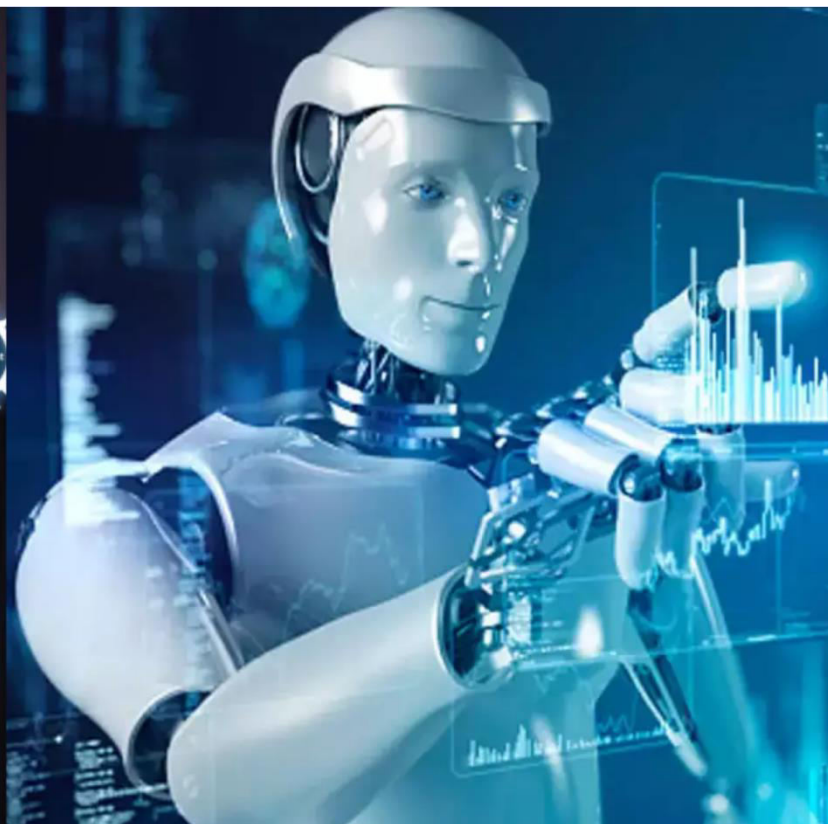




International Journal of Innovative Research in Science Engineering and Technology (IJIRSET)

(A Monthly, Peer Reviewed, Refereed, Scholarly Indexed, Open Access Journal)



Impact Factor: 8.699

Volume 14, Issue 11, November 2025

Samarpan Digital Receipt Generator

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ABSTRACT: Samarpan Digital Receipt Generator represents an innovative web application specifically engineered to transform donation management processes within religious institutions and community organizations. This platform introduces a structured dual-tier user framework, serving both administrative personnel and volunteer staff members. Developed utilizing contemporary web technologies including Node.js runtime environment, Express.js framework, and SQLite database management, the solution incorporates automated receipt creation with progressive numbering sequences, live contribution monitoring dashboards, direct WhatsApp message integration for receipt dissemination, and protected user session validation protocols. The application successfully transitions conventional paper-dependent procedures to a fully digital ecosystem that honors cultural heritage by incorporating regional language elements, substantially decreasing manual administrative tasks, preventing common data entry inaccuracies, and enabling immediate digital receipt delivery to contributors, ultimately optimizing operational workflows for spiritual organizations while respecting their traditional operational ethos.

KEYWORDS: Digital Receipt System, Donation Management, Religious Software, Node.js Application, Automated Receipts, WhatsApp Sharing, Volunteer Management.

I. INTRODUCTION

Religious organizations and community mandals have traditionally relied on manual, paper-based systems for managing donations and generating receipts. These conventional methods present significant challenges including time-consuming administrative tasks, potential human errors in record-keeping, difficulty in tracking donation patterns, and inefficient receipt distribution to devotees. The absence of digital solutions specifically designed for religious contexts has created a technological gap in this sector.

