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Software Engineering (Lovely Professional University)

SOFTWARE REQUIREMENT SPECIFICATION DOCUMENT FOR QUORA.COM

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1. Introduction

This document is prepared in order to determine a software requirement specification for Quora. Quora is a social network question and answer system on which people ask various question regarding their queries and the people across the globe can answer the question. Also it is a kind of community which improves the knowledge of the user in every field. In order to gain an overview about the report, firstly, the purpose and scope of this document will be given, then an overall description of Quora system is followed. In addition to these, system features such as ask question, answer, profile etc are described deeply. After mentioning about the introduction of the software system, the specific requirements will be addressed for it. In the final part, functional and non-functional requirements will also be addressed.

1.1 Purpose

The SRS is needed to evolve as the development of the software product processes. The purpose of this document is to give a complete description about how Quora social network system can be developed. This document is to provide information about what the software product is to do to customers and establish an agreement between customers and suppliers and also become helpful for development. In addition to these, it provide a basis for validation and verification. The issues which are basically addressed are functionality such as asking questions, answer, profile, search, external interfaces, performance, attributes and the design constraints of the system.

1.2 Product Scope

The name of the software product is Quora. Quora is a question-and-answer site where questions are asked, answered, edited and organized by its community of users. Users can collaborate by editing questions and suggesting edits to other users' answers. The aim of Quora is to provide information to the users about each and every field of society.

2. Overall Description

2.1 Product Perspective

Quora is an independent and world-wide social network Question and answer website. Every person can use it online without a fee. The Quora is not a part of a larger system, it is an independent system. People from different regions of the world can connect to it and exchange information with other people. In order to control the contents of the sharing and Question asked by other people, Quora has also a control mechanism. People can deliver their complaints

about any part of the system to the Administrators. Then, Administrators might take appropriate actions according to the complained situation which is against the rules.

2.2 Product Functions

After creating an account and starting to use the Quora, first thing user will make is choosing the area of interest like various fields (science, politics, environment etc.). The user will search the field according to its name and add it as a field of interest. After the completion of choice submission the user will be provided with the questions related to their field of interest that are asked by different users of the community. Any user can share his/her question or answer like whatever he is thinking, whatever he wants to know. Other user can see his/her question and will be able to answer to it. Furthermore, if a user can search for a question also which can be already asked by some other user. Also a user can upvote or comment on the answers given by another user.

2.3 User Classes and Characteristics

Quora does not require any specific computer knowledge to use it except the developers and administrators of it. Standard users are thought to be from any age, any gender and from any nationality who can use just computer's browser. On the other hand, administrators and potential developers need a high level of expertise to understand web technologies.

2.4 Operating Environment

Quora is a website which can be used on any operating system. It can be searched over internet using any web browser. So no particular operating environment is required.

2.5 Design and Implementation Constraints

Being a social network website, the software should ensure the safety of information given by the user and provide some privacy settings options to the user. Firstly, Quora provides people the right to choose the category of people who will be able to view their shared items. Some users may not desire the access of some people to their shared items and information. If this is the case, users can set their privacy settings to prevent some people's access to their information.

Secondly, Quora cannot sell the private information of users to someone else. However, if the user permits, an application can access to some information of the user.

2.6 Assumptions and Dependencies

In this section, all normal and alternative flow of events are organized with the assumption that users or administrators are successfully reached their homepage by logging into the system. This assumption is made in order to describe specifications of the sub-features with better focusing.

3. Specific Requirements

3.1 Functional Requirements

The requirements for the software system are as follows

Functional requirement 1:

- **Description:** Login
- **Input:** Email and password are entered
- **Processing:** verifying the email
- **Output:** Login Successful

Functional requirement 2:

- **Description:** Register
- **Input:** Email, password, name and number are entered
- **Processing:** Verifying the email and phone number
- **Output:** Register Successful

Functional requirement 3:

- **Description:** Questioning phase
- **Input:** Question is asked with a limit of words and must have a brief description
- **Processing:** verifying question and removing any restricted content
- **Output:** Question displays

Functional requirement 4:

- **Description:** Answer
- **Input:** Answering the question which must be between 40 -200 words
- **Processing:** verifying the answer and removing the explicit content
- **Output:** answer submitted
-

Functional requirement 5:

- **Description:** Search
- **Input:** Search the specific topic or question
- **Processing:** searching the input in database

Output: results shown

Functional requirement 6:

