

Tender No: JSA/2026-27/01 Bikaner, Dated: 22 April 2026



Tender Notice

**Short term Detailed Notice Inviting Tender (DNIT) for**

Design and Development of

Jambhani Sahitya Akademi Web & Mobile Application

Tender No: JSA/2026-27/01 Bikaner, Dated: 22 April 2026

**Issued by**

Jambhani Sahitya Akademi  
E-134, Sector-1, Jai Narayan Vyas Colony,  
Bikaner (Rajasthan) – 334 003  
E-Mail: Jsakademi@Gmail.Com  
Mobile: 94622-32829

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**Notice Inviting Tender**

**Important Information**

Sr. No.	Particulars	
1.	Tender Reference No.	JSA/2026-27/01
2.	Tender Inviting Authority and Address	Jambhani Sahitya Akademi, E-134, Sector-1, JNV Colony, Bikaner (Rajasthan) – 334003
3.	Name of the Work	Design and Development of Jambhani Sahitya Akademi Web & Mobile Application
4.	Tender document availability	Tender Document is available at <a href="https://www.jambhani.com/">https://www.jambhani.com/</a> from 23 <sup>th</sup> April 2026
5.	Starting date of Tender	23.04.2026
6.	Last date and time for submission of e-Tender	10.05.2026
7.	Last date for submission of hard copy of technical bid to JSA.	10.05.2026 by 05:00 PM (Hard Copy of Technical bid with proper binding and indexing by the respective bidder must be submitted by bidder at below address: Jambhani Sahitya Akademi, E-134, Sector – 1, JNV Colony, Bikaner (Rajasthan) – 334003)
8.	Date and Time of Opening of Technical and Commercial Bids	11.05.2026 at 10:am
9.	Communication Mail address	jsakademi@gmail.com
10.	Mode of Tender	Open Tender

About Jambhani Sahitya Akademi (JSA)

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Jambhani Sahitya Academy (JSA) is a national-level literary and cultural organization dedicated to the preservation, promotion, and dissemination of *Jambhani Sabitya*, an invaluable heritage of Hindi devotional literature. Originating alongside the establishment of the Bishnoi faith by Guru Jambheshwar in 1542 (Samvat), this literary tradition has evolved over five centuries, encompassing a vast body of spiritual, philosophical, cultural, social, and historical works.

Recognizing the urgent need to conserve and promote this rich literary heritage, the idea of establishing a dedicated institution was formalized following a national seminar held in Bikaner in February 2011. The Jambhani Sahitya Academy was officially registered on 12<sup>th</sup> July 2012 in Delhi (Registration No. 5/1151/SDM/NW/2012).

The primary objective of JSA is to promote the teachings of Guru Jambheshwar and to facilitate the publication, research, and wider dissemination of Jambhani literature for scholars, readers, and society at large.

## Invitation of Tender

Jambhani Sahitya Academy (JSA) invites sealed proposals from eligible and experienced software companies/agencies for the Design, Development, and Maintenance of a Web Portal and Mobile Application (Android & iOS) for managing examination processes, candidate lifecycle, and other related features.

The objective of this tender is to onboard a technically competent agency to:

- Develop a centralized examination management system
- Enable candidate registration (self & Centre-based)
- Support online and offline examination workflows
- Provide admin control for answer key, result, and certificate generation
- Ensure bilingual platform (Hindi & English)
- Build a scalable system for future expansion (Phase-2 services)

## Scope of Work

The selected bidder shall be responsible for the **end-to-end design, development, deployment, testing, and maintenance** of the JSA Web Portal and Mobile Application (Android & iOS), covering all modules and functionalities as defined below.

The system shall be designed as a **secure, scalable, bilingual (Hindi & English), and modular platform** to manage the complete examination lifecycle and related services.

### System Overview

The platform shall include:

- Web-based application (Admin + Candidate + Centre Login)

- Mobile applications (Android & iOS)
- Centralized database and role-based access system
- Integration-ready architecture for future Phase-2 expansion

### **Candidate Registration & Login Module**

The bidder shall develop a robust candidate registration system with the following features:

#### **A. Registration Types**

- Self-registration by candidates
- Registration through Centre login

#### **B. Features**

- Capture all mandatory and optional candidate details
- Auto-validation to prevent duplicate entries (Name + Father's Name + Mobile Number)
- Auto-generation of unique registration number (State-based format)
- Multi-candidate registration under one login

#### **C. Authentication System**

- OTP-based login (Mobile/Email)
- Social login integration (Google, etc.)
- Password creation after first login
- Forgot password functionality

### **Examination Centre Module**

#### **A. Centre Onboarding**

- Creation of centre only through Admin
- Bulk upload via Excel template
- Geo-based hierarchy (State → District → Tehsil → Centre)

#### **B. Centre Functionalities**

- Student registration (simplified form)
- Bulk registration and payment
- View/export student data (group, gender, exam mode wise)

#### **C. Attendance Management**

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- Digital attendance marking using roll number
- One-time attendance validation
- Exportable attendance reports

