



Crafts Software

Business software, built to be used

TECHNICAL SPECIFICATION & FEATURE GUIDE

HallERP

Hall and banquet management, from the first enquiry to the final bill.

One system for your front desk, venue team and accounts: bookings by full day, morning or evening, event-day close-out, billing with the right tax, expenses, profit and reports. Built for India, ready for any country.

24

working modules

3

screen languages incl.
Arabic

7

staff roles with
permissions

195

automated checks pass

Version Phase 19

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Prepared by **Crafts Software**

For the client's review



Product overview

Technical specification and features.
What HallERP is, who uses it and how it is delivered

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HallERP is a staff-only management system for function halls, kalyana mandapams and banquet venues. It replaces the diary, the Excel sheets and the loose receipts with one place where every date, payment, item and rupee is recorded once and reused everywhere.

● Staff-only, private

No customer login and no public pages. Your team signs in; customers are reached by WhatsApp, SMS or email. Nothing about your business is public.

● One install per client

Each venue gets its own installation and its own database on its own server or hosting. Your data is never mixed with anyone else's.

● India first, global ready

GST (CGST + SGST / IGST), UPI and Indian number formats out of the box. Switch to VAT or no tax, any currency, any timezone, English / Hindi / Arabic.

Works for halls and banquets. A hall can charge fixed rent and bill extras after the event. A banquet adds menus priced per plate, guaranteed and final guest counts, and service charge. The venue type in Settings switches the right tools on.

One booking, end to end



Every step feeds the next. A rate card item chosen at booking lands on the invoice; a meter reading at close-out becomes a bill line; a payment posts to the books; the event's profit is calculated from all of it.



Modules and features

Technical specification and features
24 modules in four areas, all reachable from one menu

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Front desk

7 modules

● Dashboard

The day at a glance, for the owner and the front desk.

- Collected, income, dues and deposits held
- 12 compact KPI cards: events, holds, close-outs pending, enquiries, site visits, conversion, collected today, profit, cash in hand, bills due
- 14-day availability ribbon; click a free cell to book
- Today and this week timeline, needs-attention list
- Income vs expense, dues by age, top halls, event mix

● Bookings

Fast, error-proof booking with the whole history of a date.

- Full day, morning or evening session (priced as a percentage of the full day)
- Multi-day and multi-hall bookings; double booking impossible, enforced by the database
- Tentative hold with expiry, token amount, one-click confirm
- Edit the agreed price and add rate card items while booking
- Printable booking slip with tax estimate, token and balance
- Waitlist when a date is full; cancellation refund policy by days before the event

● Calendar and resource view

See every hall on every date.

- Month calendar per hall with status colours
- Resource grid: halls by days, with half-filled cells for one free session
- Maintenance blocks and special days shown on the grid

● Enquiries

A visual sales pipeline.

- Columns: New, Contacted, Site visit, Quoted, Won, Lost
- Drag cards between stages; lost reason recorded
- Call, WhatsApp, Make quotation and Book from the card
- Reuses the customer when the phone number is already on file

● Quotations

Turn an enquiry into a priced offer.

- Built from the enquiry: hall, dates, rent, extras, discount
- Validity date; Draft, Sent, Accepted, Booked, Expired
- Converts to a booking without retyping

● Follow-ups and site visits

Nothing falls through the cracks.

- Follow-up reminders with due dates per enquiry
- Site visits scheduled and marked done or missed
- Counts shown on the dashboard

● Customers

A directory that stays fast with thousands of customers.

- List with server-side search by name, phone, email or city; segments (event coming up, repeat, no booking yet); sort by value, latest event, bookings; paged 12 to 96 per page
- Per customer: bookings, enquiries, quotations, account and dues, contact preferences and consent, ID proof and documents, tax registration number
- Privacy tools: export a customer's data, or erase personal details while keeping the books intact

Venue

6 modules

HallERP - Technical specification and features

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● Halls and pricing

Every hall with its own rules.

