SDG-RAIT Summer Internship Program 2020
Project Proposal
Faculty Expertise Management Tool

Name of Project Guide- Mrs. Preet Chandan Kaur

Type of Project- In-house

Source of Project-Department of Computer Engineering

Name of person who allocated the project- Dr. Leena Ragha (Head of Department of Computer Engineering.)

1. Abstract

The purpose of faculty expertise management tool is to organize, maintain and track all the faculty expertise data so that their valuable data/information can be stored for a longer period with easy access and manipulation of the same. faculty expertise management tool can lead to error free, secure, reliable and fast management system. It can assist the user to concentrate on their other activities rather than to concentrate on the record keeping. Thus, it will help the organization in better utilization of resources. The organization can maintain computerized records without redundant entries. This means that one need not be distracted by information that is not relevant, while being able to reach the information.

2. Background of project

A recent discussion suggests establishing a software where knowledge and personal development activities performed by each faculty in a academic semester is recorded in proper format for future reference. It will also keep the record of all forms of publications such as journals, conferences, consultancy projects, book publications, patent copyright, book chapter and faculty details such as faculty as resource person, Competitive exams, qualification until date, awards, Faculty Promotion and faculty long live. All this information is maintain at individual and department level. A well-organized document repository in order to reuse information throughout the department is creating new opportunities for collaboration, coordination, and information exchange among faculties.

3. Objectives

- The main objective of the project on faculty expertise management tool is to manage the details of each faculty.
- To collect all data related to faculty expertise at one place and can be accessed online.
- To upload each document as per information is filled by individual faculty.
- Generation of Automated report for each faculty at individual and department level.

4. Proposed Work

The system will provide the login for HOD of department and faculty login after registration. After the login faculty needs to fill faculty expertise details. Once information is been collected and stored in system , then faculty needs to upload the documents.Therefore each detail entered by them online will reduce the work of submitting documents manually by each faculty. Once HOD login is done, faculty wise data of faculty expertise details can be seen at department level. This will ease the work of both faculty and R & D coordinator. Department level and individual report can be generated from which faculty can also keep a record of their own data. The generated report will be useful for quality assessment process.

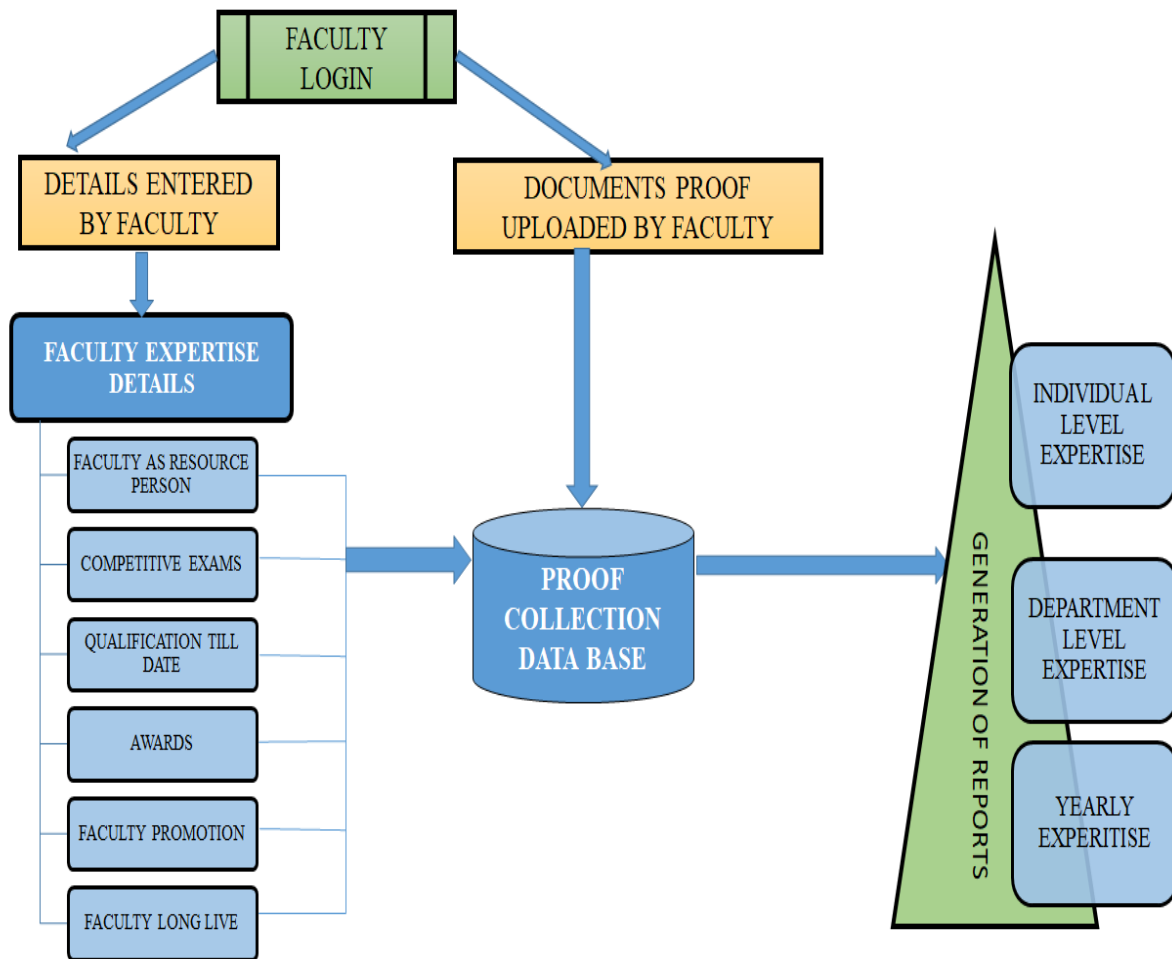## 5. Proposed Design of Project (Architecture / Module/ Workflow Diagram)

