



# LOGICRAFT

BdREN Software Development Team

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LogiCraft is the dedicated software development arm of BdREN, driven by a mission to empower the education and research community through innovative software solutions. Aligned with BdREN's overarching mission and vision, LogiCraft plays a pivotal role in advancing digital transformation across academic and research institutions in Bangladesh.

With a focus on addressing real-world challenges, LogiCraft develops tailored, high-quality software that enhances communication, collaboration, and operational efficiency. The team is committed to creating platforms that foster innovation, streamline processes, and enable seamless access to cutting-edge technologies.

Comprising a group of skilled and passionate developers, LogiCraft thrives on delivering impactful solutions that strengthen the academic and research ecosystem. Whether building tools for information dissemination, resource optimization, or strategic collaboration, LogiCraft is at the forefront of driving excellence in education and research through technology.

# INTRODUCTION

# OBJECTIVE



## // VISION

To be a regional leader in digital transformation for research and education, empowering institutions with innovative technology and software.



## // MISSION

To develop and deliver innovative, high-quality software solutions that enhance communication, collaboration, and information dissemination within the education and research communities, thereby accelerating the growth of Bangladesh's knowledge and information society.

# MESSAGE FROM THE HEAD OF THE SOFTWARE DEVELOPMENT TEAM

As the Head of LogicCraft – The Software Development Team of BdREN, it is both an honor and a privilege to lead such a talented and innovative team. At LogicCraft, our mission is to create software solutions that empower the education and research community while also addressing the evolving needs of the commercial market. We are committed to improving communication, collaboration, and operational efficiency through the development of cutting-edge technologies. This mission is aligned with BdREN's broader vision of advancing the knowledge society in Bangladesh.

In addition to our work within the education and research sectors, LogicCraft is now expanding into the commercial market. Our team recognizes the growing demand for reliable, scalable, and customized software solutions across a variety of industries. This diversification allows us to apply our expertise to new challenges, creating solutions that benefit not only educational institutions but also businesses seeking to optimize their operations.

Every member of our team brings unique skills and perspectives, which combine to deliver high-quality, impactful solutions. Whether we are developing tools for resource management, facilitating collaboration, or creating custom software for commercial clients, we remain committed to excellence. We are proud to build products that serve diverse needs, and we're excited to bring our innovative solutions to new markets.

The road to innovation is never linear, and we understand that adaptability and continuous learning are key to success. I am incredibly proud of the work we've done so far, but I know that our greatest achievements are still ahead of us. Together, we will continue to develop software that strengthens the quality of research, education, innovation, and business operations, both in Bangladesh and internationally.

Thank you for your continued dedication and hard work. Let's continue to innovate, inspire, and lead the way in both the education sector and the commercial market.



## // **KHANDAKAR RASHEDUL AREFIN**

- › Head of Software and Services, (System Analyst and Architect)
- › 18 Years of Experience.
- › System Design & Architecture
- › Business Process Analysis
- › Requirement Gathering & Stakeholder Communication
- › Project Management & Leadership
- › Risk Assessment & Mitigation
- › Strategic IT Planning
- › System Integration

**OUR KEY PERSONS**

## AMITOSH GAIN

Team Lead, (Database Design and Administration) <

7 Years of Experience <

Expertise in Modern Backend Frameworks <  
and Core Development

Database Management <

DevOps & System Administration <

API Integration <



## PUNAM CHOWDHURY

- ▶ Software Engineer, Backend (Full-Stack Development and DevOps Laravel and Django)
- ▶ 11 Years of Experience
- ▶ Expertise in Modern Backend Frameworks and Core Development
- ▶ Database Management
- ▶ DevOps & System Administration
- ▶ Machine Learning: Expertise in Implementing Machine Learning Algorithms
- ▶ Version Control & Collaboration

