**Proposed solutions**

This is combination of software, hardware, other products or equipment, and all services necessary

to implement the solution to the problem statements.

➢ A good way for storing information in database

➢ System will provide timely reports from Raw Material Mining Analytics System to the societies.

➢ System will provide available and usability

➢ Saving time: it saves time to the Raw Material Mining Analytics System in the store while submitting report activities.

➢ Data security: we have seen that file cabinet can’t be compromised. They can’t be stolen, accidentally destroyed or last but the database adds another level of security to valuable information

➢ Storage facilities: the database shall be stored in the facility unaffected by divesting events such as fire or thievery and back up is ready to be made.

➢ Easy to search: when we looking for specified information, with simple query, a database will pull up information needed immediately instead of running thought endless piles of paperwork. The new system will be able retrieve the information of sales and purchases and related support and how that management has been done in order to recall information.

➢ Report: id there are change made, the use of a database will help to produce desired reports.

➢ Simple queries in a database can quickly retrieve the information needed when searching for a certain item, saving time spent digging through countless files of paper. The information can be retrieved via the new system.

**Functional Requirements**

A functional requirement is the properties of the system or description of the service that the software must offer. It describes a software system and presented below are functional requirements:

❖ The system should allow the administrators to view all data in the online

❖ The system should allow the administrators to approve verified profile of Raw Material Mining Analytics System

❖ They should be in position of managing all registered user accounts.

❖ Users should create an account in order to login to the system

❖ Users should provide user name and password while logging in

❖ Admin should approve manager’s account to give him/her privileges for getting full access to the system.

❖ Admin should control and manage all Raw Material Mining Analytics System activities done in the system

❖ Admin should view all registered users

❖ Admin should activate or inactivate users

❖ The system will also support users in the communication process

❖ It will system owners to inactivate a dairy account in case there are the violation of agreements.

❖ System must be able to make search user’s details in the database based on selected search type.

❖ System must be able to enter issue information in the database

❖ System must be able to display success message when registration is successfully or error message when there are some errors

❖ System should provide a user-friendly environment for the users.

**Non-Functional Requirements**

It’s the characteristics of the system or is a requirement that lists standards rather than particular actions that can be used to evaluate how a system performs. It details a software system's quality attribute. They assess the software system according to non-functional criteria such as responsiveness, usability, security, portability, and other criteria that are essential to the software system's success.

➢ Maintainability:

▪ The system should be easily to maintain it, once is needed

➢ Security:

▪ The system must be able to hide the user’s information

▪ Only church leader of parish can generate reports

▪ The system includes all available safeguards from viruses, worms and Trojans Etc.

▪ For any user to access the system they must enter on the login panel the valid username and password.

▪ After the system will authenticate to check if the credentials belong to the right person.

➢ Operational:

▪ The system should be able to run on any operating system.

➢ User friendly:

▪ The System will be user friendly

▪ The system must be easy for a user to user.

➢ Privacy:

▪ The system shall be able to protect the user’s privacy

➢ Availability:

▪ The system must be available.

▪ The system shall not have unexpected downtime

▪ The ability of a system to operate continuously without failing for a designated period of time.

➢ Performance

▪ The system must perform user requests within few sec.

▪ The system shouldn’t exceed 20 secs performance in case of downtime.

▪ The user request will not exceed 2 clicks in maximum to be completed.

▪ The system will be running for 24 hours a day.

➢ Storage

▪ The system should be cloud based completely.

➢ Accessibility

▪ The system should be accessible via laptop or other programmed electronic device such as computers, phones and tablets.

▪ Anyone who requires the system should be able to access it online. in addition, all authorized users must have access to the system processes. Humidity and cement quality measure, then give analytics

**Topic: raw material mining analytics system**

**Case study: CIMERWA- Mining department**

**Problem:**

* **Lack of information**
* **Poor quality control for mining materials**
* **Unmanaged environmental control**

**Solution:**

* **Software that analyze the research, data entered, generate analytical reports, help in decision making of production**