**KWIC Software Architecture**

#### Preliminary Project Plan

Team Website URL: <http://se4352jida.github.io/>

Team JIDA:

Irfa Mustafa – Team Leader

Drew Cannedy

Andre Cordero

James Lussier

CS 4352.0U1

##### Project Phase 0

**Team organization:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Member’s Name** | **Student ID** | **Email** | **Phone** |
| Drew Cannedy | dxc142830 | dxc142830@utdallas.edu | 940-781-4486 |
| Andre Cordero | aac150130 | aac150130@utdallas.edu | 832-233-2106 |
| James Lussier | jxl126730 | jxl126730@utdallas.edu | 214-577-9804 |
| Irfa Mustafa | ixm130530 | ixm130530@utdallas.edu | 972-900-1422 |

**Team leaders/deliverable:**

|  |  |  |
| --- | --- | --- |
| **Project Phase** | **Due Date** | **Leader** |
| Interim Project Phase I | June 12 (Tuesday) | Irfa Mustafa |
| Interim Project Phase I Presentation | June 12/14 (Tuesday/Thursday) | Irfa Mustafa |
| Final Project Phase I | June 21 (Thursday) | James Lussier |
| Interim Project Phase II | July 12 (Thursday) | Andre Cordero |
| Final Project Phase II | July 24 (Tuesday) | Drew Cannedy |
| Final Project Phase II Presentation / Demo | July 24/26 (Tuesday/Thursday) | Drew Cannedy |

**Team Contribution and Signature**

|  |  |  |
| --- | --- | --- |
| **Member’s Name** | **Contribution Percentage** | **Signature** |
| Drew Cannedy | 25% |  |
| Andre Cordero | 25% |  |
| James Lussier | 25% |  |
| Irfa Mustafa | 25% |  |

**Team Meetings:**

***Preliminary Plan (Phase 0)*** – No face to face meeting; only messaging on groupMe as needed

**1. Introduction**  
    **1.1 Project overview**

This project plan has been put together for easing the implementation of the KWIC Software Architecture. For this project, we will be designing and building a web-based search engine that will be generated by Github Pages. Our goal is to build an interface that is completely user-friendly, simple, and easy to use. We will design a software architecture that will implement a simple Key Word in Context system. The system will have a search bar that will take in any alphanumeric input that will be used as a key word in context. The architectural style will be completely Object-Oriented that will be available for access through the web page that we have generated on Github Pages. Furthermore, for this project, we will be utilizing the agile method wherein the system requirements will evolve as needed in four stages through collaborative effort.

**1.2 Project deliverables**

***Deliverable Due Date***

Interim Project Phase I June 12

Interim Project Phase I Presentation June 12 / 14

Final Project Phase I June 21

Interim Project Phase II July 12

Final Project Phase II July 24

Final Project Phase II Presentation / Demo July 24 / 26

**1.3 Evolution of this document**

This document will evolve throughout the entire project. The preliminary plan will be changed as needed within the various stages of the project.

**1.4 References**

Sample projects listed on the class website have been referenced along with the online template for this project.

**1.5 Definitions, acronyms, and abbreviations**

KWIC – Key Word in Context

**2. Project organization**

    **2.1 Process model**

The software process model that will be used for this project is Agile Method. The project will be completed and changed as needed throughout various stages. The number of stages for this specific project is four.

**2.2 Organizational structure**

**2.3 Organizational boundaries and interfaces**

**2.4 Project responsibilities**

**3. Managerial process**

    **3.1 Management objectives and priorities**

**3.2 Assumptions, dependencies, and constraints**

**3.3 Risk management**

**3.4 Monitoring and controlling mechanisms**

**4. Technical process**

**4.1 Methods, tools, and techniques**

The tools that we will be using to construct our project include Github Pages, Java, and Netbeans. Github Pages is a website design software that we are using due to our team member’s prior familiarity of this software. We will be using Github Pages to construct our website for this project. In order to create the search engine itself, we will be using the Java programming language in conjunction with the Netbeans Independent Development Environment. The reasoning beyond these choices is because most of our team members are more familiar with Java as opposed to other programming languages, and the same idea applies to the choice of Netbeans as compared to other programming environments. Furthermore, we are using the GroupMe application to facilitate the communication process between our team members. Lastly, Google Drive is being used in order to share files pertaining to the project.

**4.2 Software documentation**

**4.3 Project support functions**

**5. Work elements, schedule, and budget**

The deadline for this project is July 26, 2018. On this date, the final project will have to be submitted, and a demo will be given. In order to meet this deadline, parts of the project will be due in increments starting from June 12. The specifics of the timeline are listed below:

Interim Project Phase I June 12

Interim Project Phase I Presentation June 12 / 14

Final Project Phase I June 21

Interim Project Phase II July 12

Final Project Phase II July 24

Final Project Phase II Presentation / Demo July 24 / 26