### **Examination Management Module**

#### **A. Examination Structure**

- Multi-set question paper system (A, B, C)
- Randomization of questions and options
- Support for bilingual question papers

#### **B. Exam Modes**

- Offline (centre-based)
- Online (web + mobile app)

#### **C. Demo Examination**

- Fixed 50-question practice test
- Always accessible inside candidate login

### **Correction Window Module**

- 15-day correction window for candidates and centres
- Editable fields including exam centre
- Automatic locking post deadline

### **Roll Number, Admit Card & Result Module**

#### **A. Roll Number Generation**

- Admin-controlled generation
- Structured format based on centre, group, and sequence

#### **B. Admit Card**

- Auto-generation after validation conditions
- Downloadable from portal
- SMS & Email notification trigger

#### **C. Answer Key**

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- Admin upload functionality
- Published after exam

#### **D. Result & Certificate**

- Admin-controlled result declaration
- Auto-generation of downloadable digital certificates

#### **Notification Module**

- Bell notification system in web & mobile
- Push notifications for mobile apps
- Configurable from admin panel
- Types include:
  - Admit card release
  - Answer key
  - Result
  - Announcements

#### **Study Material Module**

- Upload and manage PDF-based study material
- Accessible inside login and website
- Download functionality

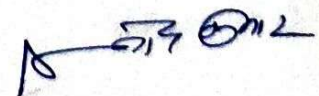
#### **Reporting & Analytics Module**

The system shall provide dynamic reports including:

- Total registrations
- Gender-wise distribution
- Group-wise (A/B/C)
- State-wise and district-wise data

#### **Features:**

- Dashboard view for Admin
- Export in Excel/CSV/PDF formats
- Restricted reports for Centre login



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### Payment & Donation Module

- Online payment integration for:
  - Examination fee
  - Donations / Membership

### Supported modes:

- QR Code
- Net Banking
- Other standard payment gateways

### Super Admin Module

The bidder shall develop a comprehensive Admin Dashboard with capabilities to:

- Configure registration timelines
- Manage Centres
- Set exam schedules
- Control answer key & result publishing
- Manage question bank (Hindi & English)
- Upload images in questions/options
- Generate question papers

### UI/UX Design Requirements

- Modern, intuitive, and user-friendly design
- Consistent UI across web & mobile
- Wireframes/prototypes approval before development
- Accessibility-focused design
- Avoid use of blue color

### Mobile Application Requirements

- Native-like performance (Flutter / React Native)
- Compatibility with Android & iOS
- Push notifications

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- Full feature parity with web (where applicable)

### Technology Stack (Indicative)

The bidder shall use or justify equivalent technologies:

Layer	Technology
Frontend	React.js / Angular with Tailwind CSS
Backend	Java (Spring Boot)
Database	PostgreSQL / MySQL / MongoDB
Mobile	Flutter / React Native

### Non-Functional Requirements

The system must ensure:

- Bilingual interface (Hindi & English)
- Data privacy and user-level access restriction
- Scalability for high concurrent users
- Page load time  $\leq 3$  seconds (normal),  $\leq 5$  seconds (peak)
- Auto logout after 30 minutes
- Secure authentication & data handling

### Deployment & Support

The selected bidder shall:

- Deploy application on JSA-provided infrastructure
- Conduct testing including VAPT (security testing)
- Provide **minimum 1-year support & maintenance**
- Ensure bug fixing, updates, and performance monitoring

### Future Scope (Phase-2 Readiness)

The system must be designed to support future modules such as:

- Member directory
- Event & conference registration

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- Online bookstore
- Magazine subscription
- AI chatbot integration

**NOTE: Detailed Business Requirement Document (BRD) of 18 pages, are attached with this tender document.**

## Eligibility Criteria & Bid Evaluation

Bidders must meet the following eligibility criteria. Documentary evidence must be submitted; failing which, the bid shall be rejected.

### A. Legal & Registration Requirements

Sr. No.	Criteria	Supporting Documents
1	The bidder must be a registered company/firm (Company/LLP/Partnership/Proprietorship)	Certificate of Incorporation / Registration
2	The bidder must have valid GST registration	GST Certificate
3	The bidder must have valid PAN	PAN Card
4	The bidder should not be blacklisted by any Government/Semi-Government organization	Self-declaration on letterhead

### B. Experience Criteria

Sr. No.	Criteria	Supporting Documents
1	Minimum 2 years of experience in Web & Mobile Application Development	Work orders / Completion certificates
2	Experience in at least 1 similar project (Education / Examination / ERP systems)	Project details with proof

### C. Financial Criteria

Sr. No.	Criteria	Supporting Documents
1	Minimum average annual turnover of ₹ 05 Lakhs in last 3 financial years	CA-certified balance sheet

2	Positive net worth in last financial year	CA certificate
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**D. Technical Capability**

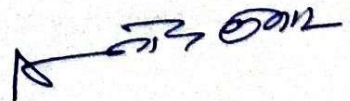
Sr. No.	Criteria	Supporting Documents
1	Availability of in-house technical team (Developers, UI/UX, QA)	Team profile
2	Experience in required technologies (React/Angular, Java, Mobile Apps)	Project/portfolio details

