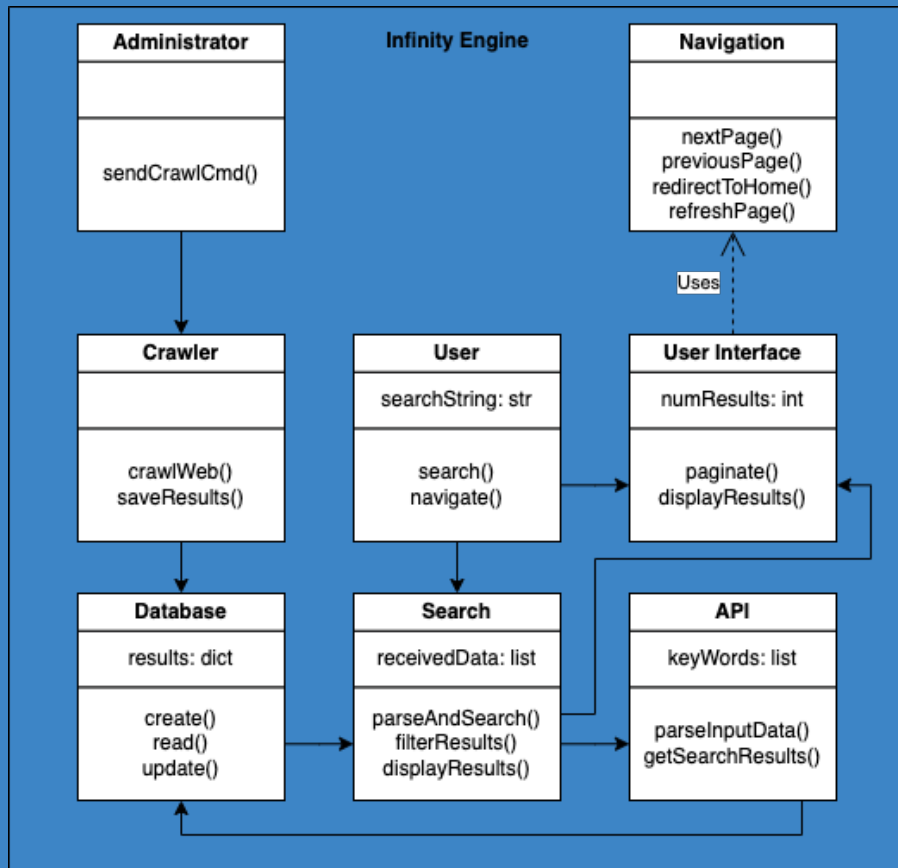
Domain Model Diagram



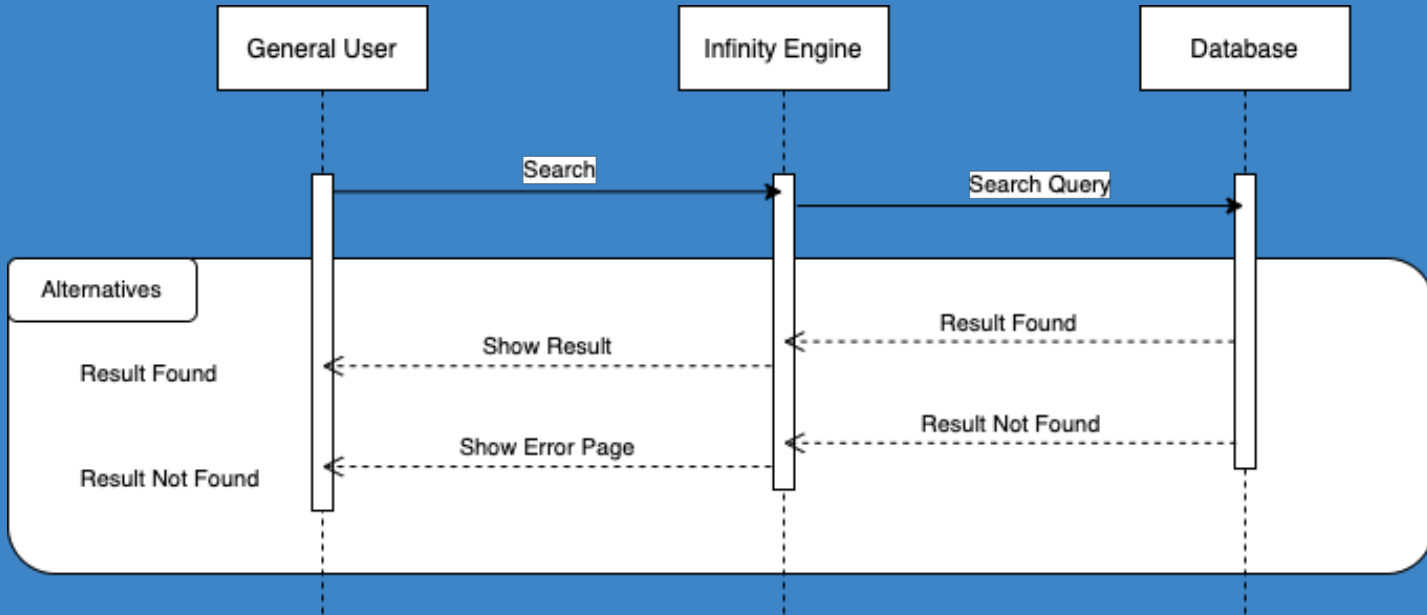
Use Case Diagram



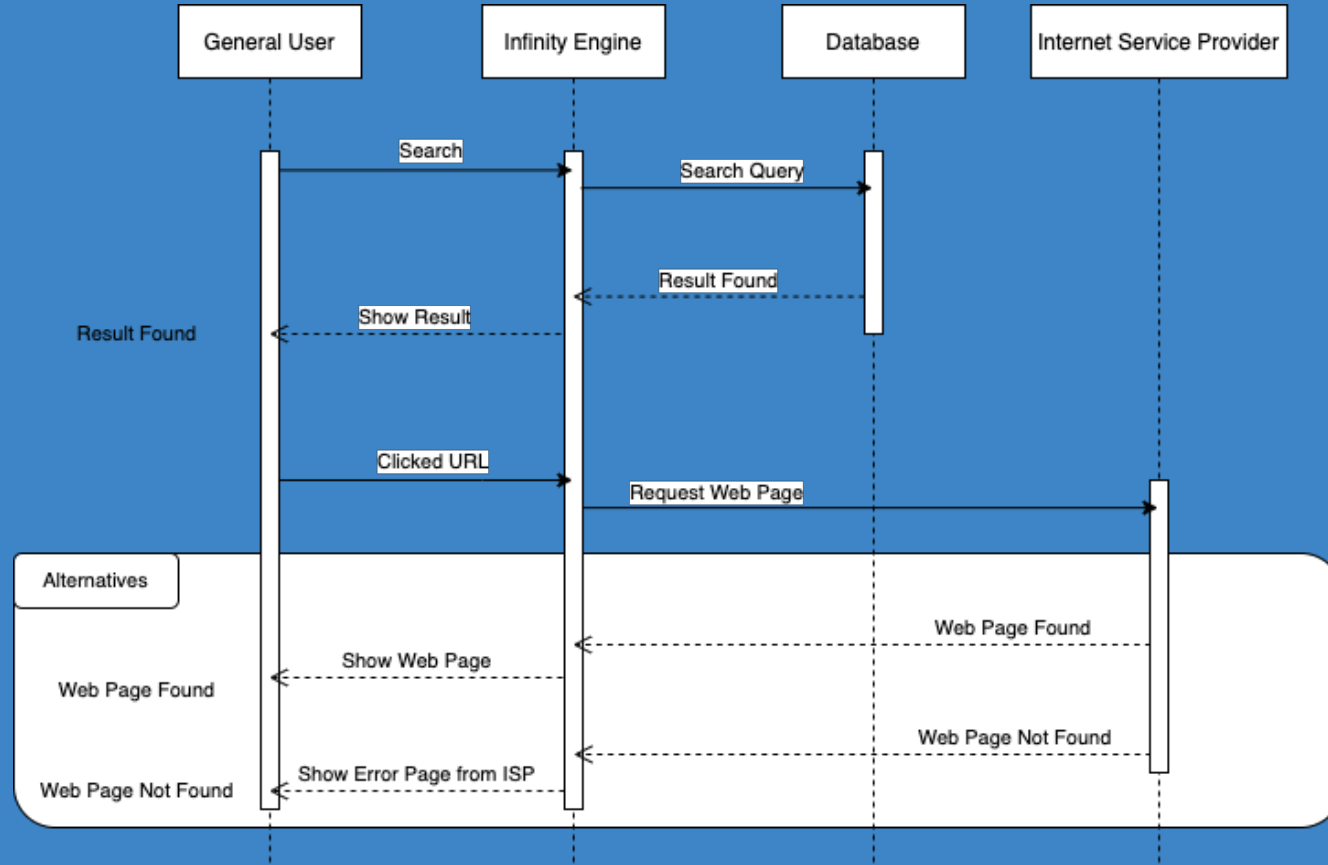
Class Diagram



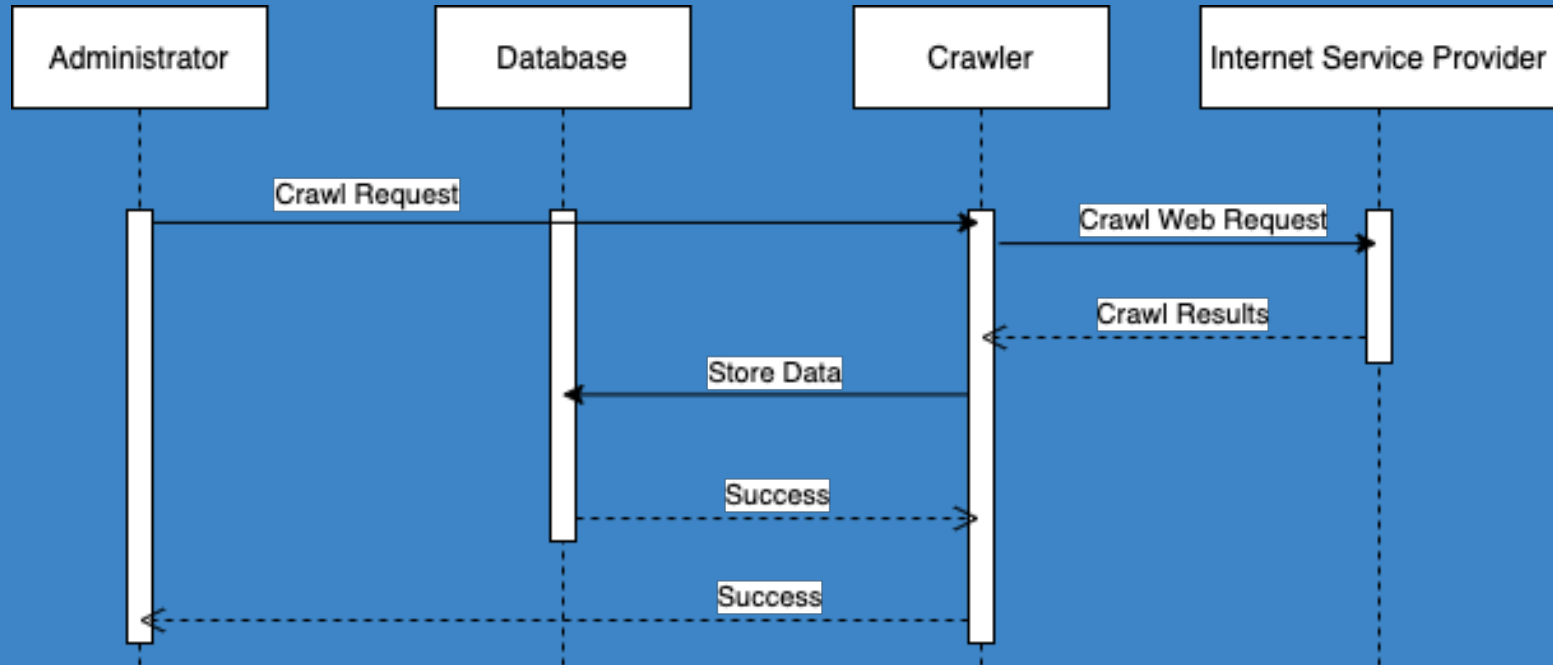
