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# "Design and Implementation of a Web Application for Sai Darshan Portal"

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Abstract - The Sai Darshan Portal is an innovative webbased application designed to streamline the booking process for devotees wishing to visit the Shri Sai Baba shrine at Shirdi. By providing an integrated platform for scheduling darshan, pooja, aarti, and accommodation services, the portal enhances accessibility and convenience for users worldwide. Utilizing modern web technologies, it supports secure user registration, flexible login methods, and seamless payment transactions. The portal also equips administrators with tools to efficiently manage bookings, oversee transactions, and address user concerns. This system aims to improve the overall pilgrimage experience by reducing manual effort, minimizing queue times, and ensuring transparent access to trust facilities. Additionally, the portal provides real-time updates on availability, enabling better planning for devotees. Robust security measures such as captcha and secure payment gateways ensure data protection and prevent unauthorized access, contributing to a safe and reliable user environment.

Keywords: - Sai Darshan Portal, Online Booking System, Shri Sai Baba, Shirdi, Darshan Booking, Pooja Reservation, Aarti Scheduling, Accommodation Management, Secure Payment Gateway, User-Friendly Interface, Pilgrimage Management, Web Application.

### 1.INTRODUCTION

The Sai Darshan Portal is an online booking system designed to serve devotees of Shri Sai Baba who visit Shirdi, one of the most revered pilgrimage sites in India. Shirdi attracts millions of visitors every year, all wishing to seek the blessings of Sai Baba through darshan,pooja, aarti, and other spiritual services. Traditionally, the process to book these services was manual, requiring devotees to stand in long queues or rely on offline methods, which often led to confusion, inconvenience, and wasted time. The need for a modern, easy-to-use platform became apparent to simplify the entire experience for both the devotees and the managing trust. This portal allows devotees to book darshan slots, as well as schedule pooja and aarti ceremonies, all through a user-friendly website. It offers real time availability of various slots, enabling devotees to select the date and time that best fits their plans. The portal also extends the booking functionality to accommodation at Bhakt Niwas Sthan, which are trust-runlodging facilities, making it easier for devotees to arrange their stay near the shrine. By integrating all these services into one platform, the Sai Darshan Portal brings convenience and transparency to the booking process. One of the key features of the portal is its accessibility. It is designed to be intuitive and simple to use for people of all ages and backgrounds, including those who may not be tech savvy.

Registration and login are straightforward, with options to update user profiles, view booking history, and manage wishlists. The portal also supports secure online payments, ensuring that all transactions are safe and reliable.

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From an administrative perspective, the portal offers a comprehensive dashboard for the trust administrators and managers. They can easily oversee user information, track bookings, manage accommodations, and handle grievances efficiently. This automation helps reduce manual, errors and speeds up the management process, allowing the trust to provide better service to devotees.

In summary, the Sai Darshan Portal is a crucial step towards digitizing the pilgrimage experience at Shirdi. It reduces the hassle of traditional booking methods, provides real-time information, and ensures smooth management of all spiritual services. By embracing modern technology, the portal enhances the overall experience for devotees, helping them focus on their spiritual journey with peace of mind.

### 2. Methodology

# 2.1 Technology Stack

The Sai Darshan Portal was developed using the Waterfall model, which follows a sequential approach involving requirement gathering, system design, implementation, testing, and deployment. The backend of the system was implemented using Java (J2EE) for managing business logic, while the React JS framework was used for building a dynamic, responsive, and user-friendly frontend. Data was securely stored and managed using a MySQL relational database. The entire application was hosted locally during development and tested using modern web browsers such as Chrome and Firefox. The portal adopts a modular design strategy that separates system functionalities into individual components like user authentication, service booking (darshan, pooja, aarti, accommodation), transaction handling, and admin dashboard management. Each module was independently developed and integrated to ensure scalability, maintainability, and improved test coverage.

Visual modeling tools like ER Diagrams, Use Case Diagrams, and Architecture Diagrams were used to design and validate the structure of the application. This approach ensured the creation of a secure, scalable, and highly accessible web solution that significantly modernizes the pilgrimage management system at Shirdi.



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### 2.2 Data Collection and Management

The Sai Darshan Portal required accurate and well-structured data to ensure seamless booking and management of temple services. Core data elements included darshan schedules, pooja and aarti timings, accommodation details, and user information. Primary data was gathered from the official Shri Saibaba Sansthan Trust sources and verified printed brochures. This information was digitized and formatted for database integration using structured tables. A MySQL database was designed to store and manage all data securely, including user credentials, booking records, and transaction logs. Each dataset was normalized to maintain consistency and reduce redundancy. Role-based access control was implemented to protect sensitive information. The admin panel provides tools to update, manage, and monitor all key data in real-time. Input validation and periodic backups were also established to prevent data loss and ensure integrity. This robust data management process enabled the portal to deliver fast, secure, and reliable services.

