http://sce.uhcl.edu/helm/rationalunifiedprocess/applet/images/artfc_w.gif [Artifacts](http://sce.uhcl.edu/helm/rationalunifiedprocess/process/artifact/ovu_arts.htm) > http://sce.uhcl.edu/helm/rationalunifiedprocess/applet/images/artfc_y.gif [Requirements Artifact Set](http://sce.uhcl.edu/helm/rationalunifiedprocess/process/artifact/ars_req.htm) > http://sce.uhcl.edu/helm/rationalunifiedprocess/applet/images/additional.gif [{More Requirements Artifacts}](http://sce.uhcl.edu/helm/rationalunifiedprocess/process/artifact/arp_req_add.htm) > http://sce.uhcl.edu/helm/rationalunifiedprocess/applet/images/ar_srs.gif [Software Requirements Specification](http://sce.uhcl.edu/helm/rationalunifiedprocess/process/artifact/ar_srs.htm) > http://sce.uhcl.edu/helm/rationalunifiedprocess/applet/images/ie.gif SRS w/ Use-Cases

**<Study Toolkit>**

**Software Requirements Specification**

**For <PC>**

**Version <1.0>**

*[Note: The following template is provided for use with the Rational Unified Process. Text enclosed in square brackets and displayed in blue italics (style=InfoBlue) is included to provide guidance to the author and should be deleted before publishing the document. A paragraph entered following this style will automatically be set to normal (style=Body Text).]*

**Revision History**

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Author** |
| < 26/3/2018> | <1.0> | <complete of the design document> | <Yi Wang> |
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**Software Requirements Specification**

**1.**                  **Introduction**

**1.1**               **Purpose**

It’s a website let people proved answer for questions. People can create an account then post a question on the website or search an answer of a question. Also, people can make commons or make modified to their own answer later. They can like or dislike an answer and see similar question on the sit. There is a profile page for each user, included the number of questions and answer that person post. There are two themes, one is coding, the other one is math. The name related to the math theme called math Toolkit which included most of the mathematical functions people can search for.

**1.2**               **Scope**

*Our Scope of this document is to describe all the requirements that this projects has and what the TAs ask them to do. And this project will be finished before May 20th*

**1.3**               **Definitions, Acronyms and Abbreviations**

*we use data base to store the question, answers and the users’ profile in our Study Toolkit*

**1.4**               **References**

**1.5**               **Overview**

**It gives an overview of the functionality of the product. It shows the use cases in the use case diagram and list how the use cases are intended to do.**

**2.**                  **Overall Description**

**2.1**               **Use-Case Model Survey**

**It has two active actors and one operating system.**

**The user and Administrator access the website by logging in through the internet.**

**The user many search answer, ask a question and answer a question. The administrator can manage the users and questions.**

**2.2**               **Assumptions and Dependencies**

**The existing user information system and search engines which reside on the server will continue to be supported until 2010.**

**The external interfaces of the user information system and search engines are as defined and will not be altered.**

**3.**                  **Specific Requirements**

**3.1**               **Use-Case Reports**

*3.1.1* **It has two active actors and one operating system.**

**Description: there will be a operating system for two actors to use**

**Actors: user**

**Precoditions: None**

**3.1.2: The user and Administrator access the website by logging in through the internet.**

**Description: User can access our study through the internet only, if there is no internet, there is no chance to access to our site.**

**Actors: user**

**Preconditions: none**

**3.1.3 Answering the question**

**Description: The user many search answer, ask a question and answer a question. The administrator can manage the users and questions.**

**Actors: user**

**Preconditions: none**

**3.2**               **Supplementary Requirements**

*There is no specific supplementary that include in any of the user case*

**4.**                  **Supporting Information**

*[The supporting information makes the****Software Requirements Specification****easier to use.  It includes:*

*•           Table of Contents*

*•         Index*

*•         Appendices*

*These may include use-case storyboards or user-interface prototypes. When appendices are included, the****Software Requirements Specification****should explicitly state whether or not the appendices are to be considered part of the requirements.]*

GUIDELINES FOR REQUIREMENTS

|  |  |  |
| --- | --- | --- |
| Checkpoints:  Software Requirements Specification  * The following basic issues should be addressed:   + Functionality: What is the software supposed to do?   + External interfaces: How does the software interact with people, the system's hardware, other hardware, and other software?   + Performance: What is the speed, availability, response time, recovery time of various software functions, etc.?   + Attributes: What are the portability, correctness, maintainability, security, etc. considerations?   + Design constraints imposed on an implementation: Are there any required standards in effect, implementation language, policies for database integrity, resource limits, operating environments, etc.? * Are any requirements specified that are outside the bounds of the SRS? This means the SRS   + Should correctly define all of the software requirements,   + Should not describe any design or implementation details,   + Should not impose additional constraints on the software. * Does the SRS properly limit the range of valid designs without specifying any particular design? * Does the SRS exhibit the following characteristics?   + Correct: Is every requirement stated in the SRS one that the software should meet?   + Unambiguous     - Does each requirement have one, and only one, interpretation?     - Has the customer's language been used?     - Have diagrams been used to augment the natural language descriptions?   + Complete     - Does the SRS include all significant requirements, whether related to functionality, performance design constraints, attributes, or external interfaces?     - Have the expected ranges of input values in all possible scenarios been identified and addressed?     - Have responses been included to both valid and invalid input values?     - Do all figures, tables and diagrams include full labels and references and definitions of all terms and units of measure?     - Have all TBDs been resolved or addressed?   + Consistent     - Does this SRS agree with the Vision document, the use-case model and the Supplementary Specifications?     - Does it agree with any other higher level specifications?     - Is it internally consistent, with no subset of individual requirements described in it in conflict?   + Ability to Rank Requirements     - Has each requirement been tagged with an identifier to indicate either the importance or stability of that particular requirement?     - Have other significant attributes for properly determining priority been identified?   + Verifiable     - Is every requirement stated in the SRS verifiable?     - Does there exist some finite cost-effective process with which a person or machine can check that the software product meets the requirement?   + Modifiable     - Are the structure and style of the SRS such that any changes to the requirements can be made easily, completely, and consistently while retaining the structure and style?     - Has redundancy been identified, minimized and cross-referenced?   + Traceable     - Does each requirement have a clear identifier?     - Is the origin of each requirement clear?     - Is backward traceability maintained by explicitly referencing earlier artifacts?     - Is a reasonable amount of forward traceability maintained to artifacts spawned by the SRS?   Reference: [[IEEE93](http://sce.uhcl.edu/helm/rationalunifiedprocess/process/referenc.htm" \l "IEEE93)]  [Copyright  © 1987 - 2001 Rational Software Corporation](http://sce.uhcl.edu/helm/rationalunifiedprocess/copyrite/copyrite.htm) |  | [[Display Rational Unified Process using frames](javascript:loadTop();)](javascript:loadTop();) |

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