Search Engine

Preliminary Project Plan

SE 6362.001

8/27/2020, Version 1.3

Team Lead:
Rotated each deliverable

Team Members:
Alfredo Mejia (axm180023)
Lauren Murphy (lam150230)
Chris Orton (clo140130)

Team Website:
http://www.utdallas.edu/~lam150230

Table of Contents

1.   Introduction

1.1   Project Objective

The objective of this project is to develop the software architecture for a web search engine based on KWIC (Key Word in Context) software architecture and implement a prototype of the software.

1.2   Project Deliverables and Schedule

1.2.1 Deliverables by Phase

We will provide copies of the deliverables on our website (http://www.utdallas.edu/~lam150230) and submit additional copies via email.

Phase	Items	Team Leader	Dates
Preliminary	Project summary, Team organization, Deliverables, Team website URL, Tool list	Lauren	8/27
Interim Phase 1	Requirements specification, Architecture specification, Program specification, Prototype, User Manual, Updated website URL	Chris	9/24
Final Phase 1	Revised requirements specification, Revised architecture specification, Revised program specification, Revised prototype, Revised user manual, Updated website URL	Alfredo	10/6
Interim Phase 2	Revised requirements specification, Revised architecture specification, Revised program specification, Revised prototype, Revised user manual, Updated website URL	Lauren	11/10
Final Phase 2	Revised requirements specification, Revised architecture specification, Revised program specification, Revised prototype, Revised user manual, Updated website URL	Chris	11/19

1.2.2 Deliverable Details

Deliverable	Description
Project summary	Overview of the project, a high-level summary of what it is and should roughly do
Team organization	Listing of the team members and what roles each plays
Deliverables	Listing of the due dates and content of the project deliverables to be handed in
Team Website URL	URL to point to the website for the team project, to contain a copy of all deliverables
Tool List	Listing of the software tools and other resources to be used by the team in order to carry out the project
Requirements specification	Detailed breakdown of the functional and non-functional requirements for the program
Architecture specification	Documentation on the structure of the program, and the decisions made to create that structure
Program specification	Documentation on how the program is configured and what is needed to get it set up to run
Prototype	Tentative working version of the program, with initial versions of some or all of the program's intended features
User manual	Description of the program from a user perspective, including what it can do and how to use it

(Refer to section 4 for the due dates for each deliverable.)

1.3   Evolution of This Document

Date	Changes
8/21	Document created, outline written by Lauren
8/24	Added preliminary deliverable descriptions by Chris
8/25	Revisions by Alfredo, Lauren and Chris
8/27	Final by Alfredo, Lauren and Chris

2.   Project Organization

2.1   Process Model

We will follow the Agile model to ensure flexibility in the face of change.

2.2   Organizational Structure

The team members are Alfredo Mejia, Chris Orton and Lauren Murphy. Each team member will have the chance to be the team leader as the role will rotate for each deliverable. The team leader will manage the team members and assign tasks for the completion of the deliverable.

3.   Technical Process

3.1   Methods, Tools and Techniques

The table below lists the tools that the team will use to develop the application.

Tools	Purpose
Python / Flask / etc.? [TODO]	Back-end development
HTML / CSS / JavaScript / Vue	Front-end development
Git / GitHub	Version control and repository
Google Docs / Drive	Host reports and enable collaboration