Sequence Diagram: User Searches



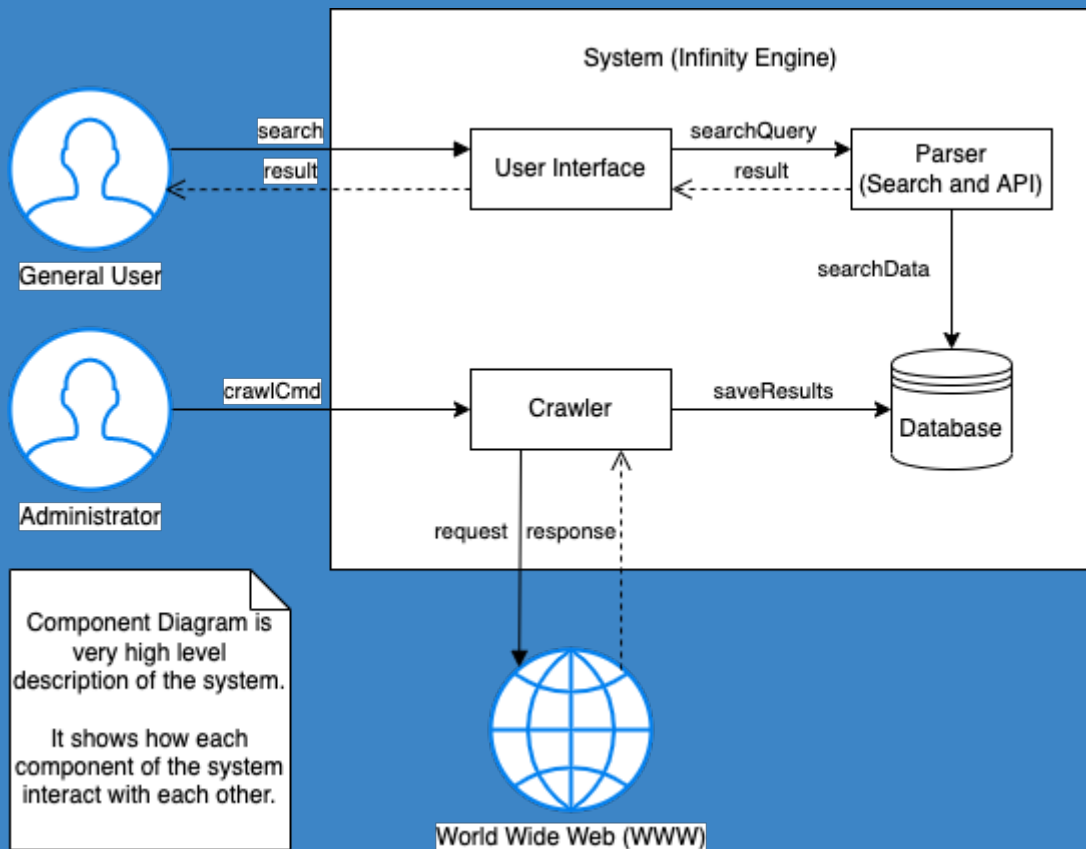
Sequence Diagram: User Clicks URL



Sequence Diagram: Administrator Crawl Request



Component Diagram



Component Diagram is very high level description of the system.

It shows how each component of the system interact with each other.



Demo



What's Next For Us

- Modify completed features with each iteration
- Maintain consistency with all NFRs
- Work on planned FRs for the next iterations
- Switch team leaders regularly
- Cross functional team collaboration
- Draft a detailed Software Requirements Specification (SRS)
- Draft a project report
- Add further features as per time limitations

Questions?



Thank You

- Team Infinity Engine