

# Software Requirements Analysis

## Communities : A Social Media Platform

### SM02

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## **1 Overview**

### **1.1 System Overview:**

### **1.2 System Context:**

### **1.3 Stakeholders of Communities:**

### **1.4 Scope of this Document:**

### **1.5 Definitions and Acronyms:**

## **2 Architecture Design**

### **2.1 Architecture 1: The Repository Model**

- This architecture revolves around the data repository, which contains communities data, user data, conversation data, roles data for communities, posts/comments data for communities and authorization data
- All other components are connected to data repository through different connectors

Component	Component Type	Description
<b>Data Repository</b>	Database	This module contains communities data, user data, conversation data, roles data for communities, post/comments data for communities, authorization data for users
<b>Create, Update, Delete User Profiles</b>	Database Insertion	This module creates, deletes and updates user profiles for which it deletes data from repository or insert different parameters in data repository
<b>Follow/UnFollow Users, View Followers</b>	Database Insertion and Database Access	This module allows user to view followers of other users and follow/unFollow other users in system
<b>Send, Receive Messages</b>	Database Access	This module provides a messaging interface to users to send and receive messages from different users
<b>Compute and Display user specific home feed</b>	Processing(database access)	This modules creates home feed specific to each user by using the people and communities they follows.
<b>Compute and Display common trending feed</b>	Processing(database access)	This modules creates trending feed common for all users by using the recent activity in communities.
<b>Vote in polls, Comment, Up-vote and Down-vote on comments and Posts</b>	Database Access	This module enables user to vote in polls created by other users, Comment on different posts, up-vote or down-vote on comments and posts created by other users
<b>Join, Leave Communities</b>	Database Access	This module enables users to send join requests or join directly to communities and leave communities joined before
<b>Create, View, Update and Delete Posts, Polls and Profiles</b>	Database Access	This module enables user too to create posts for communities, create polls, delete and update these posts
<b>Assign, Remove Moderator</b>	Database Access	This module enables community admin to assign new moderators and remove existing moderators
<b>Create and Update Community Guidelines</b>	Database Access	This module enables community admin to create and update respective community guidelines
<b>Create, Delete Communities</b>	Database Access	This module enables users to create communities and community admins to delete communities

Table 1: **Above Table contains components in the architecture:**