- Capacity, area, refundable deposit, branch, photos
- Rate rules by weekday, season and special day, with priority
- Instant quote for any date and session

● Rate card

Price everything you sell once.

- Add-ons: category, unit, rate, cost, tax rate (generator, extra AC hour, decoration)
- Menus priced per plate, minimum guests, service charge
- Utility tariffs (electricity, water, diesel) and a damage price list

● Event close-out

One guided screen for the day after the event. Every item lands on the booking's tax invoice, so the invoice is always the running bill.

- Meter readings with tariff, free units and minimum charge
- Add-ons and catering (guaranteed vs final guests, billed on the higher)
- Damage register with photos; approve, reduce or waive
- Condition report with customer signature, printable
- Re-running a step replaces its lines, never duplicates them
- Finalise issues the invoice and stores a signed record

● Operations

Run the event, not just book it.

- Event tasks and checklists, staff and roster, vendors
- Check-in gate: mandatory checklist must be done
- Handover and settlement of deposit and refunds

● Inventory and purchasing

Chairs, crockery, linen, consumables.

- Stock by item with reorder alerts
- Purchase requests and orders, goods received notes
- Shortage tracking, stock valuation, vendors

● Maintenance

Keep halls ready and assets healthy.

- Work orders with status, preventive schedules
- Asset register; a hall can be blocked on the calendar

Money

7 modules

● Billing and invoices

Correct tax documents, printable and consistent.

- Tax invoice, proforma, credit note, debit note
- GST (CGST + SGST or IGST by state), VAT or no tax
- Different tax rates on one invoice (rent 18%, food 5%) with a line per rate
- Discount, round-off, locking, TDS, notices, UPI and bank details
- Event date highlighted at the top

● Payments and receipts

Every rupee received, traceable.

- Cash, UPI, bank, card, cheque; token, advance, balance
- Numbered receipts; cash limit per event
- Cancel a receipt: books get a reversing entry, nothing is deleted
- Optional online payment link (Razorpay or any link)

● Approvals

Control without slowing the desk.

- Charges and expenses above a limit wait for a manager
- Approve or reject with a note; approving posts the charge

● Expenses and cash book

Know where money went.

- Expenses by category, vendor, hall, with receipt
- Cash book: top-up, bank deposit, daily count showing short or over
- Regular bills (rent, electricity) due reminders, post in one click

● Costs and profit

Profit per event, not guesswork.

- Revenue less expenses, vendors, add-on, catering and utility cost
- Add-on sales, utilities and damage reports

● Accounting

Real double-entry books, posted automatically.

- Chart of accounts, trial balance, customer ledger
- Period lock; books always balance (checked by tests)

● Reports

Ten ready reports with quick periods, KPI cards, compact charts and sortable, paged tables.

Booking summary

Occupancy

Collections

Dues ageing

Hall profit

Electricity and damage

Vendor payables

GST summary

GST for GSTIN customers

Reconciliation

Download as CSV, save a filter, or email a report on a schedule (daily, weekly, monthly).

Admin

4 modules

● Notifications

Reach customers on the channel they use.

- WhatsApp, SMS (Indian DLT headers, Twilio, custom gateway) and email
- Templates per language, delivery log, in-app inbox
- Fallback to SMS when WhatsApp cannot be sent; opt-outs honoured

● Team and security

The right access for each person.

- Seven roles with a permission matrix
- Two-factor sign-in (authenticator app)
- Forced password change, audit log of changes

● Tools

Move data in and out safely.

- CSV import with duplicate checks; CSV export of bookings, payments, invoices
- Backups: compressed database and uploads, checksum, restore test
- Documents and ID proofs per customer or booking

● Settings and setup wizard

Configure once, in separate tabs.

- Business and region, Tax and invoices, Messages, Payments, Bookings and refunds, Branches, Password
- Country presets fill currency, tax, timezone and phone code



HallERP is deliberately simple to host and maintain: plain PHP and MySQL, no framework to upgrade, no build step and no third-party scripts loaded at run time.