## LATIFUR RAHMAN //

Software Engineer, Mobile App and Backend (Laravel) <  
4 Years of Experience <

Expertise in Modern Backend Frameworks and Core Development <

Mobile App Development <

Database Management <

DevOps & System Administration <

API Integration <

Version Control & Collaboration <



## // MD. MEHEDI HASAN

- > Software Engineer, UI and UX, QA
- > 4.5 Years of Experience
- > Expertise in UI/UX Design and Prototyping
- > Quality Assurance and Testing
- > Frontend Development
- > Version Control & Collaboration



## MD. TOUHIDUR RAHMAN



- Software Engineer, Backend <
- 4.5 Years of Experience <
- Backend Frameworks and Core Development <
- Database Management <
- API Integration <
- Version Control & Collaboration <



## MD. MAHMUD UR RAHMAN

- > Software Engineer, Frontend
- > 2 Years of Experience
- > Frontend Development
- > Expertise in Modern Frontend Frameworks
- > UI/UX Design and Responsive Development
- > Skilled in Version Control

## ABDULLAH AL NOMAN



- Software Engineer, Frontend <
- 4 Years of Experience <
- Frontend Development <
- Expertise in Modern Frontend Frameworks <
- UI/UX Design and Responsive Development <
- Skilled in Version Control & API Integration <

# MeetingPulse

The BeLISAC Zoom Dashboard, accessible at <https://dashboard.belisac.bdren.net.bd/bdren/>, is a specialized platform developed by BdREN to provide real-time monitoring, management, and analytics for Zoom-based communications within BdREN (Bangladesh), LEARN (Sri Lanka), NREN (Nepal), DrukREN (Bhutan) and LERNET (Laos). Designed for educational and research institutions, the dashboard offers comprehensive insights into virtual meeting activities, enabling administrators to optimize resources, ensure compliance, and enhance the overall user experience.



## // Key Features

- › Real-Time Monitoring
- › Usage Analytics
- › Dashboard Customization
- › User Management
- › Secure Access

## // Benefits

- › Enhanced Decision-Making
- › Optimized Resource Utilization
- › Improved User Experience
- › Operational Transparency
- › Informed Planning

## // Use Cases

- › Government Agencies
- › Academic Institutions
- › Research Organizations
- › Administrative Oversight
- › Capacity Planning

# FINANCE MANAGEMENT SYSTEM (FMS) //

The Finance Management System (FMS) is a comprehensive software solution designed to simplify and automate financial and accounting operations. Suitable for both educational institutions and businesses, FMS ensures accuracy, efficiency, and real-time financial oversight.

## // KEY FUNCTIONALITIES

- Real-Time Financial Tracking
- Automated Invoicing
- Budget Management
- Financial Reporting
- Compliance Assurance
- Intuitive Dashboards
- Secure Data Management
- Expense Tracking

## BENEFITS //

- Increased Efficiency <
- Enhanced Accuracy <
- Improved Financial Visibility <
- Cost Savings <
- Better Decision Making <
- Scalability <
- Regulatory Compliance <

# // HUMAN RESOURCE MANAGEMENT SYSTEM (HRMS)

The Human Resource Management System (HRMS) is an integrated software solution designed to streamline and optimize all aspects of human resource management. Tailored for organizations of all sizes, HRMS offers a centralized platform to manage employee data, payroll, recruitment, performance, and more. With its user-friendly interface and powerful features, HRMS helps organizations enhance operational efficiency, ensure compliance, and improve overall employee satisfaction.