**E. Compliance Requirements**

Sr. No.	Criteria	Supporting Documents
1	Agreement to provide 1-year support & maintenance	Undertaking
2	Acceptance of all tender terms & conditions	Signed tender document

**Evaluation Criteria (100 Marks)**

Sr. No.	Parameter	Marks
1	Company Experience (years & domain relevance)	20
2	Experience in Similar Projects (Education/Exam systems)	20
3	Technical Approach & Understanding of BRD	20
4	Proposed Architecture & Technology Stack	10
5	Team Strength & Key Resources	10
6	UI/UX Approach & Innovation	10
7	Presentation / Demo (if required)	10
<b>Total</b>		<b>100 Marks</b>



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**Tender Fee:**

Bidder must submit Rs. 1,000/- (one thousand only)

tender fee in the favour of:

**Jambhani Sahitya Akademi**

Bank: Punjab National Bank,

JNV Colony, Bikaner

A/C No: 7692000100000243

IFSC: PUNB0769200



**Disqualification Criteria**

A bidder shall be disqualified if:

- False or misleading information is provided
- Mandatory documents are not submitted
- Non-compliance with key requirements
- Tender Fee Rs. 1,000/- not deposited (either online or DD)

**Clarifications & Presentation**

- JSA may request technical presentation or live demo of similar projects from the bidders.

**Deliverables, Timeline & Payment Terms**

The selected bidder shall execute the project in a **time-bound and milestone-driven manner**, ensuring delivery of all components as per the BRD and requirements defined in this tender.

**Project Deliverables**

The bidder shall deliver the following:

**A. Application Deliverables**

- Fully functional **Web Portal** (Admin, Candidate, Centre Modules)
- **Mobile Applications** (Android & iOS)
- **Integrated modules:**
  - Registration & Login
  - Centre and user management
  - Examination Management (Master question bank and paper set)
  - Admit Card, Result & Certificate

- o Reporting & Analytics
- o Payment & Notification Modules

**B. Technical Deliverables**

- Complete source code (web & mobile applications)

**C. Documentation Deliverables**

- User Manuals
- Installation & Deployment Guide
- Security/VAPT Report

**D. Support Deliverables**

- 1-year post-deployment maintenance
- Bug fixing and issue resolution
- Minor enhancements (if required)

**Project Timeline**

Phase	Activity	Timeline
Phase 1	Requirement Finalization & System Design	3-4 days
Phase 2	UI/UX Design & Approval	1 week
Phase 3	Core Development (Web + Backend APIs)	2-3 weeks
Phase 4	Mobile App Development	2-3 weeks
Phase 5	Integration & Testing (UAT)	1 week
Phase 6	Deployment & Go-Live	1 week

*Note: Timeline may be refined mutually with JSA Tech Team.*

**Payment Terms**

Payments shall be released by JSA Team as follows:

- 60% on Go Live,
- 30% on 6-month completion.
- 10% on 1-year completion

**Acceptance Criteria**

Each milestone shall be considered complete only after:

- Functional validation
- Performance validation
- Security validation (where applicable)
- Formal approval from JSA Tech Team

**Support & Maintenance Period**

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- Minimum 6-month support post go-live
  - Include bug fixing, Performance tuning, Minor feature updates

### Security & Compliance

- **Vulnerability Assessment and Penetration Testing (VAPT)**
  - VAPT Mandate: A Vulnerability Assessment and Penetration Testing (VAPT) exercise must be conducted by a CERT-In empanelled security agency before the platform goes live. The VAPT report must be submitted to JSA and all Critical and High severity findings must be remediated before go-live clearance is granted.

### Performance & Scalability Requirements

Performance Metric	Minimum Acceptable	Target
Concurrent Users	50,000 simultaneous users	1 Lakh concurrent (exam/enrolment peak)

- Load Testing: Vendor must conduct and submit a load test report simulating 1,000 concurrent users for a sustained 30-minute period before UAT sign-off. Test tool: Apache JMeter or equivalent.
- Report must show: average response time, 95th percentile response time, error rate (must be < 0.1%), and throughput (requests/second).
- Performance Regression: After every major release, a baseline performance test must confirm that no existing endpoint has degraded by more than 20% compared to the previous release.

### Technology Stack

Layer	Technology
Frontend	React.js / Angular with Tailwind CSS
Backend	Java (Spring Boot)
Database	PostgreSQL/ MySQL/ MongoDB
Mobile App	Flutter/ React Native

### Proposal Submission

Interested companies/agencies must submit the following:

1. Company Profile
2. Technical proposal & Experience details of similar projects
3. Implementation plan

4. Commercial proposal
5. Declaration regarding clean record
6. Project Cost (clearly indicating TAX included or excluded)

All pages / documents of the proposal must be **signed and stamped** by the authorized signatory. Without signature & stamped proposal will not be considered.

