IN PROGRES

Requirements Specification and Analysis

0.1

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REQUIREMENTS ANALYSIS DOCUMENT [1]

The Requirement Analysis Document (RAD) should be written after the use case model is stable, that is, when the number of modifications to the requirements is minimal. The requirements, however, are updated throughout the development process when specification problems are discovered or when the scope of the system is changed.

Please set your word processor’s language to English, enable spell checker to detect the misspellings, and follow the formatting in this document.

# Introduction

The purpose of this section is to provide a brief overview of the function of the system and the reasons for its development, its scope, and references to the development context (e.g., reference to the problem statement written by the client, references to existing systems, feasibility studies). The introduction also includes the objectives and success criteria of the project [1].

## Purpose of the System

## Scope of the System

## Objectives and Success Criteria of the Project

## Definitions, Acronyms, and Abbreviations

This subsection should provide the definitions of all terms, acronyms, and abbreviations required to properly interpret the RAD.

## Overview

This subsection should:

* Describe what the rest of the RAD contains
* Explain how the RAD is organized.

# Current System

If the new system will replace an existing system, this section describes the functionality and the problems of the current system. Otherwise, this section describes how the tasks supported by the new system are accomplished now.

# Proposed System

Documents the requirements elicitation and the analysis model of the new system

## Overview

Presents a functional overview of the system.

## Functional Requirements

Describes the high-level functionality of the system.

## Nonfunctional Requirements

Describes user-level requirements that are not directly related to functionality. This includes usability, reliability, performance, supportability, implementation, interface, operational, packaging, and legal requirements.

### Usability

### Reliability

### Performance

### Supportability

### Implementation

### Interface

### Packaging

### Legal

## System Models

Describes the scenarios, use cases, object model, and dynamic models for the system. This section contains the complete functional specification, including mock-ups illustrating the user interface of the system and navigational paths representing the sequence of screens.

### **Scenarios**

A scenario is an instance of a use case.

### **Use case model**

|  |  |
| --- | --- |
| *Use case name* | **Favorite Survey** |
| *Participating actors* | Registered User |
| *Flow of events* | 1. Registered user opens the SURVEYSYSTEM on the browser and logs in. 2. Registered user clicks on the search button and surveys page opens by the SURVEYSYSTEM. 3. Registered user finds the survey to save in the list view and clicks on the save button according to the chosen survey. 4. SURVEYSYSTEM opens a show a notification panel to give feedback that the survey saved successfully to registered users profile. |
| *Entry condition* | * Registered User must be logged in. |
| *Exit condition* | * Registered User successfully saved the survey to favorite surveys of the registered user. |
| *Exceptional Cases* | * None. |

|  |  |
| --- | --- |
| *Use case name* | **Unfavorite Survey** |
| *Participating actors* | Registered User |
| *Flow of events* | 1. Registered user opens the SURVEYSYSTEM on the browser and logs in. 2. Registered user clicks on the profile button and profile page opens by the SURVEYSYSTEM. 3. Registered user clicks on the Favorites tab on the profile page and the favorites tab opens in the profile page. 4. Registered user clicks on the unfavorite button of selected survey in the list view by the registered user. 5. Registered User successfully unfavorited the survey |
| *Entry condition* | * Registered User must be logged in. |
| *Exit condition* | * Registered User successfully unfavorited survey that registered user wanted. |
| *Exceptional Cases* | * None |

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| --- | --- |
| *Use case name* | **Delete Survey** |
| *Participating actors* | Registered User |
| *Flow of events* | 1. Registered user opens the SURVEYSYSTEM on the browser and logs in. 2. Registered user clicks on the profile button and profile page opens by the SURVEYSYSTEM. 3. Registered user clicks on the My Surveys tab on the profile page and the My surveys tab opens. 4. Registered user clicks on the delete button of selected survey. 5. SURVEYSYSTEM opens a show a notification panel to give ask that if registered user really want to delete the survey. 6. Registered User clicks “Yes” to unfavorite the survey [Decline] |
| *Entry condition* | * Registered User must be logged in. |
| *Exit condition* | * Registered User successfully deleted the survey that registered user wanted. |
| *Exceptional Cases* | * [Decline]: Registered user after initiated the process clicks “No” and after that SURVEYSYSTEM will show a message that gives a feedback about the cancelation. |