- **Description:** comment
- **Input:** Commenting the answer which must be between 40 -80 words
- **Processing:** verifying the comment and removing the explicit content

Output: comment submitted

Functional requirement 7:

- **Description:** Profile
- **Input:** Uploading the profile picture and writing bio
- **Processing:** Uploading the pic

Output: Profile Updated

Functional requirement 8:

- **Description:** Upvote/Downvote
- **Input:** Upvote or Downvote the answer
- **Processing:** Null

Output: Upvote/Downvote registered

Functional requirement 9:

- **Description:** Anonymity
- **Input:** Question/Answer/Comment anonymously
- **Processing:** verifying the user

Output: Submitted

Non Functional Requirements

3.2 User Interfaces

The customer user interface should be intuitive, such that 99.9% of all new users are able to complete their goals without any assistance

3.3 Software Interfaces

The software interfaces are specific to the target social networking software systems.

Other Nonfunctional Requirements

Security Requirements

- Password should contain atleast 8 characters
- Password should contain atleast 1 number
- ReCaptcha should be used

4. External Interface Requirements

In this section, external interface requirements for user and communication channels will be described in order to clarify the relationship of this software with other entities and systems. In the first part, user's interfaces will be explained with the layout information, textual items and error handling types for two types of users of the system, as standard users and Quora administrators. In the second part, communication interfaces of our system will be described in order to explain the relationship with other systems which are sharing information with Quora.

4.1 User Interfaces

right top. Also there shall be a menu list which shall include "Logout" and "Account and Privacy Settings". At the top, there shall be "Home" and "Profile" buttons which are used for linking News Feed and user's own profile respectively. "Search" field which lets users search for particular topic etc. shall be located at the centre of the top in the whole processes.

All other features of the system shall be reachable by menu as a left sidebar such as top story, Bookmarked answers and the interested fields.

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4.2 Communications Interfaces

As a whole social networking website, Quora will be completely stand-alone system which lets other platforms connect, fetch and transform data in certain levels. Therefore, other platforms such as mobile phone applications, namely Quora for Android, iPhone, Windows Mobile etc., or other websites which want to use Quora integration will be connecting to the Quora main system by using Quora Platform.

5. System Features

In this section, all normal and alternative flow of events are organized with the assumption that users or administrators are successfully reached their homepage by logging into the system. This assumption is made in order to describe specifications of the sub-features.

5.1 Feeds

5.1.1 Top Story

This feature will be used to show the burning or top trending question and discussions related to the concerned field of user interests.

5.1.2 Bookmarked Answers

This feature will include all the question and answer which is bookmarked by the users.

5.2 Ask Question

There will be a search tab on the left top side of webpage where user will search the required question or answer which are answered by the other user of the Quora community.

5.3 Answer

Answer menu will provide user to answer to the various question available on the news feed for answering.

5.4 Read

Read menu will redirect the user to the top story page of Quora.

5.5 Notifications

The notification pane on the right top side of the interface will inform the user about the recent activities of the user and the notifications.

5.6 Settings

The setting panel will help the user to make some account settings like changing password, notifications setting , privacy settings etc.

6. Other Nonfunctional Requirements

6.1 Performance Requirements

System shall be available from all over the world at all times. Being a social network, any interruption in the sharing chain will cause people to give up on Facebook, therefore it is essential that the system shall be available at all times. System shall not be affected from the number of active users in the system until half of the registered users become active. Being a worldwide network, assuming that half of the registered users are reaching to the website is a legitimate and necessary requirement.