## Key Functionalities //

Employee Data Management <

Payroll Management <

Recruitment and Onboarding <

Attendance and Leave Management <

Performance Management <

Employee Self-Service Portal <

Loan Management <

Retirement Settlement <

Compliance Management <

Reporting and Analytics <

## // Benefits

- > Improved Efficiency
- > Accurate and Timely Payroll
- > Better Recruitment Process
- > Enhanced Employee Engagement
- > Data-Driven Insights
- > Cost Savings
- > Regulatory Compliance

## // Key Fetures

- › Customizable Design
- › User Management System
- › Dynamic Content Management
- › Integration with Institutional Systems
- › Responsive and Mobile-Friendly Design
- › Secure Data Handling
- › Event and Admission Management
- › Search and Navigation Tools
- › Analytics and Reporting

**WEB PORTAL DEVELOPMENT FOR  
UNIVERSITIES AND ORGANIZATIONS**

## // Benefits

- › Streamlined Operations
- › Improved Engagement
- › Time and Cost Savings
- › Scalability
- › Global Accessibility
- › Enhanced Collaboration

## USE CASES //

- University Portals <
- Research Institution Portals <
- Corporate Portals <
- Public Service Portals <

A Learning Management System (LMS) is a comprehensive platform that enables organizations to manage, deliver, and track educational content and training programs. It provides a centralized system for instructors and learners to interact, access learning materials, track progress, and engage with various resources. BdREN offers customized Moodle LMS solutions tailored to the specific needs of institutions and organizations, ensuring that they can deliver a seamless and interactive learning experience.

## // **Key Features and Functionalities**

- › Course Management
- › User Enrollment and Access Control
- › Interactive Content Delivery
- › Progress Tracking and Reporting
- › Certification and Badging
- › Discussion Forums and Collaboration
- › Mobile Access

## Benefits of BdREN's LMS Customization

- Personalized Learning Experience <
- Increased Engagement <
- Efficiency in Course Management <
- Centralized Learning Hub <
- Scalable Solutions <

## Why Choose BdREN's LMS Customization?

- > Course Management
- > User Enrollment and Access Control
- > Interactive Content Delivery
- > Progress Tracking and Reporting
- > Certification and Badging
- > Discussion Forums and Collaboration
- > Mobile Access



## EFILE & APPROVAL MANAGEMENT SYSTEM (AMS)

BdREN has developed eFile, a sophisticated electronic office file management system designed to streamline the process of file note approvals eliminating the need for manual document handling and approval processes. BdREN has further enhanced the eFile system with the development of the Approval Management System (AMS), which extends eFile's functionality by providing a more comprehensive solution for managing approvals and decision-making across various organizational levels.

### Key Features of eFile

- File Note Approval
- Centralized File Storage
- Real-Time Notifications
- Real-Time Note tracking
- Role based Authorization
- Hierarchical Flow Management
- Audit Trail

## // Enhanced Features with Approval Management System (AMS)

- Automated Approval Workflow
- Customizable Approval Hierarchies
- Role-Based Access Control
- Digital Signatures
- Real-Time Updates and Notifications
- Comprehensive Reporting and Audit Logs

## Benefits of eFile & AMS //

- Increased Efficiency <
- Optimized Workload <
- Improved Transparency <
- Enhanced Security <
- Cost Savings <
- Simplified Workflow Management <
- Environmental Sustainability <

# Graduate Record Issuance and Verification System (GRIVS)

BdREN has developed the Graduate Record Issuance and Verification System (GRIVS), an innovative solution designed to streamline the process of issuing, verifying, and validating academic certificates. GRIVS ensures the secure and automated issuance of graduate certificates with built-in verification features, providing a reliable, transparent, and tamper-proof system for both graduates and employers.

The system leverages modern technology to generate encrypted QR codes that link directly to the graduate's certificate, enabling real-time verification and reducing the chances of certificate fraud.