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| --- | --- |
| *Use case name* | **Edit Survey** |
| *Participating actors* | Registered User |
| *Flow of events* | 1. Registered user opens the SURVEYSYSTEM on the browser and logs in. 2. Registered user clicks on the profile button and profile page opens by the SURVEYSYSTEM. 3. Registered user clicks on the My Surveys tab on the profile page and the My surveys tab opens. 4. Registered user clicks on the edit button of selected survey. 5. SURVEYSYSTEM shows registered user to the edit survey panel. 6. Registered User edits the survey’s required information. 7. Registered User clicks “Save” to change the surveys info.  [Invalid character]: 8. Survey successfully edited. |
| *Entry condition* | * Registered User must be logged in. |
| *Exit condition* | * Registered User successfully edited the survey that registered user wanted. |
| *Exceptional Cases* | * [Invalid character]: SURVEYSYSTEM detects that a text box is empty or that a text box has got an invalid character and it displays a message saying invalid information and asks the Registered User to try again and displays the sell product page. |

|  |  |
| --- | --- |
| *Use case name* | **Check** |
| *Participating actors* | Registered User |
| *Flow of events* | 1. Registered user opens the SURVEYSYSTEM on the browser and logs in. 2. Registered user clicks on the profile button and profile page and page opens. 3. Registered user clicks on the My Surveys tab on the profile page and the My surveys tab opens. 4. Registered user clicks on the inspect button of selected survey. 5. Registered user forwarded to the inspection page 6. Registered User successfully inspected the statistics |
| *Entry condition* | * Registered User must be logged in. |
| *Exit condition* | * Registered User successfully see the statistic of the selected survey. |
| *Exceptional Cases* | * None |

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| --- | --- |
| *Use case name* | **Check All Surveys** |
| *Participating actors* | * Admin * Registered User * Unregistered User |
| *Flow of events* | 1. Actor opens the SURVEYSYSTEM on the browser. 2. Actors clicks on the surveys button. 3. SURVEYSYSTEM list the all surveys page for the actors. |
| *Entry condition* | * Actors must open the SURVEYSYSTEM on the browser. |
| *Exit condition* | * Actors successfully completed process. |
| *Exceptional Cases* | * None |

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| --- | --- |
| *Use case name* | **Ban User** |
| *Participating actors* | Admin |
| *Flow of events* | 1. Admin opens the SURVEYSYSTEM on the browser and logs in. 2. Admin clicks on the User List button and user list page opens by the SURVEYSYSTEM. 3. Admin selects a user from list and clicks ban button. 4. SURVEYSYSTEM shows a notification panel to ask that if Admin really want to Ban the user. 5. Admin clicks “Yes” to ban the user. 6. SURVEYSYSTEM bans the selected user successfully. |
| *Entry condition* | 1. Admin must be logged in |
| *Exit condition* | 1. Admin successfully completed banning process |
| *Exceptional Cases* | * None |

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| --- | --- |
| *Use case name* | **Search Survey** |
| *Participating actors* | * Admin * Registered User * Unregistered User |
| *Flow of events* | 1. Actors opens the SURVEYSYSTEM on the browser 2. Actor clicks on the search button and search page opens by the SURVEYSYSTEM. 3. Actor type a survey name to search panel and click search button. 4. SURVEYSYSTEM return actors the results. |
| *Entry condition* | 1. Actors must open the SURVEYSYSTEM on the browser. |
| *Exit condition* | 1. Actors successfully completed searching process. |
| *Exceptional Cases* | * . [Survey Not Found]: SURVEYSYSTEM can not found any result related to typed survey name and its displays a message saying Survey Not Found therefor ask to Actors try again with a different survey name. |

