

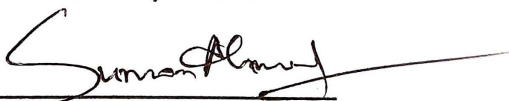
PIMS and R&D Management for BCSIR

Submitted As,
Project Proposal of Software Project Lab 2 (SE505)

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1. Introduction

PIMS (Personal Information Management System) and R&D (Research and Development) Management is a web-based application to manage information, research journal, article etc and broadcast it for BCSIR(Bangladesh Council of Scientific and Industrial Research). The scientist or researcher can share their personal information and publications with others and make connections with other or same people or organizations. They can also search for their interests among people, topics, and other options. It also generates a graph of connectivity.

1.1 User Perspective

Users outside the organization can search, browse and view the information provided by the organization. Users inside the organization can also view the information and can perform different functionalities authorized by the organization.

1.2 System Perspective

Different times the system takes different data or creates a new data stream, organizing the data for the best optimized search-time for the user.

2. Scope of the Project

2.1 Account creation

An administrator or organization head can create an account for their employee and provide a one-time password. The first time a user logs in, he or she must change his or her password. Then he or she can customize his or her profile.

2.2 Customized Organization

The administrator can create a department, assign a head and one of them can add others members of the department and so on.

2.3 Authorized Publication

The researchers can respond to a project call, submit their proposal, budget or other information. They can publish their work by mentioning authorized persons.

2.4 Easy Collecting

The BCSIR head can collect all the proposals at once easily and make a quick decision from the sheet of proposals.

2.5 Log in

The user can log in to this system using his email and password. When a user forgets his or her account password, he or she can recover it by entering his or her email address. A one-time password was sent to his email. After entering the one-time password, he or she can set a new password.

2.6 Change password

The user can change their password after successfully logging in. He or she must provide the old password and then enter the new one; if the old password is valid, the system will allow the user to change his password based on the password strength criteria.

2.7 Add information

The user can add personal, educational, and organizational information in any format. They also added pictures, their achievements, and other information as needed. They can also customize their profiles using different designs. They can also add connections with people, departments, and any other organizations.

2.8 Network connectivity graph

It can generate a connectivity graph from connections. This graph depicts connections between one person and others, such as a department, organization, student, and so on. There is a brief decryption for each connection. The user can see all connection details by clicking on the desired connection.

2.9 Customization

This web-based application can be used by any organization in a particular sector. When any organization uses this, they can customize it. They also add any section or delete any area and can set who can see what kind of information.

2.10 Searching

Any user can search for people in this system according to their interests, organization, country and topic who are engaged with it. It makes it simple for users to find a definite person.

2.11 Communication

One person can communicate with other people. They can message each other.

3. Motivation

This web-based software is used to organize and manage information for an organization. For the scientists of BCSIR, it is seen that they lost a good number of hours almost everyday for administrative work. Implementation of this project will save that hour for them and will make things easier. It will connect members of the organization. Any user can easily find a person on this website and see the detailed information provided by the organization by searching. The researcher can upload their publication easily in an authorized manner. This will increase connectivity among the researchers. The connectivity graph will help the user or website visitor find a person easily. It will also increase our knowledge about different topics when developing the project and open a door to learning and implementing different software design patterns.

4. Work Plan

- Collecting Software Requirement from the stakeholders
- Verify the requirements by the stakeholders.
- Then start preparing an SRS (Software Requirement and Specification) document according to the stakeholder's requirement.
- Complete the SRS document within the 7th week of this semester.
- Then start developing the the project according to the SRS documentation
- Finally complete the project within 12th to 14th week and hope to implement the project at the company.

Task Name	W-1	W-2	W-3	W-4	W-5	W-6	W-7	W-8	W-9	W-10	W-11	W-12	W-13	W-14
Proposal Submission														
Requirement Collect														
Design (SRS)														
Development														
Testing and Implementation														

FIGURE: Gantt Chart for Workplan