FIGURE 1: WORKFLOW DIAGRAM OF SYSTEM

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Figure 1. Describes workflow of the system. Steps included will be as follows: -

Step 1: - Login (Faculty and HOD)

Step 2: Faculty will fill the details of publication and details of faculty.

Step 3: In Faculty details faculty needs to fill following components

3.1: Faculty as Resource Person: Includes following components

Sr. No.	Name of Faculty	Resource person as Expert speaker /Judge / Chairperson/ Reviewer (for paper or Ph.D. related) / Lectures in Industry	Topic Name of Expert Talk /Judge / Chairperson/ Reviewer /Lectures in Industry	Event Name/ Course Name	Local / State / National / International Level	Venue	Date

3.2 Competitive Exams: Includes following components

Sr. No.	Faculty Name	PET Appeared	Date of PET Exam	PET Score	Gate Appeared	Date of GATE Exam	Gate Score

3.3 Qualification till-date: Includes following components

Sr. No.	Faculty Name	Admitted for Programme	Specialization / Department	Year of Admission	University	Registration Number	Name of college	Status	Research Topic Name / Course Topic Name	Guide Name

3.4 Awards: Includes following components

Sr. No.	Faculty Name	Name of Award	Position 1st / 2nd / 3rd / …..	Name of Event	University	Name of college	Local / State / National / International

3.5 Faculty Promotion: Includes following components

Sr. No.	Faculty Name	Faculty Date of Joining	Faculty SDRN Number	RAIT Experience	Other Teaching Experience	Industry Experience	Total Experience	Designation of Faculty as on date of joining	1st Promoted Designation	Date of 1st Promotion	2nd Promoted Designation	Date of 2nd Promotion

3.6 Faculty Long Live: Includes following components

Sr. No.	Faculty Name	Reason For Long Live	From Date	To Date	Date of joining after Long Live

Step 4: Final report will be generated at the end of every semester, which will have department level, and individual level report.

Step 5: Final report will contain the soft copy of each document related to faculty details and publication details, which in turn helps us in collection information at single place.

6. Hardware Requirements.

1. Processor- Intel(R) Core.
2. System Type- 64-bit Operating System.
3. Memory- 4GB RAM.

Software Requirements: -

1. PHP
2. MySQL
3. WordPress

7. Scope/ Benefits of System

- Editing, adding and updating of records is improved which result in proper resource management of faculty data.
- In computer system, it is not necessary to create the manifest but we can directly print it, which saves our time.
- Easy to generate the report and understand by the user and operator**.**

8. Conclusion

Faculty efforts for completing various achievements are recorded and stored online which in turn will reduce the task of manual data collection of faculty. The report generated will sum up the work of department and individual faculty.

Submitted by - (Mrs. Preet Chandan Kaur, Department of Computer Engineering)

Approved by – In house Committee and Dr. Leena Ragha.