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24.04.2026

EXPRESSION OF INTEREST FOR IQAC DATA COLLECTION MODULE

Expression of Interest (EOI) is hereby invited from the reputed agency/firms for design and development of **"IQAC Data Collection Module"** subject to terms and conditions mentioned in Annexure – I.

Interested vendors may submit their quotation for the above to the following address on or before 18.05.2026.

DIRECTOR, IQAC
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Sd/-
Registrar

Copy to:

1. Director, IQAC
2. System Analyst – to upload on CUK Website
3. PS to VC
4. PS to Registrar

Proposal for IQAC Data Collection Module

Technical Specification

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1. Introduction

NAAC Accreditation Management Software is a comprehensive digital platform designed to assist higher educational institutions in managing and organizing accreditation-related documentation and data in a structured manner. The platform enables institutions to systematically collect, verify, approve, and compile accreditation-related records from various departments through a centralized system. The software promotes transparency, accountability, and streamlined collaboration between institutional leadership, accreditation coordinators, and departmental teams. The system operates entirely through a secure **cloud-based infrastructure**, ensuring accessibility, reliability, and data security without requiring on premise installations.

2. Deployment Model – Cloud Infrastructure

operates on a **secure cloud-based Software-as-a-Service (SaaS) model**.

Key Characteristics

- Hosted on secure cloud servers
- Accessible through web browsers

- No local installation required
- Automatic updates and maintenance
- Secure backup and disaster recovery

Cloud Infrastructure Benefits

- Remote access from any location
- High system availability
- Scalable server resources
- Reduced IT maintenance requirements
- Secure encrypted data storage

The platform is designed to operate on globally trusted cloud environments compatible with infrastructure providers such as AWS, Azure, or equivalent secure cloud services.

3. Technology Stack

Layer	Technology
Frontend	HTML5, CSS3, JavaScript
UI Framework	ReactJS / Angular
Backend Framework	Node.js / Laravel (PHP Framework)
API Framework	RESTful API Architecture
Database	MySQL / PostgreSQL
Hosting Environment	Linux-based Cloud Servers
Document Storage	Encrypted Cloud File Storage
Authentication	Role-Based Access Control (RBAC)
Security Layer	SSL Encryption and Firewall Protection
Integration Capability	API-based integration with ERP or institutional systems

4. System Architecture

a modular multi-layer architecture to ensure performance, scalability, and security.

4.1 Presentation Layer

This layer includes the user interface and dashboards through which users interact with the system.

Features include:

- Web-based responsive interface
- Dashboard visualizations
- Document upload interfaces
- User-specific access panels

4.2 Application Layer

This layer handles business logic and operational workflows.

Key components include:

- Workflow automation
- Role-based authorization
- Data validation mechanisms
- Reporting and analytics

4.3 Data Layer

The data layer manages structured storage and retrieval of all accreditation-related data.

Components include:

- Relational database
- Secure document storage
- Data indexing and search capability

4.4 Integration Layer

The system supports integration with institutional systems through APIs.

Capabilities include:

- ERP integration
- Data import/export
- External reporting compatibility

5. User Roles and Access Management

supports structured access control using role-based permissions to ensure accountability and proper workflow management.

Role	Responsibility
Super Administrator	Overall system configuration and monitoring
Accreditation Coordinator	Institutional accreditation process management
Criteria In-Charge	Oversight of assigned accreditation sections
Department Coordinator	Upload departmental information and documentation
Verifier	Validate submitted data and supporting documents
Approver	Final approval of verified documentation
Viewer	Read-only access for institutional leadership

Each user receives access only to the modules and functions relevant to their assigned role.

6. Functional Modules

6.1 Accreditation Documentation Management

The platform enables structured documentation management for accreditation preparation.

Features include:

- Metric-wise documentation entry
- Supporting document uploads
- Organized documentation repository
- Data categorization and tagging

The system ensures that all institutional data is stored in a standardized digital format suitable for accreditation requirements.

6.2 Department Data Management

Departments can upload their respective data directly into the system.

Capabilities include:

- Department-level login access
- Data submission forms
- Upload of supporting documents
- Department-level monitoring of submissions
- Centralized storage of departmental records

This approach ensures decentralized data collection while maintaining centralized oversight.

6.3 Workflow Management (Verification and Approval)

a multi-level workflow process for documentation validation.

Typical workflow structure:

Department Submission

↓

Verification by Authorized Personnel

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Review by Accreditation Coordinator

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Final Approval

Key features include:

- Verification remarks
- Document rejection and resubmission
- Workflow status tracking
- Complete audit trail

6.4 Criteria In-Charge Assignment

The system allows institutional administrators to assign responsible personnel for specific accreditation sections.

Features include:

- Faculty assignment as section coordinators
- Responsibility distribution across departments
- Monitoring of submission progress
- Accountability tracking

6.5 Centralized Document Repository

All accreditation-related documents are stored in a structured digital repository.

Features include:

- Organized folder hierarchy
- Department-based document classification
- Secure cloud document storage
- Version management
- Easy document retrieval

6.6 Final Documentation Compilation

The software supports automated compilation of accreditation documentation.

Capabilities include:

- Consolidated document generation
- Section-wise documentation export
- Centralized report preparation
- Structured institutional documentation

This functionality significantly reduces manual effort involved in final documentation preparation.

6.7 Monitoring Dashboard

The system provides real-time dashboards to monitor accreditation readiness.

Dashboard insights include:

- Submission progress tracking
- Pending verification items
- Department submission status
- Approval workflow status
- Overall institutional progress indicators

7. Security and Data Protection

strong security standards to ensure protection of institutional data. Security

features include:

- SSL encrypted data transmission
- Role-based access control
- Secure cloud data storage

- Regular system backups
- Activity logs for audit monitoring
- Firewall protection

These measures ensure confidentiality, integrity, and availability of institutional data.

8. Scalability and Performance

The system is designed to support institutions of varying sizes.

Key scalability features:

- Cloud-based infrastructure
- Support for multiple departments and users
- High document storage capacity
- Concurrent user access management
- Load-balanced server environment

9. System Requirements

Component	Requirement
Device	Desktop / Laptop / Tablet
Browser	Google Chrome, Microsoft Edge, Mozilla Firefox
Internet Connectivity	Stable broadband connection
Supported File Formats	PDF, DOCX, XLSX, JPG, PNG

Since the system is cloud-based, no additional hardware or software installation is required.

10. Key Benefits

- Structured accreditation documentation management
- Centralized institutional data repository
- Role-based workflow and accountability
- Secure cloud-based access
- Reduced manual documentation effort
- Real-time monitoring of accreditation preparation

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