### Key Dates

Activity	Date
Issue of Tender	23 April 2026
Last Date for Submission	10 May 2026
Technical Evaluation	11 May 2026
Presentation / Demo	12-14 May 2026
Final Selection	15 May 2026

### Submission Address

Proposals should be submitted to:

General Secretary,  
Jambhani Sahitya Akademi,  
E-134, Sector – 1, JNV Colony,  
Bikaner (Rajasthan) – 334003.

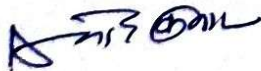
Email: jsakademi@gmail.com

### General Terms

- JSA reserves the right to accept or reject any proposal without assigning reasons.
- JSA may seek clarification from bidders during evaluation.

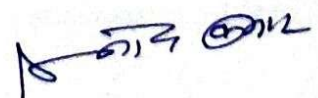
Place: Bikaner

Date: 22 April 2026



(Vinod Kumar)  
General Secretary  
Jambhani Sahitya Akademi, Bikaner  
Mob: 94176-81063

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# Jambhani Sahitya Akademi Web & Mobile Application [Phase-1]

Business Requirement Document (BRD)



JAMBHANI SAHITYA AKADEMI (JSA)  
E-134, SECTOR-1, JAI NARAYAN VYAS COLONY,  
BIKANER (RAJASTHAN) – 334 003  
Website: [www.jambhani.com](http://www.jambhani.com)  
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VERSION 1.3

22/04/2026

## 1. Version History

Version	Date	Change Description	Prepared By	Reviewed By	Approved By
1.0	02-02-2026	Initial Draft	Vikas Bishnoi	JSA Tech Team	JSA Gen. Sec.
1.1	10-02-2026	Documentation	Vikas Bishnoi	JSA Tech Team	JSA Gen. Sec.
1.1	12-02-2026	Updated Flow Diagrams	Vikas Bishnoi	JSA Tech Team	JSA Gen. Sec.
1.2	22-03-2026	Updated Documentation	Vikas Bishnoi	JSA Tech Team	JSA Gen. Sec.
1.3	14-04-2026	Updated Document: <ul style="list-style-type: none"><li>• Incorporating suggestions received from JSA Annual online meeting 07-04-2026 and,</li><li>• JSA App Development Tech Team online meeting on 11-04-2026</li></ul>	Vikas Bishnoi	JSA Tech Team	JSA Core Committee & Gen. Sec

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## 2. Overview of JSA Exam Web & Mobile Application

The **JSA Web & Mobile Application** is envisioned as a centralized digital platform to manage examination processes, candidate lifecycle, and academic services in a **secure, scalable, and user-friendly manner** and will support both Android & IOS mobile applications.

This Business Requirement Document (BRD) outlines the business objectives, functional scope, operational flow, and system expectations for designing and developing the Jambhani Examination Portal & Mobile App.

The document acts as a single source of truth for all stakeholders and serves as a baseline for:

- System design & technical architecture
- Candidate registration and authentication workflows
- Examination Centre management
- State and District Admin management
- Centre Admin (केंद्र प्रभारी, केंद्र सह-प्रभारी) management
- Managing master questions banks
- Generating question papers for an exam session (e.g. 2026).
- Answer key publication, result declaration & certificate generation
- Dashboard for displaying candidates' registration and result status (group and gender wise) and total centres.
- Online payment management
- Application development, testing, and deployment

## 3. Business Objectives

The key business objectives of the Jambhani Sahitya Akademi platform are:

- To conduct secure, scalable, and transparent examinations in both online and offline modes
- To provide easy and accessible registration for candidates
- To enable Centre-based participation with clearly defined roles and permissions
- All Sensitive data should be stored in encrypted format only.
- To develop functionality of admin login with control over answer key release, result declaration and digital certificate generation
- Support bilingual interface (Hindi & English)

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## Business Requirement Document (BRD) for JSA Web and Mobile Application (Phase-1)

- Design the platform in a way that supports future expansion without major redevelopment
- Bell notification (manage through admin)
- **Design system (Web & Mobile Application) such that there should no violation of IT Act 2000 (and any other latest amendments in IT act).**

### 4. Stakeholders

Stakeholder	Role
Exam Centres	Candidate registration, offline exam facilitation
Candidates / Students	Registration, exam attempt, result & certificate
Technical Client	Design, development, deployment & support
JSA Admin Authority	Overall handling of the portal and publishing of the results

### 5. Examination Structure

#### Question Paper Design

- Three sets: A, B, C
- Available in Hindi & English
- Same questions across sets with randomized question order and randomized options
- Ensures uniform difficulty level

#### Examination Modes

- **Offline Mode**
  - Centre-based examination
  - Eligible for prizes
- **Online Mode**
  - Web portal & Mobile application
  - Prize eligibility only if appearing from an exam centre

### 6. Candidate Registration & Login

#### Registration Types

- **Self-registration (Student)**

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Business Requirement Document (BRD) for JSA Web and Mobile Application (Phase-1)

