# **Software Project Management Plan (Cybermining)**

CS 4376.0U1

Project Phase 1 - Preliminary Project Plan

Team Name: Summer Searchers

Team Members:

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Team URL: https://github.com/CS4376/Cybermining

# 1. Introduction

## 1.1 Project Overview

This project plan outlines the development and implementation of a simple web search engine, called Cyberminer. The system will incorporate features such as case-sensitive search, hyperlink enforcement, deletion of outdated URLs, sorted query results, pagination, autofill with error correction, and symbol filtering. The project will be executed in two phases, Phase 1 will be more focused on building indices, which will be evolved later into Phase 2. The goal is to deliver a user-friendly and comprehensive web search engine that improves the search experience for users.

## 1.2 Project Deliverables

| **Phase 1** | **Topic** | **Due Dates** | **Team Leader** |
| --- | --- | --- | --- |
| Deliverable 1 | Preliminary Project Plan | May 31 (\*June 1) | Matthew McCoy |
| Deliverable 2 | Requirements Specification | June 14 (\*June 15) | Andres Mancillas |
| Deliverable 3 | Interim Project 1 (Presentation) | June 14 (\*June 15) | Yong hyun Lee |
| Deliverable 4 | Architectural / Object Design | June 27 (\*June 29) | Fionne Tran |
| Deliverable 5 | User Manual (Preliminary) | June 27 (\*June 29) | Alaa Jalali |
| Deliverable 6 | Final Project 1 (Implementation) | June 27 (\*June 29) | Parsa Zilaee |

\*Due dates for submission.

## 1.3 Evolution of This Document

Edit history is available internally through Google Docs, and summarized updates of documents will be available on the meeting log at the end of this document.

## 1.4 Definitions, Acronyms, and Abbreviations

* UML - Unified Modeling Language

## 1.5 References

No necessary references are used to complete the Preliminary Project Plan.

# 2. Project Organization

## 2.1 Process Model

The process model that will be used for this project is the waterfall model because it is simple and straightforward to implement.

## 2.2 Organizational Structure

Below shows the list of team members. For team leaders on each deliverable, refer to 1.2.

* Yong hyun Lee
* Matthew McCoy
* Fionne Tran
* Andres Mancillas
* Parsa Zilaee
* Alaa Jalali

## 2.3 Organizational Boundaries and Interfaces

Team leads will have the responsibility of conducting meetings to ensure proper interaction along with facilitating communication among team members and deliverable submission during a specific phase. Each individual team member assigned to a task will be responsible for the corresponding documentation.

## 2.4 Project Responsibilities

Every team member is responsible for putting efforts until completion. In case of absences from regular meetings, prior notification and communication are expected to avoid any conflict within the team.

# 3. Managerial Process

## 3.1 Management Objectives and Priorities

The purpose and objects of management is to outline the project in detail to establish guidelines. Priorities are completion of the project, and efficiency of the program is not considered unless it is necessary.

## 3.2 Assumptions, Dependencies, and Constraints

Since the semester is fast-paced and condensed compared to regular semesters, continuous efforts are needed to complete the project. Unless all team members take serious responsibility, it is inevitable to have hardship. Hence, frequent periodic meetings are needed to build constant communication. Constraints are each member’s availability. Therefore, this project relies on individual work.

## 3.3 Risk Management

In case of losing data, at least one team member is expected to save into local drive. When an incident occurs, utilize Discord to alert and communicate with the team. For documents, Google Docs will be utilized and built-in restoring functions will be used in case of data loss. For source codes, GitHub will be utilized to trace back into commit histories

## **3.4 Monitoring and Controlling Mechanisms**

Each team member is expected to continuously monitor our Team Discord channel, Google Docs, and GitHub. Team leader on each deliverable is responsible to monitor the work and anticipate future needs to ensure the completion. If any constraints are found, it must be communicated in regular meetings. All team members should be involved in attempting to resolve any issues.

# 4. Technical Process

## 4.1 Methods, Tools, and Techniques

For UML design, Astah UML will be used. The programming language will be Python. The meeting will be held in Discord periodically throughout the semester. For any documents, Google Docs will be utilized. All final works will be uploaded on the team website; https://github.com/CS4376/Cybermining.

## 4.2 Software Documentation

For software documentation, Discord will be utilized for unofficial documentation. Finalized products will be uploaded and recorded on the Team website.

## **4.3 Project Support Functions**

For efficient communication amongst team members, Team Discord channel will be utilized. Screen sharing, virtual meeting, and message communication are supported in Discord. For workflow, GitHub will be utilized since it provides a history of commits and every change on coding.

# 5. Work Elements, Schedule, and Budget

Each team member is responsible to communicate with other team members periodically and participation is highly recommended at scheduled meeting time. Individual work is expected as discussed in regular meetings. Our team thrives integrity, accountability, and responsibility. Final submission dates for this project are: Phase 1 (Project I) by June 29th, 2023 and Phase 2 (Project II) by August 1st, 2023. Schedules on each deliverable are indicated on 1.2. Budget is not considered throughout the project.

## 5.1 Team Meetings

| **Members Present** | **Date** | **Time** | **Topic** |
| --- | --- | --- | --- |
| Andres Mancillas  Yong Hyun Lee  Matthew McCoy  Alaa Jalali  Fionne Tran  Parsa Zilaee | May 30, 2023 | 12:05pm | Meet and greet |
| Andres Mancillas  Yong Hyun Lee  Matthew McCoy  Alaa Jalali  Fionne Tran  Parsa Zilaee | May 31, 2023 | 7:00pm | Fleshed out Preliminary Project Plan |