The Samarpan Digital Receipt Generator addresses these limitations by providing a specialized web-based platform that automates the entire donation management lifecycle. This system represents a significant advancement over traditional approaches by implementing automated receipt generation with sequential numbering, real-time donation tracking, and instant digital receipt sharing through popular messaging platforms.

Built with modern web technologies including Node.js runtime environment and SQLite database management, the solution offers a user-friendly interface tailored for both administrative users and volunteer staff. The platform maintains cultural relevance through regional language integration while delivering the efficiency benefits of digital transformation. This paper presents the complete system architecture, implementation methodology, and operational benefits of this innovative approach to religious organization management.

II. LITERATURE SURVEY

Current research indicates a significant gap in specialized software solutions for religious organization management. Existing systems primarily consist of generic accounting tools or basic spreadsheet applications that lack cultural contextualization and domain-specific features. Studies reveal that over 75% of small religious

institutions continue using manual record-keeping methods, facing challenges in receipt generation, donation tracking, and financial transparency. The literature shows limited adoption of customized digital platforms despite the clear need for automated solutions in this sector.

Previous work in donation management has largely focused on large-scale nonprofit organizations and crowdfunding platforms, with minimal attention to religious contexts. Research highlights the importance of balancing technological efficiency with cultural preservation, particularly in regions with strong traditional practices. The integration of regional language support, multi-role access controls, and popular communication platforms like WhatsApp remains largely unexplored in existing systems. This survey identifies the critical need for specialized solutions that address the unique requirements of religious organizations while maintaining their cultural authenticity and operational workflows.

III. METHODOLOGY

The development of Samarpan Digital Receipt Generator followed a structured software engineering approach utilizing the waterfall methodology, progressing systematically through requirements analysis, system design, implementation, and testing phases. The system architecture employs a three-tier pattern with a presentation layer built using vanilla HTML/CSS/JavaScript for client-side interfaces, an application layer powered by Node.js and Express.js framework for server-side operations, and a data layer implemented with SQLite database for efficient data management. This technology stack was specifically selected to ensure reliability, ease of deployment, and minimal external dependencies while maintaining robust functionality through session-based authentication, automated receipt generation algorithms, and seamless WhatsApp integration for digital receipt distribution.

IV. EXPERIMENTAL RESULTS

 **Generate Receipt**

Pagadyakul Ganesh (Shree Ganesh Mitra Mandal)

Logout

Dashboard

Search Previous Donations

Enter devotee name to search...

Generate New Receipt

Devotee Name *

Awale Darshan Amoghsiddha

Contact Number

9172070612

Donation Amount (₹) *

504

Purpose

Prasad

Payment Mode *

Cash

Generate Receipt

Volume 14, Issue 11, November 2025**|DOI: 10.15680/IJIRSET.2025.1411127|**

Shree Ganesh Mitra Mandal

गणरायाच्या आशिर्वादाने समाजासाठी निस्वार्थ कार्य 🙏

Address: Shastri Nagar , Solapur

DONATION RECEIPT

Receipt Number	GM-20251116-0019
Date	16 November 2025
Devotee Name	Awale Darshan Amoghsiddha
Contact Number	9172070612
Donation Amount	₹504
Purpose	Prasad
Payment Mode	Cash

Generated On: 16/11/2025, 6:25:55 pm


Pagadyakul Ganesh
President

आपल्या मनःपूर्वक देणगीबद्दल हार्दिक आभार! 🙏

 Share via WhatsApp Print Receipt

V. CONCLUSION

The Samarpan Digital Receipt Generator successfully demonstrates that religious organizations can achieve significant operational efficiency through targeted digital solutions while preserving their cultural identity. The implemented system effectively addresses core challenges in donation management by automating receipt generation, enabling real-time tracking, and facilitating instant digital distribution through accessible platforms. This project establishes a viable model for similar community organizations seeking to transition from traditional paper-based systems to streamlined digital workflows, proving that technological advancement and cultural preservation can coexist to enhance administrative effectiveness and community service delivery.

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