## Key Features of GRIVS //

- Automated Certificate Generation <
- Encrypted QR Code <
- Stamped Digital Signature of the Authority <
- Secure Database <
- Real-time Verification <
- Tamper-Proof Certificates <

## // Benefits of GRIVS

- > Enhanced Security
- > Time Efficiency
- > Cost Savings
- > Convenience
- > Transparency and Trust
- > Environmentally Friendly

## Key Integration Features //

- Optimum Uses of Licences <
- Student Management Systems <
- ERP Systems <
- Authentication Services <
- Data Import/Export <
- HR and Employer Systems <
- API Integration <

## VSession: Zoom Scheduler by BdREN

VSession is a powerful scheduling tool developed by BdREN, designed to facilitate the seamless integration of Zoom video conferencing with efficient scheduling capabilities. Aimed at simplifying the process of managing Zoom meetings, VSession provides users with a user-friendly interface to schedule, manage, and customize Zoom sessions for various academic, organizational, and professional needs

Available at <https://vsession.bdren.net.bd/login>  
VSession is an essential tool for institutions, businesses, and organizations that rely on Zoom for virtual meetings, classes, webinars, and collaborative sessions.

«CODING»

«HTML»

«PYTHON»



## Key Features of VSession //

- Seamless Zoom Integration <
- Easy Scheduling <
- Recurring Events <
- User Access Control <
- Customizable Meeting Settings <
- Meeting Reminders and Notifications <
- Integration with Calendar <
- Reports and Analytics <

## // Benefits of VSession

- > Streamlined Scheduling
- > Time Efficiency
- > Enhanced Productivity
- > Improved User Experience
- > Better Communication
- > Comprehensive Reporting

# University Management System (UMS)

BdREN's University Management System (UMS) is a comprehensive, web-based solution tailored to meet the diverse operational and administrative needs of universities. The UMS streamlines processes ranging from student admissions to academic management, empowering educational institutions to operate efficiently and deliver an enhanced learning experience.

## // Key Features of UMS

- ▶ Student Admission Management
- ▶ Academic and Curriculum Management
- ▶ Student Records Management
- ▶ Fee and Financial Management
- ▶ Examination and Result Processing
- ▶ Communication and Notifications
- ▶ Hostel and Transportation Management
- ▶ Library Management System

## Benefits of UMS //

- Efficiency and Productivity <
- Improved Decision-Making <
- Enhanced Student Experience <
- Cost-Effective Solution <
- Scalable and Customizable <
- Secure and Reliable <

# FileSender: Secure File Sharing Solution

BdREN developed FileSender, accessible at <https://apacfilesender.asia/en/login>, is a secure and user-friendly platform designed to facilitate large file transfers across educational and research networks. Built with the needs of researchers, educators, and institutional staff in mind, FileSender ensures data integrity, security, and efficiency in file sharing.



## // Key Features of FileSender

- › Large File Transfers
- › Secure Sharing
- › Customizable Expiry Dates
- › Authentication Integration
- › Easy-to-Use Interface
- › Recipient Management
- › Email Notifications

## Benefits of UMS //

- Efficiency and Productivity <
- Improved Decision-Making <
- Enhanced Student Experience <
- Cost-Effective Solution <
- Scalable and Customizable <
- Secure and Reliable <

## // Use Cases for FileSender

- › Academic Research
- › Educational Content Sharing
- › Administrative Communication





# Orbit

Event Management System (EMS)

BdREN's Event Management System (EMS) named Orbit is a dynamic platform designed to streamline the planning, organization, and execution of events for educational institutions, research communities, and professional organizations. Whether it's conferences, webinars, workshops, or training programs, EMS provides an end-to-end solution for managing all aspects of events with ease.

## // Key Features of EMS

- › Event Creation and Customization
- › Participant Registration
- › Agenda Management
- › Speaker and Panelist Management
- › Email and Notification System
- › Virtual Integration
- › Event Analytics and Reports
- › Fellowship Management
- › Call for Proposal
- › Evaluation System
- › Payment Management

## // Benefits of EMS

- › Streamlined Event Organization
- › Enhanced Participant Experience
- › Scalability
- › Time and Cost Efficiency
- › Customizability
- › Data-Driven Decision-Making

## // Use Cases for EMS

- › Academic Events
- › Research Conferences
- › Corporate and Professional Training
- › Hybrid and Virtual Events

# NREN Maturity Calculator

BdREN's NREN Maturity Calculator, available at <https://mc.bdren.net.bd>, is a specialized tool designed to help National Research and Education Networks (NRENs) evaluate their level of operational maturity. By assessing key performance indicators and functional domains, the calculator provides actionable insights to guide strategic improvements and enhance the services offered by NRENs to their respective education and research communities.



