**Experiment 1**

**Prepare an SRS document in line with the IEEE recommended standards for the Faculty Contribution Management System. (Functional Requirements)**

1. **Introduction**

* The Faculty Contribution Management System is a software application designed to streamline and automate the process of tracking, managing, and evaluating faculty contributions within an academic institution.
* This system aims to provide a centralized platform for Journal Publications, Book Publications, Patents, Faculty Development Program and Registered Faculty.

1. **Scope**

* The Faculty Contribution Management System will include the following features:
* Faculty profile management, including personal information, educational background, and professional experience.
* Submission and management of research publications, including journal articles, conference papers, books, and patents.
* Tracking and evaluation of teaching activities, such as courses taught, student evaluations, and teaching awards.

1. **Functional Requirements**

**3.1 User Management**

* + The system shall provide user authentication and authorization functionalities for administrators, department heads, and faculty members.
  + Administrators shall have the authority to create, edit, and deactivate user accounts.
  + Users shall have different access levels based on their roles (administrator, department head, faculty member) to access relevant functionalities.

**3.2 Faculty Profile Management**

* + Faculty members shall be able to create and update their profiles, including personal information, contact details, educational qualifications, and professional experience.
  + Faculty members shall have the option to upload their CVs and other relevant documents.
  + Department heads shall have the authority to review and approve changes to faculty profiles.

**3.3 Journal Publications Management**

* + Faculty members shall be able to submit information about their journal publications, including title, authors, publication type, publication venue, and publication date.
  + The system shall support the upload of documents or links to full-text publications.
  + Administrators and department heads shall have access to review and approve publication submissions.

**3.4 Book Publications Management**

* + Faculty members shall be able to submit information about their book publications, including title, authors, publication type, publication venue, and publication date.
  + The system shall support the upload of documents or links to full-text publications.
  + Administrators and department heads shall have access to review and approve publication submissions.

**3.5 Patents Management**

* + Faculty members shall be able to submit information about their patent, including title, authors, patent type, patent venue, and patent date.
  + The system shall support the upload of documents or links to full-text patent.
  + Administrators and department heads shall have access to review and approve patent submissions.

**3.6 Professional Development Management**

* + Faculty members shall be able to log professional development activities, such as workshops, conferences, seminars, and grants.
  + The system shall capture details such as event names, dates, organizers, and participation levels.
  + Administrators shall be able to review and approve professional development activities.

**3.7 Reporting and Analytics**

* + The system shall provide pre-defined and customizable reports on faculty contributions based on various criteria, such as publication types, teaching evaluations, committee roles, and professional development activities.
  + Administrators shall have access to analytics dashboards for monitoring faculty contributions trends and performance metrics.

**3.8 Integration**

* + The system shall be capable of integrating with existing institutional databases and systems, including HR databases, student information systems, and academic databases, to synchronize user information and streamline data exchange.

**4. Non-Functional Requirements**

**4.1 Usability**

• The system shall have an intuitive user interface with clear navigation and user-friendly forms for data entry.

• The system shall support multiple languages and be accessible from different devices and browsers.

**4.2 Performance**

• The system shall be capable of handling a large volume of data and concurrent user requests without significant performance degradation.

• Response times for common tasks, such as data submission and report generation, shall be within acceptable limits.

**4.3 Security**

• The system shall implement robust security measures to protect sensitive faculty information, including encryption of data transmission, role-based access control, and regular security audits.

• User authentication shall be based on strong password policies and may include multi-factor authentication for enhanced security.

**4.4 Reliability**

• The system shall be highly available, with minimal downtime for maintenance and upgrades.

• Data integrity shall be ensured through regular backups and data validation checks.

**4.5 Scalability**

• The system architecture shall be designed to accommodate future growth in the number of users and volume of data.

• Scalability options, such as cloud hosting and horizontal scaling, shall be considered for long-term sustainability.