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| --- | --- |
| *Use case name* | **Share a (Existing) Survey** |
| *Participating actors* | * Admin * Registered User * Unregistered User |
| *Flow of events* | 1. Actor opens the SURVEYSYSTEM on the browser. 2. Actor clicks on the surveys button and survey page opens by the SURVEYSYSTEM. 3. Actor choses a survey from all survey list or uses Search Survey to select and open a survey. 4. Actor clicks on the share button of selected survey. 5. SURVEYSYSTEM shows Actor to the share survey panel. 6. Actor choses a sharing method from share survey panel. 7. Actor clicks share button and survey becomes shared. |
| *Entry condition* | 1. Actors must open the SURVEYSYSTEM on the browser. |
| *Exit condition* | 1. Actor successfully completed sharing process. |
| *Exceptional Cases* | * None |

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| --- | --- |
| Use case name | **Register** |
| Participating actors | Unregistered User |
| Flow of events | 1. Unregistered user opens the SURVEYSYSTEM on the browser. 2. Unregistered user is directed to the login page and clicks the sign-up button. 3. SURVEYSYSTEM opens the registration page and shows the registration form. 4. Unregistered user enters his/her information to the registration form and clicks the register button. 5. Account successfully created. |
| Entry condition | * None |
| Exit condition | * Unregistered user successfully became a registered user. |
| Exceptional Cases | * If given information doesn’t fit the password conditions, email conditions, “have to fill” blanks then SURVEYSYSTEM shows error messages. |

Fill Survey – Registered User/Admin

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| Use case name | Fill a Survey |
| Participating actors | Registered User |
| Flow of events | 1. Registered user opens the SURVEYSYSTEM on the browser and logs in. 2. Registered user clicks on the browse surveys button and surveys page opens by the SURVEYSYSTEM. 3. Registered user clicks on a survey and the sees the survey questions. 4. Registered user fills the survey questions’ answers. 5. Registered User clicks “Send” to save his/her entries. 6. SURVEYSYSTEM sends notification to the registered user to show a feedback that he/she filled the survey successfully. |
| Entry condition | * Registered User must be logged in. |
| Exit condition | * Registered User successfully filled the survey that registered user wanted. |
| Exceptional Cases |  |

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| --- | --- |
| Use case name | **Logout** |
| Participating actors | Registered User |
| Flow of events | 1. Registered user opens the SURVEYSYSTEM on the browser and logs in. 2. Registered user clicks on the logout button on the menu. 3. SURVEYSYSTEM directs the user to the login page. 4. The user successfully logged out from the SURVEYSYSTEM. |
| Entry condition | * Registered User must be logged in. |
| Exit condition | * Registered user became an unregistered user, as he/she logged out of the SURVEYSYSTEM. |
| Exceptional Cases |  |

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| --- | --- |
| Use case name | **Forgot Password** |
| Participating actors | Registered User |
| Flow of events | 1. Registered user opens the SURVEYSYSTEM on the browser and tries to log in. 2. Registered user clicks on the “Forgot Password” button on the login page. 3. SURVEYSYSTEM shows a form for the user to enter his/her mail address. 4. SURVEYSYSTEM sends an email to the user. 5. Password reset link is delivered to the user by email. The user clicks the link. 6. Link directs to the set a new password page. 7. Registered user sets a new password and logs in with that password. |
| Entry condition | * Registered User must be logged out. |
| Exit condition | * Registered user changed his/her password. |
| Exceptional Cases | * New password should fit the password conditions. |