## Key Features of the NREN Maturity Calculator //

- Comprehensive Assessment Framework <
- Customizable Evaluation <
- Interactive Scoring System <
- Visual Analytics and Reports <
- User-Friendly Interface <
- Progress Tracking <

## Benefits of the NREN Maturity Calculator //

- Strategic Decision-Making <
- Benchmarking Performance <
- Tailored Growth Plans <
- Fostering Continuous Improvement <
- Strengthening Global Collaboration <

## Use Cases for the NREN Maturity Calculator //

- Organizational Self-Assessment <
- Strategic Planning <
- Performance Monitoring <
- Capacity Building <
- Global Collaboration <



# TEIN Compendium

BdREN's TEIN Compendium is a centralized platform designed to streamline the management, sharing, and collaboration of information for the Trans-Eurasia Information Network (TEIN) community. This compendium serves as a robust repository for Asia-Pacific NREN activities, enabling seamless coordination and knowledge sharing among partner organizations.



## // Key Features of the TEIN Compendium

- › Centralized Information Repository
- › User Authentication and Secure Login
- › Project and Activity Tracking
- › Interactive Dashboard
- › Collaboration Tools
- › Customizable Reports

## // Benefits of the TEIN Compendium

- › Streamlined Data Management
- › Enhanced Collaboration
- › Improved Transparency
- › Time and Cost Efficiency
- › Knowledge Sharing

## // Use Cases for the TEIN Compendium

- › Stakeholder Engagement
- › Strategic Planning
- › Collaboration and Communication
- › Impact Reporting

# Eduroam User Portal

BdREN's Eduroam User Portal, accessible at <https://edu-account.bdren.net.bd>, is a dedicated platform that streamlines the management of Eduroam accounts for users in Bangladesh. Eduroam (Education Roaming) is a global initiative providing secure and seamless wireless internet access for students, researchers, and staff at participating institutions worldwide. The portal serves as a centralized hub for account registration, management, and access to Eduroam services.



## Key Features of the // Eduroam User Portal

- User Account Registration <
- Authentication and Security <
- Usage Analytics <
- Cross-Institutional Access <

## Benefits of the Eduroam // User Portal

- Global Connectivity <
- Convenience for Users <
- Enhanced Security <
- Support for Research Collaboration <
- Cost Efficiency <
- Standardized Access <

## Use Cases for the // Eduroam User Portal

- Student Mobility <
- Academic and Research Travel <
- Institutional Integration <



# BdREN Service Portal

The BdREN Service Portal offers a centralized platform for managing BdREN's advanced digital services. Enhanced with seamless integration to the Finance Management System, the portal ensures efficient handling of financial processes such as invoice generation and revenue collection reporting, streamlining operations for users and institutions alike.

## Key Features

### // Service Management

- Centralized Access
- User Account Management
- Service Requests and Support



## Finance Management Integration

- ▶ Automated Invoice Generation
- ▶ Revenue Collection Reporting
- ▶ Payment Tracking and Reminders
- ▶ Customizable Financial Reports
- ▶ Secure Financial Transactions

## Use Cases

- ▶ Subscription Billing and Revenue Monitoring
- ▶ Institutional Financial Management
- ▶ Service and Financial Oversight

## Benefits

- Operational Efficiency
- Enhanced Transparency and User Experience
- Data-Driven Insights
- Streamlined Compliance
- Improved Collaboration

The BdREN Task Management System, accessible at <https://initiatives.bdren.net.bd>, is a centralized platform designed to streamline project and task coordination across BdREN's diverse teams and stakeholders. This system is built to enhance productivity, ensure accountability, and simplify the management of tasks for projects of all scales.