• Registration via Centre Adin

**Student Registration (Self Registration)**

**Mandatory Fields:**

Sr.No.	Field Name	Data Type	Max Length / Format
1	Name	Text	100 characters
2	Father's Name	Text	100 characters
3	Mobile Number	Numeric / String	10 digits (India) 15 digits (International) [Add default country code +91- for India]
4	Email ID	String	100 characters
5	Country	Dropdown	'India' is default country for all.
6	State	Dropdown	— [store 2 char state code automatically in database]
7	District	Dropdown	—
8	Tehsil	Dropdown	—
9	Village/Colony	Text Box	100 characters
10	Examination Centre	Dropdown	Filtered by selected District/Tehsil  For International display "International Online Centre" list. and Centre code is "9999"
11	Exam Mode	Dropdown	Online / Offline If Country ≠ India, system will auto-select <b>Online Mode</b>
12	Exam Language	Dropdown	Hindi / English Applicable only for Online Mode candidates
13	Gender	Dropdown	Male/ Female/ Other
14	Date of Birth	Date/Calendar Selection	
15	Class Group	Class group derived from DOB (modifiable by Centre Admin)	A – 5 <sup>th</sup> to 8 <sup>th</sup> Class B – 9 <sup>th</sup> to 12 <sup>th</sup> Class C – Open for all



**Optional Fields:**

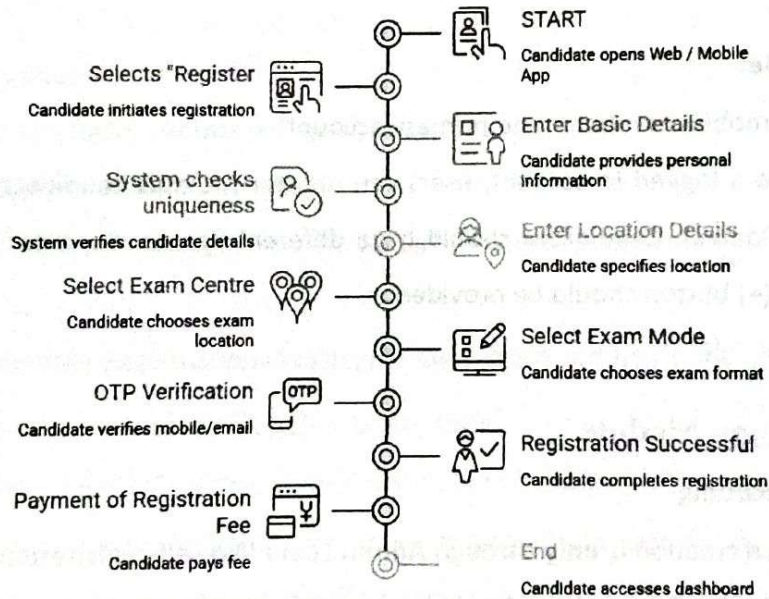
Sr. No.	Field Name	Data Type	Max Length/ Format
16	Caste	Dropdown + Conditional Text	Dropdown list or 50 characters (Only if 'Other' is selected from dropdown list)
17	Gotra	Text	50 characters

**Candidate Uniqueness Validation**

To avoid duplicate entries, each candidate will be uniquely identified using:

- Candidate Name
- Father's Name
- Mobile Number

**Candidate Registration Process**



**7. Login Mechanism**

Candidates can log in using:

- Mobile Number with OTP or Email ID with OTP (Same OTP on both)
- OTP validity: 5 minutes
- Sign in through Google, Facebook, Instagram, etc.

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## Business Requirement Document (BRD) for JSA Web and Mobile Application (Phase-1)

**OTP Template:** Dear User, Your OTP to login to Jambhani Sahitya Akademi Portal is {OTP}. Valid for 5 minutes. – JSA Team

- After OTP verification, the candidate will be redirected to the "Generate Password" screen, where they must create a password.
- From the second login onward, the candidate will access the system using this password only. A "Forgot Password" option should also be provided to allow password recovery.

**Generation of Registration Number:** For each candidate, one unique registration number will be generated by the system after successful registration.

**Format for Registration Number:** JSA-STATE CODE-XXXXXXX

STATE CODE in only 2 characters e.g. RJ – Rajasthan, HR – Haryana (e.g. JSA-RJ-1000029)

**NOTE:** Use two-letter country codes (ISO 3166-1 alpha-2 codes) instead of state code for international candidates.

### Business Rule:

- One mobile number = one primary account
- Inside a logged-in account, users can register multiple candidates (maximum 10 candidates). Candidates should have different names. So, after candidate login Add (+) button should be provided.

