



DEPARTMENT OF POLITICAL SCIENCE

UNIVERSITY OF KERALA

Kariavattom Campus, Thiruvananthapuram - 695 581, Kerala, India.

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(Reaccredited by NAAC with 'A++' Grade)

No. POL/629/333/2026

18/06/2026

QUOTATION NOTICE

Sealed quotations are invited from reputed firms/manufacturer/authorized dealers for the supply and installation of following items for implementing the electronic version of departmental research journal, under the 'IT Enabled Academic Initiatives' project at the Department of Political Science, University of Kerala, Kariavattom

JOURNAL WEBSITE DEVELOPMENT & AMC

1.1 Objective

To design, develop, deploy, host, and maintain a professional scholarly journal website that complies with international academic publishing standards and supports open-access dissemination of research articles.

1.2 Website Features

A. Homepage and General Information

- Professional, modern, and responsive website design
- Journal branding and identity integration
- Journal aims and scope
- Editorial policies and publication ethics
- Peer-review policy
- Open-access policy
- Copyright and licensing information
- Privacy policy and data protection statement
- Publication frequency and publication schedule
- Contact information
- Announcement and news section

B. Editorial Information

- Editorial Board details
- Advisory Board details
- Reviewer Panel information
- Editor-in-Chief profile

- Associate Editors and Section Editors
- Editorial office information

C. Author Resources

- Author Guidelines
- Manuscript Preparation Guidelines
- Submission Process Information
- Publication Ethics Statement
- Copyright Forms
- Templates and Downloads
- APC (if applicable) information

D. Article Archive and Search

- Volume-wise and Issue-wise article archive
- Advanced article search
- Full-text article access
- PDF download facility
- Metadata-based search
- Keyword-based search
- Author-based search
- DOI linking support

E. Responsive Design

- Mobile-responsive interface
- Tablet compatibility
- Desktop browser compatibility
- Cross-browser support (Chrome, Firefox, Edge, Safari)

F. e-ISSN Compliance Requirements

Website shall include:

- Journal title and ISSN display
- Editorial board information
- Publisher information
- Publication policies
- Archival information
- Article Metadata pages
- Publication ethics statement
- Contact details

G. Accessibility and Security

- WCAG-compliant design principles
- SSL security integration
- Protection against spam and bots
- Secure content management
- Regular security updates

H. Annual Maintenance Contract (AMC)

The AMC shall include:

- Technical support
- Security monitoring
- Bug fixing and troubleshooting
- Software updates
- Content support
- Backup management
- Performance optimization
- Uptime monitoring

The quotations shall be addressed and send by post to the Head, Department of Political science, University of Kerala Kariavattom campus, Thiruvananthapuram 695581 on or before 13th July 2026 at 4:30 pm super scripting 'IT Enabled Academic Initiatives'.it will be opened on next day 14th July 2026 at 11:00 am.

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Done
23/6/2026
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JOURNAL MANAGEMENT SYSTEM (JMS) DEVELOPMENT AND DEPLOYMENT

1.1 Objective

To provide a secure online manuscript submission, peer review, editorial management, and publication workflow system

1.2 User Roles

A. Administrator

- System configuration
- User management
- Workflow management
- Reports and analytics

B. Editor-in-Chief

- Complete manuscript oversight
- Editorial decision management
- Reviewer assignment approval
- Publication scheduling

C. Associate/Section Editors

- Manuscript handling
- Reviewer assignment
- Recommendation submission
- Editorial correspondence

D. Reviewers

- Review invitation management

- Manuscript evaluation
- Structured review submission
- Recommendation submission

E. Authors

- Registration and profile management
- Manuscript submission
- Revision submission
- Status tracking
- Communication with editorial office

1.3 Editorial Workflow

Manuscript Submission

- Online manuscript submission
- Multiple file uploads
- Supplementary file submission
- Metadata capture
- ORCID integration

Initial Screening

- Scope verification
- Compliance verification
- Plagiarism verification
- Editorial assessment

Peer Review Management

- Reviewer database management
- Reviewer invitation system
- Automated reminders
- Blind review support
- Double-blind review support
- Structured review forms

