Phase 1
CS 4376.0U1
Team 1
Team URL: https://cs-4376-cyberminer.herokuapp.com/
Rotating Leader: Tyler Hargreaves

Name	Student ID	Email	% of Contribution	Signature
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Note: no meetings have yet been conducted.

1. Introduction

1.1 Project overview

The following document will describe the planning, scheduling, and team organization involved in implementing the Cyberminer web search engine. The project's end goal is to create a system that will provide users with relevant information using the keywords entered by the user. The resulting data provided to the end user will be a sorted and filtered list of web page URLs.

The major components of the search engine will include a search interface, indexing system, result filtering, query processing, etc. The search interface will allow the end user to interact with the system, enter search queries, and retrieve information. The indexing system will organize, store, and rank information to allow for a reasonably fast search. Result filtering will ensure that our system provides users with relevant, up-to-date data in sorted order. Finally, the query processing component of the project will be responsible for interpreting user inputs, identifying keywords in said input, performing index lookup, and retrieving results.

1.2 Project deliverables

A) Preliminary Project Plan 06/01/2023
B) Interim Project 06/15/2023
C) Final Project I Submission 06/29/2023
D) Interim Project II 07/13/2023
E) Final Project II Submission 08/01/2023

1.3 Evolution of this document

Revision History

Who	When	Changes
Tyler Hargreaves	May 29th	Started document
Areebah Fatima	May 30th	Began Preliminary Documentation; Wrote project description, deliverables, etc.
Nathan Heindl	May 30th	Wrote project responsibilities and management priorities

1.4 References

I. Team Source Code Website https://github.com/tyharg/CS-4376
II. Team Demo Website https://cs-4376-cyberminer.herokuapp.com/
III. Course Homepage https://personal.utdallas.edu/~chung/OOD/syllabus.htm

Cited References

[1] Booch, G., Rumbaugh, J., & Jacobson, I. (1999). *The Unified Modeling Language User Guide*. Addison-Wesley.

1.5 Definitions, acronyms, and abbreviations

UML: Unified Modeling Language

2. Project organization

2.1 Process model
2.2 Organizational structure

Team Members: Tyler Hargreaves, Darrien Kramer, Ilhaam Syed, Nathan Heindl, Areebah Fatima, Matthew Bedford

Deliverable	Team Leader
Preliminary Project Plan	Tyler Hargreaves
Interim Project	Darrien Kramer
Final Project I Submission	Ilhaam Syed
Interim Project II	Nathan Heindl
Final Project II Submission	Matthew Bedford
Project Phase I and II Presentation	Areebah Fatima

2.3 Organizational boundaries and interfaces

2.4 Project responsibilities

Every member will be involved in both of the projects main two life cycles. Team leaders are specifically to turn in work, keep workflow on track, and organize meetings. For more specific responsibilities they will be discussed at a later date.

3. Managerial process

3.1 Management objectives and priorities

The team leaders are to help manage meetings, turn in deliverables, and keep everyone up to date on the project's progression. If sub groups are used then it's the team leader's responsibility to make sure both teams have what they need to complete their work.

3.2 Assumptions, dependencies, and constraints
3.3 Risk management
3.4 Monitoring and controlling mechanism

4. Technical process

4.1 Methods, tools, and techniques

The Creately workspace will be the modeling tool our team will use to create our Use Case, Class, and Sequence Diagrams. The programming language our team has agreed to for the project is Python. This is because most of our team already has experience working with the language, and we feel the language's extensive library and package collection will aid our team during the implementation phase. Our team will use the following tools to communicate: the Discord social platform, Google Docs, and Microsoft Teams. In addition to these communication tools, our team will host in-person meetings when needed.

4.2 Software documentation
4.3 Project support functions
5. Work elements, schedule, and budget

This project is scheduled to be completed by August 1st, 2023. Listed below is the project deliverable due date

Deliverable	**Due By**
Preliminary Project	June 1, 2023
Interim Project I	June 15, 2023
Final Project I Submission	June 29, 2023
Interim project II	July 13, 2023
Final Project II Submission	August 1, 2023