**SWE 574 Software Development As A Team, Fall 2015**

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**Project**

**Requirements Specifications Document**

**19.10.2015**

**Revision 1.0**

**By Group 1**

Revision History

|  |  |  |
| --- | --- | --- |
| **Revision** | **Date** | **Explanation** |
| 1.0 | 19.10.2015 | Initial requirements based on problem definition details and meetings with client |

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1. Introduction

Project will be a system for **communities of practice** to obtain better mechanism for **communication**, **documentation** and **coordination of information**. The system will have the features stated below:

2. Requirements List

The following table comprises a mapping between requirements list and use cases, it explores which use cases provide the functionality of each requirement.

| No. | Requirement | Use Case(s) |
| --- | --- | --- |
| 1 | Only registered users will be able to create communities. | Create Community |
| 2 | Community owner role may be able to determine other member’s roles. | Set Member Role |
| 3 | All the information provided in the initial state of community creation will be available for editing afterwards. | Update Community |
| 4 |  |  |
| 5 | Each community will have its own page containing questions and comments as posts in a chronological manner. |  |
| 6 | All the communities that are previously created will be listed in a community listing page. |  |
| 7 | Community listing page will provide a functionality to search all the communities using keywords. |  |
| 8 | The results of the community page will be shown in a separate page containing links to community pages. The most accurate search result will be at the top and the least will be at the bottom. |  |
| 9 | Community listing page will contain sorting options for easy access. The options for the sort will be:  a. Sort by title  b. Sort by creation date  c. Sort by number of participant |  |
| 10 | Total number of communities will be listed at the community listing page. |  |
| 11 | Community listing page will provide a list of popular tags. These tags will be clickable and once they are clicked they will be redirected to communities having that tag. |  |
| 12 | After the user logged in, the system will offer some communities that can be useful to the user. This list of communities will be created based on the communities the user has already joined and contributed. |  |
| 13 | The user will be able to perform following operations from the community page  a. Schedule a meeting  b. See previous meetings list  c. Observe the records of a previous meeting  d. Upload a document or multimedia related to the community by giving tags  e. Send notification e-mails to the community members |  |
| 14 | Community members will be able to create meetings. The creator of the meeting will be the meeting manager. |  |
| 15 | The meeting will have its agenda |  |
| 16 | The agenda will be determined by the meeting manager. |  |
| 17 | The meeting will have its time with specified time zone. |  |
| 18 | The meeting will have a specified duration. |  |
| 19 | The location of the meeting will be online or offline. IRC integration will be available for online meetings. |  |
| 20 | Meeting manager will be able to upload pre-reading documents before the meeting. |  |
| 21 | The manager of the meeting will be able to determine the roles of the meeting. Roles will be note taker, and attendants. |  |
| 22 | Meeting manager will be able to delegate managerial role to other members of the community. |  |
| 23 | Note takers will be able to create and upload meeting decision documents. |  |
| 24 | Attendants will be the joined members of the community. |  |
| 25 | Attendance to the meeting will be recorded by the system. |  |
| 26 | Meeting manager will be able to postpone or cancel the meeting. |  |
| 27 | visitors can register with those information below:   1. Name, 2. Surname, 3. email, 4. password, 5. profile photo, 6. location, 7. hobbies, 8. short cv |  |
| 28 | Members can create community |  |
| 29 | Creator of the community becomes community owner. |  |
| 30 | Users can update their information except email. |  |
| 31 | Users can search communities by tags |  |
| 32 | Users can send request to join any community |  |
| 33 | Community admins can approve the request for joining the community |  |
| 34 | Community admins can deny the request for joining the community |  |
| 35 | Users can search other users by user name or email |  |
| 36 | Roles of the system are listed below:   1. system admin 2. registered user 3. visitor 4. community admin (community owner) |  |
| 37 | Number of communities will be shown in a report |  |
| 38 | Number of members of each communities will be shown in a report |  |
| 39 | Total number of members will be shown in a report |  |
| 40 | Active meetings will be listed in a report |  |
| 41 | Total number of meetings will be shown in a report |  |
| 42 | Avarage number of members on a meeting will be shown in a report |  |
| 43 | Avarage number of members on a community will be shown in a report |  |
| 44 | System admin can see all reports on the web based system |  |
| 45 | System admin can authorize any registered user to see reports on web based system |  |
| 46 | All reports can be shown at web based system. |  |
| 47 | All reports cannot be shown at web based system. |  |

Table 1

2.1. Functional Requirements

2.2. Non-functional Requirements

3. Overall Use Case Diagram(s)

4. Use Case Descriptions

|  |  |  |
| --- | --- | --- |
| **No** | **Use Case** | **Description** |
| **1** | Create Community | Community Creation will be done by providing following information:  a. Title  b. Description  c. Tags  d. Initial member e-mails, names and their roles  e. List of outside people that can access community content  The creator of a community will automatically have the “community owner” role of the community.  System will send e-mail notifications after creation of the community. |

Table 2

5. Glossary

The Glossary list is shown in the table 1.

|  |  |
| --- | --- |
| **Term** | **Description** |
| Community | Communities are the spaces where people with an interest to a given topic meet. Inside communities various rich content can be found such as meeting notes, documents, papers, videos etc. |
| Visitor | Any unregistered user on system |
| User | Any registered user on the system |
| Admin | Administrator of the related system |
| Web Based System | The application which will be available on web. |
| Mobile Based System | The application which will be available on mobile devices. |

Table 3

References

1. <https://www.w3.org/community/>
2. Bennett-Object-oriented System Analysis and Design using UML 4thE