## 8. Centre Login Module

### Centre Onboarding

- Centre creation is only through Admin Login (No self-registration)
- The Centre Registration should be through following fields,
  - **Mandatory fields:**
    - Country, State, District, Tehsil, Village
    - Name of Centre
    - Full Address
    - Centre building's photo
    - Name of Kendra Prabhari (केंद्र प्रभारी)

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## Business Requirement Document (BRD) for JSA Web and Mobile Application (Phase-1)

- Mobile Number of Kendra Prabhari (केंद्र प्रभारी)
- **Optional Fields:**
  - Name of Kendra Seh Prabhari (केंद्र सह-प्रभारी)
  - Mobile Number of Kendra Seh Prabhari (केंद्र सह-प्रभारी)
  - Centre/School Principal/Manager contact number (Phone or mobile)
  - Centre Location Link (Google Map Link)
  - Centre creation Permission Letter from centre Principal/Manager with name to अध्यक्ष, जम्भाणी साहित्य अकादमी, Bikaner (can upload PDF or JPEG File).
- **Centre's data may be added (by Centre Admin user):**
  - Individually through Admin panel
  - In bulk using an Excel upload (predefined template)

### Centre Permissions

Inside Centre login, centres will be able to:

- Register students/candidates
- View & export registered student lists (by group, gender or exam-mode wise)

### Student/Candidate Registration via Centre Login (द्वारा केंद्र प्रभारी और सह-प्रभारी)

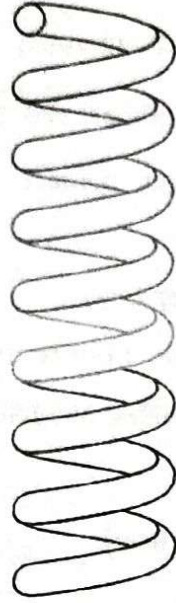
When a student is registered through a centre login:

- Location details (Country, State, District, Tehsil, Centre) will be **auto fetched**
- To ensure **faster and error-free registration** at the centre level, only essential personal and exam-related details will be required:
  - Fields from **Sr. No. 1 to 4 and 11 to 17** (16 and 17 are optional field) from Section "Candidate Registration & Login".
  - Bulk online Payment for all the registered candidates in current slot and previous slot also (if any payment pending).
  - **Confirm Registration after Payment and allot Registration number.**

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### School Student Registration Process



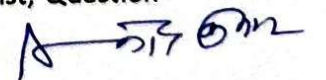
-  School Login
-  Select "Register Student"
-  System Auto-Fetches Details
-  Enter Student Personal Details
-  Select Exam Mode & Language
-  OTP Verification
-  Payment of Registration Fee
-  Student Registered Successfully

### Online Attendance Management

- A provision shall be provided within each Centre login to mark attendance digitally during examination for offline candidates, using their roll number.
- The system shall ensure that each candidate's attendance can be marked only once, preventing duplicate or multiple entries.
- The exam will be held group wise (A, B, C). So, before attendance system ask for a Group name by List box.
- This attendance page display Prefix FIXED character/digit (up to group name) automatically the Centre admin will fill only last left digits only. So, process make fast.
- Attendance reports shall be available within the admin login, with provision to view and export the data for monitoring and record-keeping purposes.

### Session-wise Master and Transaction Data Management

Master and Transaction data are managed such that each exam session will remains in separate folder (e.g. JGP2026, JGP2028, JGP2030 etc.). Normally JSA conduct Exam in every 2 years. It may be conducted in every year. So, each exam session all type of transaction data is dept (centre list, Centre Admin list, Registered candidates list, Question