# 3 Project Scope and Limitations

Scope: The scope of this project is to develop a web-based portal that simplifies and stream lines the process of booking darshan, pooja, aarti, and accommodation services for devotees visiting Shirdi. The platform is designed to provide real-time slot availability, user registration and login, and access to key services offered by the Shri Saibaba Sansthan Trust. The system includes features for both end-users (devotees) and administrators. Devotees can manage their bookings, view updates, and plan their visit, while administrators can handle user data, monitor activity, and manage trust services more efficiently. The portal aims to reduce manual workload, improve service delivery, and enhance the overall pilgrimage experience. It is designed to be user-friendly, accessible to people of various age groups, and scalable for future upgrades, such as additional service types or multilingual support.

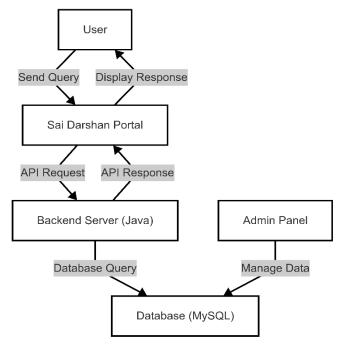
**Limitations:** Despite its usefulness, the current version of the Sai Darshan Portal has certain limitations. The platform requires a stable internet connection, which may be a barrier for some users in remote or rural areas. Currently, the portal operates only in a single language and does not support multilingual access, which could limit usability for non-native speakers. Real-time updates depend on the accuracy and maintenance of the backend database, which must be updated manually by administrators. The portal does not include advanced features such as AI-based assistance or automated customer support. Also, the system does not integrate mobile app functionality, which may limit accessibility for users who prefer smartphone apps over websites. These limitations can be addressed in future development by introducing automation, AI support, and mobile compatibility.

#### 4 Analysis Model

The analysis model of the Sai Darshan Portal demonstrates how various system components interact to facilitate efficient user access and data management. It offers a high-level overview of the flow from user requests to the backend processing and response delivery.

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- User: Initiates requests or actions through the web interface.
- Web Interface (React JS): Captures user input, displays relevant pages, and communicates with the backend.
- Backend Server (J2EE): Processes requests, applies business logic, and interacts with the database.
- Database (MySQL): Stores structured data including user information, notices, feedback, and events.
- Admin Panel: Allows authorized personnel to manage portal content, user data, and system settings.

### 5. Results and Discussion

The Sai Darshan Portal was successfully developed and tested, delivering a seamless experience for devotees and administrators. The following outcomes were observed during the testing phase:

- The portal efficiently processed booking requests for darshan, pooja, aarti, and accommodation with accurate slot availability
- · Transactions and booking confirmations were handled smoothly, ensuring clarity for users.
- The user interface was responsive and accessible across various devices, including desktops and smartphones.
- Feedback from users during testing indicated high satisfaction with the ease of navigation and booking procedures.
- The system handled invalid inputs and errors gracefully, providing helpful messages to guide users. Overall, the Sai Darshan Portal met its objectives by improving accessibility



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and management of temple services while maintaining reliability and user-friendliness.

## 5.1 Applications

The Sai Darshan Portal can be utilized in various ways to improve the experience for devotees and temple administration:

- Devotee Convenience: Enables devotees to easily book darshan slots, pooja, aarti, and accommodation from anywhere, reducing the need for physical queues.
- Administrative Efficiency: Helps temple management monitor bookings, manage user data, and handle grievances through a centralized admin dashboard.
- Real-Time Slot Availability: Provides information on available darshan and pooja timings, allowing better planning for devotees.
- Accessibility: Makes the temple services accessible to a wider audience, including those who are unable to visit in person due to distance or health reasons.
- Transparency: Increases transparency in booking and accommodation allocation processes, reducing manual errors and conflicts.
- Scalability: The system can be expanded to include features like multilingual support,

mobile app integration, donation management, and AI-based assistance in the future.

### 6. CONCLUSIONS

The Sai Darshan Portal successfully streamlines the booking process for devotees wishing to visit Shirdi. By providing an online platform for darshan, pooja, aarti, and accommodation bookings, it eliminates the need for long queues and manual paperwork. This digital transformation enhances convenience, making the process faster and more transparent for users. The system not only benefits devotees but also empowers temple administrators by offering an efficient dashboard to manage bookings, payments, and grievances. The use of modern technologies such as J2EE, React JS, and MySQL ensures the portal is scalable, secure, and easy to maintain. These features contribute to a smoother operation of temple services, especially during peak seasons. While the portal addresses key requirements effectively, there is still potential for growth. Future enhancements like multilingual support, AI-powered assistance, and mobile application integration will further enrich user experience and accessibility. Overall, the Sai Darshan Portal marks an important step in leveraging technology to improve religious service management and devotee satisfaction.

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