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| *Use case name* | **Login** |
| *Participating actors* | Initiated by Registered User  Initiated by Admin |
| *Flow of events* | 1. Register User inputs username and password to related areas.  2.THESYSTEM searches this information in data stores and If THESYSTEM finds Registered User, THESYSTEM enable to log in by Registered User. |
| *Entry condition* | * THESYSTEM must be open. |
| *Exit condition* | * Registered User logs into the system successfully. |
| *Exceptional Cases* | * If Registered User enters wrong username or password, THESYSTEM sets an error message about login barrier. |

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| *Use case name* | **Create Survey** |
| *Participating actors* | Initiated by Registered User |
| *Flow of events* | 1. Registered User activates the function of Create Survey.  2. THESYSTEM presents that the form includes questions type, area for input question and answer type of question.  3. Create Survey has question types and answer types according to type of question. Registered User selects a type of question.  4.THESYSTEM shows options for types of answer.  5.RegisteredUser select an option for answer type and Registered User inputs its question and options. If Register User finishes to add new question, Register User calls complete survey function.  6.THESYSTEM accepts to create a new survey successfully. |
| *Entry condition* | * Registered User is logged into THESYSTEM. |
| *Exit condition* | * Registered User created new survey successfully. |
| *Exceptional Cases* | * None. |

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| --- | --- |
| *Use case name* | **Edit Profile** |
| *Participating actors* | Initiated by Registered User |
| *Flow of events* | 1.RegisteredUser goes to its profile and activates the Edit Profile.  2.THESYSTEM shows as a form user information and THESYSTEM enables to editing this information by Registered User.  3.RegisteredUser edits this information and Registered User activates confirm function.  4.THESYSTEM updates old information to new entered information and confirm the data system. |
| *Entry condition* | * Registered User must be log into THESYSTEM. |
| *Exit condition* | * Registered User activates confirm function. |
| *Exceptional Cases* | * Registered User activates cancel function. |

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| --- | --- |
| *Use case name* | **Search User** |
| *Participating actors* | Initiated by Registered User  Initiated by Unregistered User |
| *Flow of events* | 1. Registered User activates THESYSTEM.  2.THESYSTEM shows a form who has an area for searching and login, logout functions.  3.RegisteredUser enter the username into the search area and Registered User activates search function.  4.THESYSTEM shows related registered users according to searching filters.  5.RegisteredUser can access to related registered user profile.  6.THESYSTEM shows all surveys of searched user in a form. |
| *Entry condition* | * None. |
| *Exit condition* | * Registered User searches a username and THESYSTEM shows something about that. |
| *Exceptional Cases* | * If THESYSTEM cannot find user who entered username, THESYSTEM set an error message. |

### Object model

The analysis object model, depicted with UML class diagrams, includes classes, attributes, and operations. The analysis object model is a visual dictionary of the main concepts visible to the user.

### Dynamic model

The dynamic model is depicted with sequence diagrams and with state machines. Sequence diagrams represent the interactions among a set of objects during a single use case. State machines represent the behavior of a single object (or a group of very tightly coupled objects). The dynamic model serves to assign responsibilities to individual classes and, in the process, to identify new classes, associations, and attributes to be added to the analysis object model.

When working with either the analysis object model or the dynamic model, it is essential to remember that these models **represent user-level concepts, not actual software classes or components.**

### User interface—navigational paths and screen mock-ups

## Project Schedule

Prepare Gannt Chart and add it to this section.

# Glossary

To establish a clear terminology, developers **identify the participating objects** for each use case. Developers should **identify, name, and describe them** unambiguously and collate them into a glossary.

# References

This subsection should:

* Provide a complete list of all documents referenced elsewhere in the RAD, or in a separate, specified document.
* Identify each document by title, report number - if applicable - date, and publishing organization.
* Specify the sources from which the references can be obtained.

The following is an example of listing a book in this section. Check the text to see how it is cross referenced (The whole document is based on [1]).

1. Bruegge B. & Dutoit A.H.. (2010). *Object-Oriented Software Engineering Using UML, Patterns, and Java*, Prentice Hall, 3rd ed.