Editorial Decision Management

- Accept
- Minor Revision
- Major Revision
- Reject
- Resubmit

Revision Management

- Version tracking
- Author revision submission
- Reviewer reassessment
- Decision history

Publication Workflow

- Copyediting management
- Layout preparation
- Proofreading workflow
- Final publication approval
- Online publication scheduling

1.4 Communication and Notifications

- Automated email notifications
- Submission acknowledgement
- Reviewer invitations
- Review reminders
- Decision notifications
- Publication notifications
- Custom email templates

1.5 Reports and Analytics

- Submission statistics
- Acceptance rate reports
- Reviewer performance reports
- Editorial activity reports
- Publication reports
- Author reports
- Journal performance dashboards

1.6 Security Requirements

- Role-based access control
- Secure authentication
- Password encryption
- Audit trails
- Activity logs
- Data backup and recovery
- GDPR-compatible data handling

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SUBSCRIPTION-BASED INTEGRATED SERVICES AND ADD-ONS

1.1 DOI Integration

Features

- DOI registration integration
- Automated DOI assignment
- DOI metadata submission
- DOI resolution management
- Crossref/DataCite compatibility

Deliverables

- DOI registration setup
- DOI assignment workflow
- DOI metadata export

1.2 Plagiarism Detection Integration

Features

- Integration with plagiarism detection platforms
- Similarity checking during submission
- Detailed plagiarism reports
- Editorial review access

Supported Services

- iThenticate
- Turnitin (where applicable)
- Similar approved plagiarism services

1.3 AI-Based Editorial Support Tools

Features

- Manuscript formatting assistance
- Language enhancement suggestions
- Grammar and style checking
- Reference validation
- Metadata extraction
- Copyediting support
- Editorial quality assessment

AI-Assisted Functions

- Title optimization
- Abstract quality checks
- Citation consistency checks
- Language improvement recommendations

1.4 Indexing Platform Submission Automation

Features

- Metadata export
- XML generation
- Automated indexing feeds
- Repository integration

Supported Platforms

- Google Scholar
- Crossref
- DOAJ
- Scopus (metadata preparation support)
- Web of Science (metadata preparation support)
- OpenAIRE
- BASE
- Dimensions
- Other indexing services as required

1.5 ORCID Integration

Features

- ORCID authentication
- ORCID profile synchronization
- Author identity verification
- Automatic ORCID linking in publications

1.6 Additional Services

Digital Preservation and Archiving

- LOCKSS compatibility
- CLOCKSS compatibility
- PKP PN support

- Institutional repository integration

Metadata Standards

- Dublin Core support
- Crossref XML export
- JATS XML support
- OAI-PMH compliance

Search Engine Optimization (SEO)

- Article-level SEO
- Metadata optimization
- Schema.org integration
- Search engine indexing optimization

Usage Statistics

- Article views
- Download counts
- Citation tracking support
- Altmetric integration support

Multi-Journal Support (Optional)

- Multiple journals under a single platform
- Centralized administration
- Shared reviewer database

Additional Features Requested by Editorial Board

The system shall support future enhancements and custom modules as requested by the Editor-in-Chief, Editorial Board, or Publisher, subject to technical feasibility and mutually agreed scope.

TECHNOLOGY REQUIREMENTS

End-to-End Enterprise Technology Stack

To support the high performance, scalability, and security requirements of the Journal Website and Journal Management System (JMS), a modern, cloud-native architecture hosted on Microsoft Azure is specified. The system is designed to handle asynchronous task workloads, secure scholarly data, and automate publication workflows end-to-end.

A. Frontend Application (Single Page Application)

- **Core Framework:** React.js 18.x (using functional components, React Hooks, and Context API for modularity and performance).
- **State Management & Routing:** Redux Toolkit (RTK) for predictable client-side state management and React Router 6.x for secure client-side routing.
- **Styling & Responsive Design:** TailwindCSS 3.x for modern utility-first CSS styling, ensuring fully responsive, accessibility-compliant layouts across mobile, tablet, and desktop viewports.