## // Key Features

- › Task Assignment and Tracking
- › Project Management Tools
- › Collaboration and Communication
- › Customizable Workflows
- › Notification System
- › Reporting and Analytics



## // Benefits

- › Enhanced Productivity
- › Improved Collaboration
- › Streamlined Project Oversight
- › Increased Accountability
- › Scalable Solution

## Use Cases \

- Project Coordination <
- Task Prioritization <
- Performance Monitoring <
- Event Planning and Execution <

## Infokosh: BdREN's Digital Repository

Infokosh, accessible at <https://infokosh.bdren.net.bd/login>, is Bangladesh Research and Education Network's (BdREN) comprehensive digital repository. It serves as a centralized platform for storing, managing, and disseminating a wide array of BdREN's documents, fostering knowledge sharing and collaboration among BdREN's employees for various official and administrative activities.

### Key Features //

- Extensive Resource Collection <
- Advanced Search and Retrieval <
- User-Friendly Interface <
- Secure Access and Authentication <
- Content Submission and Management <

### // Benefits of Infokosh

- > Centralized Knowledge Hub
- > Enhanced Collaboration
- > Increased Visibility for Employees
- > Preservation of Administrative Work

### Use Cases for Infokosh //

- Archival System <
- Academic Research <
- Institutional Repository <
- Curriculum Development <
- Literature Review <

# BdREN Single Sign-On (SSO)



The BdREN Single Sign-On (SSO) platform, accessible at <https://accounts.bdren.net.bd>, is a unified authentication solution that enables seamless access to multiple BdREN services with a single set of credentials. This system enhances user convenience, security, and efficiency by eliminating the need for multiple logins across platforms.

## Key Features //

- Unified Access <
- Secure Authentication <
- Customizable User Roles <
- Integration with Institutional Systems <
- Scalability <
- Multi-Factor Authentication (MFA) <

## // Benefits

- > Convenience for Users
- > Enhanced Security
- > Improved Productivity
- > Efficient User Management
- > Interoperability

## Use Cases //

- Academic and Research Platforms <
- Event and Workshop Management <
- Collaborative Tools <
- Enterprises <

# Proposal Management System

The Proposal Management System is an intuitive and efficient platform designed to streamline the end-to-end management of proposal submissions, evaluations, and approvals. Developed to support academic, research, and project funding initiatives, this system ensures transparency, accountability, and ease of use throughout the proposal lifecycle.

## Key Features

- › Proposal Submission Portal
- › Automated Review Workflow
- › User Role Management
- › Real-Time Tracking and Notifications
- › Integrated Scoring and Feedback System
- › Document and Attachment Handling
- › Data Analytics and Reporting

## Benefits

- Efficiency in Proposal Handling
- Enhanced Transparency
- Improved Collaboration
- Comprehensive Documentation
- Scalability and Customization

## Use Cases

- › Academic Research Grants
- › Project Funding Proposals
- › Conference Call for Papers (CFP)
- › Internal Project Approvals

# OUR ESTEEMED CLIENTS



Asian Pacific Advanced Network



Asia-Pacific-Europe Research and Education Network



Bangladesh Open University



Begum Rokeya University, Rangpur



Bangabandhu Sheikh Mujibur Rahman Aviation and Aerospace University



Bangabandhu Sheikh Mujibur Rahman Agricultural University



Bangladesh University of Engineering and Technology



Bangladesh University of Fashion and Technology



Bangladesh University of Professionals



University of Dhaka



Druk Research & Education Network



Global Support Services



Green University of Bangladesh



International University of Scholars



Lao Education and Research Network



Lanka Education and Research Network



Nepal Research and Education Network



University Grants Commission



World University of Bangladesh