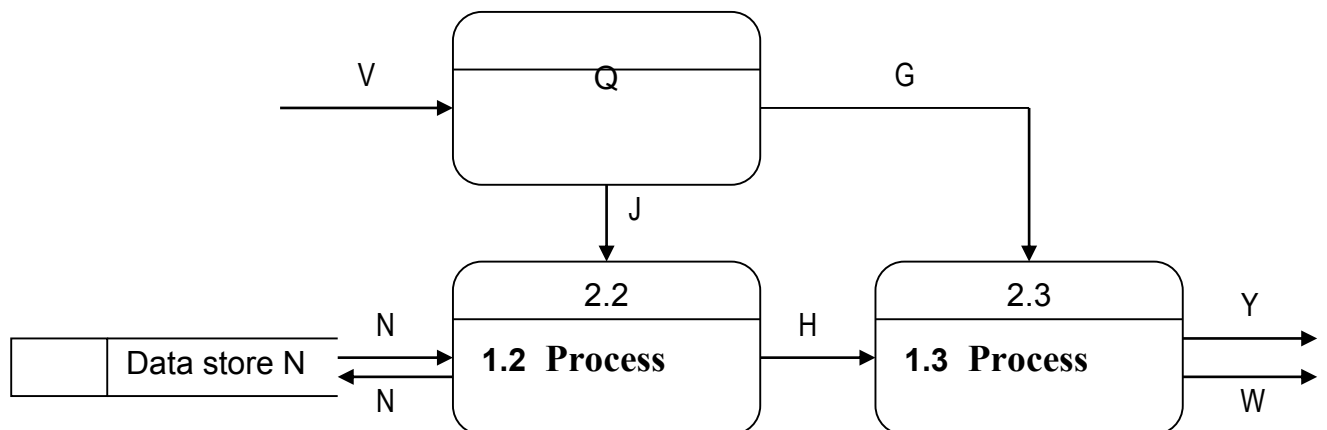
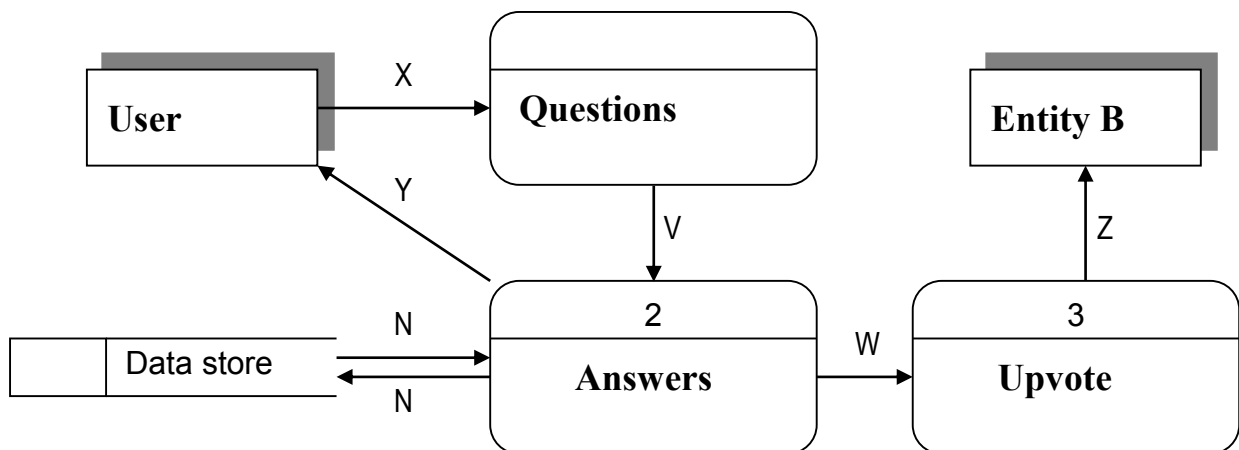
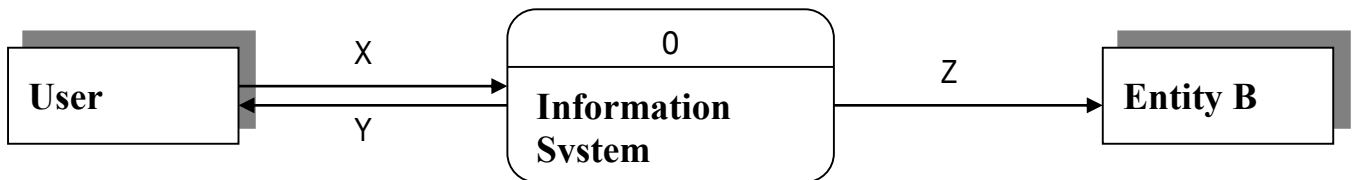
6.2 Design Requirements

Design of the system shall arrange the content size as compatible for different platforms, such as mobile phones, tablets and desktop computers. Since Facebook is based on sharing with friends, design of the system shall let high level of mobile access. Design of the system shall let different languages to be shown without affecting the general layout and operations. Being

a worldwide network, different language sets shall be able to shown as the main language of the website without creating any obstacles on the operations.

6.3 Security Requirements

As the account of each user is protected by a user id and password, any unauthenticated access to the account is not allowed. Also some privacy policies are also applicable to the user.



Data Flow Diagrams