- **API Integration:** Axios HTTP client with interceptors for automatic JWT authentication token injection, refresh handling, and global error handling.
- **Frontend Hosting:** Azure Static Web Apps (SWA) to host the production-built React application. Leverages Azure's global CDN for low-latency asset delivery, automated SSL certificate generation/renewal, custom domain routing, and enterprise-grade DDoS protection.

B. Backend API Application

- **Core Frameworks:** Django 5.0 (for comprehensive, secure administration capabilities, migrations, ORM, and integrated auth) and FastAPI 0.111.x (for high-performance, asynchronous REST API endpoints utilized by the frontend and AI integrations).
- **Python Version:** Python 3.12 or 3.13 (utilizing modern typing, performance enhancements, and async capabilities).
- **Asynchronous Task Queue:** Celery 5.4.x (using Python Celery workers) to handle long-running, resource-intensive asynchronous operations such as automated PDF generation, plagiarism report indexing, email notifications, and metadata indexing feeds.

C. Database, Caching & Message Broker

- **Relational Database:** Azure Database for PostgreSQL Flexible Server (PostgreSQL 16.x). Configured with connection pooling (PgBouncer), daily backups (7-day retention), high-availability (HA) zone redundancy, and automated security patching.
- **Caching & Session Store:** Azure Cache for Redis (Redis 7.x). Configured as the cache, session store, and Celery backend database for rapid query caching and real-time dashboard analytics.
- **Message Broker:** Azure Service Bus (Standard tier, AMQP 1.0 protocol) or RabbitMQ (3.13.x). Configured as the reliable message queue and broker to distribute tasks to background workers.

D. Storage Solutions

- **Cloud Object Storage:** Azure Blob Storage (Hot Tier). All uploaded manuscripts, reviewer forms, author supplementary files, generated article PDFs, XML feeds, and journal media assets are securely stored in private containers.
- **Access Control & Security:** Access to private blobs is secured using Shared Access Signatures (SAS tokens) with short-lived TTLs generated dynamically by the backend, ensuring files cannot be accessed publicly without authorization.

E. Deployment & Infrastructure Architecture

- **Backend App Hosting:** Azure App Service (Linux Web App, Basic B1 or Premium P1v3 tier) to host the Docker-containerized Django/FastAPI applications with auto-scaling rules based on CPU/Memory usage.
- **Background Workers:** Azure Container Apps (ACA) to host serverless Celery worker containers. Scale-to-zero configurations are implemented to optimize costs, automatically scaling up when tasks enter the queue and scaling down when idle.
- **Web Server & Ingress Gateway:** Nginx 1.26.x configured as a reverse proxy, ingress controller, and load balancer. Nginx handles SSL/TLS termination (TLS 1.3 only, enforcing HTTPS), custom headers (HSTS, Content Security Policy (CSP), X-Frame-Options, X-Content-Type-Options), rate limiting, and client-side compression (Gzip/Brotli).

F. DevOps, CI/CD Pipeline & Monitoring

- **Source Control:** GitHub repositories with branching strategies, branch protection rules, and mandatory peer pull-request reviews.
- **CI/CD Workflows:** GitHub Actions workflows trigger on commits/PRs to run automated linting (Ruff/ESLint), unit testing (Pytest/Jest), build Docker containers, push to Azure Container Registry (ACR), and trigger deployments to Azure App Service / Container Apps. Jenkins pipelines are optionally integrated for custom on-premises pipeline tasks.
- **Monitoring & Observability:** Azure Monitor and Application Insights integration for end-to-end distributed tracing, real-time error logging, performance alerts, and container status telemetry.

DELIVERABLES

1. Fully functional Journal Website
2. Journal Management System (JMS)
3. DOI Integration
4. Plagiarism Detection Integration
5. ORCID Integration
6. AI-Based Editorial Support Tools
7. Indexing Support Modules
8. Documentation and User Manuals
9. Training for Editorial Team
10. Deployment documentation
11. Backup and Recovery Configuration
12. Multi-year technical support with annually recurring AMC

13. Proper project handover protocol with checklist and documentation

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