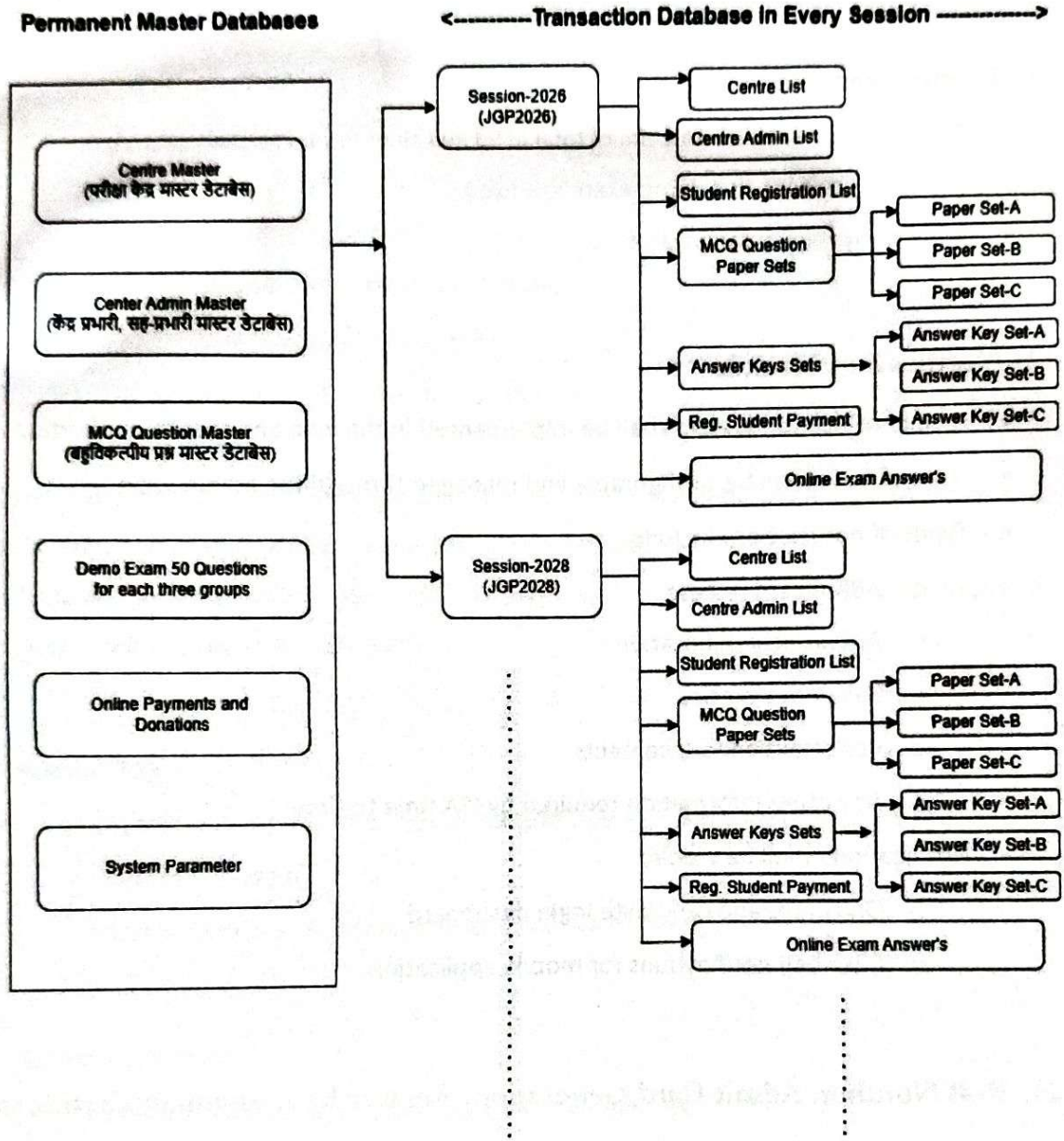


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## Business Requirement Document (BRD) for JSA Web and Mobile Application (Phase-1)

Paper Sets, Answer Key Sets, Online Exam Fee records of registered candidates, Online exam answers etc.) separately. (as explained in following figure).



### 9. Correction Window

- A 15-day correction window will be available for both individual candidates and centres.
- Centre Admin and Candidates (in case of self-registration) can edit submitted fields including the selected examination centre.
- After correction window, the application will be locked and no further edits allowed.

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## 10. Examination Fee

- Examination fee will be Rs. 20/- per candidate per exam for a particular session.

## 11. Demo Examination

- There should be one demo exam of total of 50 questions inside the candidate login.
- The Questions for this demo exam are fixed.
- It will always be live for practice.

## 12. Notification Module

- A bell notification system shall be implemented in the web and mobile application.
- Notifications shall be configurable and managed through the admin login.
- Types of notifications include:
  - Admit card release
  - Answer key publication
  - Result declaration
  - Important announcements
  - Any other information required by JSA time to time
- Notifications shall be visible:
  - On centre and candidate login dashboard
  - Push bell notifications for mobile application.

## 13. Roll Number, Admit Card Generation, Answer Key, Result & Certificate

### Roll Number Generation

- The roll number for each candidate will be generated by the Super Admin (JSA login).
- To generate roll number, first sort data centre wise in group wise and alphabet wise.
- Format: "Centre Code–Group–Four-digit Number" (e.g. 1234A1234, where.
  - the centre code should be of 4 digit and start from 1001.

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## Business Requirement Document (BRD) for JSA Web and Mobile Application (Phase-1)

- Group be A, B, C (A for Group A, B for Group B, C for Group C).
- the four-digit number sequence **begin from 1001 for each Centre**
- **for all international candidate use "9999" as a centre code**

### Admit Card Generation

Admit Card will be generated only when:

- Registration is successfully completed and required payment submitted
- Correction window is closed
- Exam date and centre mapping is finalized
- Can be downloaded from website
- Format will be shared later by the JSA team

**Note:** Upon admit card activation, automated SMS and email notifications shall be triggered to the registered mobile number and email ID of the candidate.

**Template:** *Dear Candidate, your Jambhani Exam Admit Card is now available for download. Please login to download. – JSA Team*

### Answer Key

- Admin will upload the **official answer key (for each group) inside the student and centre login**
- Answer key will be released **next day after the exam**

### Result Declaration

- Result will be generated **through Super Admin user.**
- Result will be visible inside candidate login after declaration with automatic Certificate Generation in the downloadable form inside candidate login.

## 14. Study Material

- Study material will be provided in PDF format on website and inside each login and it will be in downloadable PDF format.



## 15. Prize Eligibility Rules

Prizes applicable only for

- offline examination candidates
- Online candidates appearing at **authorized exam centres**

Not applicable for

- Fully remote online exam candidates

## 16. Super Admin Functionalities

Configure registration timelines and exam schedules including

- Exam Session (year in 4 digits, e.g. 2026)
- Registration Start & End Date
- Manage Centre login creation and deletion
- Exam Date
- Exam Fee in Rs. (e.g. 20)
- Auto Log out TIME in min (e.g. 30 min)
- Group wise Exam Start & End Time
- Control answer key & result publishing
- Answer Sheet Display Date
- Manage creation of Master question bank master in following format:

Group (A/B/C)	Ques in Hindi	Opt 1	Opt 2	Opt 3	Opt 4	Correct Ans
Group (A/B/C)	Ques in English	Opt 1	Opt 2	Opt 3	Opt 4	Correct Ans

- While creating and managing the question bank, the system shall provide a provision to upload and manage images/photos within the question (optional filed) statement as well as within individual answer options. The system shall support common image formats such as JPG, PNG, and JPEG. All images must be properly rendered and displayed across both the web portal and mobile application.
- To prepare question paper for each group from master question bank in Hindi & English and to finalize the total MCQ in each group paper set.