Area	Specification
Backend	PHP 8.2, no framework and no Composer. REST JSON API under /api/v1 with a small router, services for each business area and a permission layer.
Database	MySQL 8 or MariaDB, InnoDB, utf8mb4. Versioned SQL migrations, safe to re-run. Money stored as whole minor units (no rounding drift).
Frontend	Single-page app in plain JavaScript modules and CSS. No CDN, no external fonts or scripts. SVG charts. Light and dark themes. Responsive from phone to wide desktop.
Hosting	XAMPP, shared hosting or any Apache + PHP + MySQL server. One folder to upload, one database to create, then a setup command.
Scheduled jobs	Cron scripts for message queue, reminders, scheduled reports, backups and maintenance.
Offline friendliness	Service worker caches the app shell; handover entries queue when the connection drops.
Localisation	Currency, decimals, number format, date format, timezone and tax per install. Screens in English, Hindi and Arabic (right to left).
Integrations	SMTP email, WhatsApp Cloud API, SMS providers (including a custom HTTP gateway), optional Razorpay. All keys stored encrypted.
Browsers	Current Chrome, Edge, Firefox and Safari on desktop, Android and iOS.

● Security

- Role-based access on every API call
- CSRF protection and a strict content security policy
- Secrets encrypted with AES-256-GCM
- Two-factor sign-in; forced password change
- Audit log of important changes
- Receipts and expenses are cancelled by reversal, never deleted
- Privacy tools for customer data export and erasure

● Quality and reliability

- 195 automated checks pass, covering booking rules, tax, payments, close-out, books and permissions
- Built-in security and health self-check script
- Automated backups with checksum and a restore test
- Slow query and slow request logging
- Double booking prevented by a database constraint

Server requirements

Item	Minimum
Technical specification and features	
Web server	Apache 2.4 (XAMPP is fine)
PHP	8.2 with pdo_mysql, mbstring, openssl, zip, gd or imagick (for photos)
Database	MySQL 8 (or an equivalent MariaDB)
Storage	Space for uploads and daily backups (a few GB for a busy venue)
Connectivity	HTTPS recommended; internet needed only for WhatsApp, SMS, email and online payments



Roles, scope and honest limits

Technical specification and features
Who can do what, and what is not included

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Role	Typical access
Owner / Admin	Everything, including settings, locked-invoice override, period lock, team, backups and privacy requests.
Manager	Bookings, close-out, rate card, approvals, expenses, profit, operations, inventory, maintenance, reports and exports.
Accountant	Billing, payments, accounting, expenses, reports, profit; read access to bookings and close-out.
Front desk	Enquiries, quotations, bookings, price edit at booking, close-out entry, charges, handover, customer records.
Store-keeper	Inventory and purchasing, maintenance entries, handover checklists.
Staff	Handover, tasks, meter readings and photo evidence on assigned events.

● Built to be

- Staff-only: no customer portal to secure
- One install, one client, one database
- Understandable: plain PHP a developer can read
- Printable: invoices, receipts, slips, reports

● Not included in this version

- Customer portal, public booking page, online self-booking
- Multi-client signup, plans and subscriptions
- E-invoicing (India IRP, Saudi ZATCA) and input tax credit
- Bank statement reconciliation; 3-decimal currencies
- One-click restore button (restore is a command-line step)
- Staff wages split per event in the profit report

Integration note. WhatsApp, SMS and online payment connections follow each provider's published interface and are tested against simulated responses. Each client should send a live test message and a test payment with their own provider account at go-live; setup is a few minutes in Settings.

Delivery at a glance

● Install

Upload the folder, create the database, run the setup command, sign in and follow the setup wizard.

● Configure

Business details, tax, halls and rates, rate card, messages, staff logins. Import existing customers by CSV.

● Go live

Take real bookings, print slips and invoices, and review the dashboard and reports from day one.