Compensation Analysis Tool

Software Requirements Specification

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Contents

1 Introduction

1.1 Purpose

1.2 Objectives

The objective of this project is to produce a software tool used to assess and rank the most viable locations to start a career in a particular field. The software will produce a list of locations that offer the best income potential for a particular career or field using a mixture of employment and cost of living statistics. In addition, the software will include an option to consider the possibility of commuting in order to reduce the cost of living.

1.3 Scope

The application will be geographically limited to the United States and will only consider income related factors to arrive at a ranking. These limitations may be expanded upon in the future, but such enhancements are beyond the current scope of the application. The application will be implemented in Java and will be able to be run on any desktop, laptop, or other device with the ability to execute JAR (Java Archive) files.

The stakeholders of this project include the team members, the instructor and teaching assistants of the CAS 2XB3 course, and any persons seeking employment who would use the tool.

1.4 Definitions, Acronyms, and Abbreviations

1. to be completed.

1.5 Overview

2 Overall Description

2.1 Product Perspective

2.2 Product Functions

a)

2.3 User Characteristics

The user of this application is expected to...

2.4 Constraints

The following constraints apply in the development of our application:

1. All milestones outlined in the CAS 2XB3 project description must be met.

2. All deliverables must be completed in their final form by the due date given in the CAS 2XB3 project description.

2.5 Assumptions and Dependencies

The following assumptions were made in the development of our requirements:

1. The computer/device used to run the application will have the ability to execute JAR files.

2.6 Apportioning of Requirements

3 Functional Requirements

BE1. VP1.1 User

        i.

    VP1.2 Application

        i.

    VP1.3 Legal

        i.

4 Non-Functional Requirements

4.1 Look and Feel Requirements

4.1.1 Appearance Requirements

AR1.

4.1.2 Style Requirements

SR1.

4.2 Usability and Humanity Requirements

4.2.1 Ease of Use Requirements

EUR1.

4.2.2 Learning Requirements

LR1.

4.2.3 Understandability and Politeness Requirements

UPR1.

4.2.4 Accessibility Requirements

ACR1.

4.3 Performance Requirements

4.3.1 Speed and Latency Requirements

SLR1.

4.3.2 Precision or Accuracy Requirements

PAR1.

4.3.3 Reliability and Availability Requirements

RAR1.

4.3.4 Robustness or Fault-Tolerance Requirements

RFR1.

4.3.5 Longevity Requirements

LONGR1.

4.4 Operational and Environmental Requirements

4.4.1 Expected Physical Environment

EPE1.

4.4.2 Release Requirements

RR1.

4.5 Maintainability and Support Requirements

4.5.1 Maintenance Requirements

MR1.

4.5.2 Supportability Requirements

MSR1.

4.5.3 Adaptability Requirements

MAR1.

4.6 Security Requirements

4.6.1 Access Requirements

SAR1.

4.6.2 Privacy Requirements

SPR1.

4.7 Cultural and Political Requirements

4.7.1 Cultural Requirements

CCR1.

4.8 Legal Requirements

4.8.1 Compliance Requirements

LCR1.

5 References