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## 17. Reporting & Analytics

- The system shall provide a provision for generating and accessing various reports from the super admin and Centre admin dashboard. Reports shall include, but not be limited to:
  - **For super Admin Dashboard:**
    - Total Examination Centre List
    - Total Centre Admin list those registered in Exam
    - Candidates Registrations:
      - Total number of registrations
      - Gender-wise distribution
      - Group-wise distribution (A/B/C)
      - Country-wise distribution
      - State-wise distribution
      - District-wise distribution
      - Tehsil-wise distribution
      - Centre-wise distribution
      - Exam fee Payment detailed report (Centre wise, district wise and state wise)
      - List of Candidates whose exam fee **Payment not paid yet** (centre wise)
  - The super admin shall have the ability to view and export the list of registered candidates in standard formats (e.g., Excel/CSV/pdf). That can be filtered by Groupwise, Exam mode wise, Gender wise, Centre wise etc.
- **For Centre Admin Dashboard:**
  - Similar reporting functionality shall be available within the Centre login, **restricted only to candidates registered under their respective centre as:**
    - Total number of registrations on his/her Centre
    - Gender-wise distribution
    - Group-wise distribution (A/B/C)
    - Exam mode wise
    - Exam fee Payment report (group wise)



- List of Candidates whose exam fee Payment not paid yet (group wise)
- The centre admin shall have the ability to view and export the list of registered candidates (for his/her centre) in standard formats (e.g., Excel/CSV/pdf). That can be filtered by Groupwise, Exam mode wise, Gender wise etc.

## 18. Payment & Donation Module

Functionality for online payment for donations to:

- JSA membership (पंचवर्षीय)
- JSA membership (आजीवन)
- झीणी वाणी सदस्यता
- वार्षिक अंशदान (Annual Subscription Fee)
- जाम्भाणी ज्ञान परीक्षा फीस
- विकाश कार्य हेतु दान
- अन्य पेमेंट (use Remarks for detail)

The option for online payment mode like QR Code and Net Banking etc. will be explored by Tech team members.

## 19. UI/UX Guidelines

1. The complete UI/UX of the web and mobile application shall be designed and developed by the technical team. The design shall follow a modern, intuitive, and user-friendly approach ensuring ease of navigation for all stakeholders.
2. Wireframes and design prototypes shall be shared with JSA Tech Team for approval before development.
3. Consistency in design across Web and Mobile applications must be maintained.
4. Avoid usage of BLUE color in UI.
5. Ensure accessibility and simplicity.
6. All date format in Indian format (e.g. dd/mm/yyyy)



7. Each user's Login information (e.g. username, user ID, Email/Mobile) display on top right corner of all webpages.

## 20. Technology Stack

Layer	Technology
Frontend	React.js / Angular with Tailwind CSS
Backend	Java (Spring Boot)
Database	PostgreSQL/ MySQL/ MongoDB
Mobile App	Flutter/ React Native

## 21. Non-Functional Requirements (High-Level)

- Student Self Registration web page information will be displayed in English & Hindi language.
- Ensure that only candidate will see his/her information after login only, not of any other candidate.
- Scalable to handle peak concurrent users
- Data privacy and back up policy.
- Sensitive data are stored in encrypted format.
- The website home page should load within  $\leq 3$  seconds under normal conditions, and  $\leq 5$  seconds under peak load conditions.
- Ideal time for auto logout to 30 minutes.

## 22. Assumptions & Dependencies

The following assumptions are considered to make live this web and mobile application,

- **Domain name and hosting infrastructure (webpace/server) are managed by JSA.**
- The responsibility of the technical team is limited to:
  - Application development and deployment on the provided server environment
  - Post-deployment support and maintenance for a **period of one year.**



## Business Requirement Document (BRD) for JSA Web and Mobile Application (Phase-1)

- Conducting Vulnerability Assessment and Penetration Testing (VAPT) prior to go-live to ensure the application meets baseline security standards
- Design system (Web & Mobile Application) such that there should no violation of IT Act 2000 (any any other latest amendments in IT act).

### 23. Phase 2 – Extended Digital Services

In Phase 2, the mobile app and portal will also include:

1. Complete website content integration
2. Members & Officials directory
3. Jambhani Sanskar Shivir registration module
4. National and International Conference registration and certificate generation module
5. Online book purchase facility
6. JSA Magazine Jhini wani (झीणी वाणी) registration module
7. AI Chat Bot Integration
8. Any other service as and when decided by JSA Committee/Team/Official

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