# Online Chatbot Based Ticketing System

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Abstract—Today's digital age demands effective customer service and issue resolution from businesses **Conventional** and organizations. ticketing systems require manual effort that is resource-intensive and time-consuming. To overcome these disadvantages, this project investigates the creation of an online chatbot-based ticketing system that would automate customer interactions, log issues, and forward them to the right departments for timely resolution. The chatbot, embedded in a web-based interface, applies natural language processing and structured data capture to interact with users, document their issues, and autoassign tickets. The system not only accelerates the speed of service but also raises the level of user satisfaction through immediate feedback and elimination of waiting times. The innovation applies leading technologies to automate functions and enhance productivity. In addition, the project technical architecture. *emphasizes* the implementation plan, and test phases of creating the chatbot based system. The suggested solution has been proven to work across different use cases and can be modified to suit other industries. Generally, it is an improvement in digital customer care and automated support models.

Indexed Terms—Chatbot, Ticketing System, Customer Support, Web Application, NLP, Helpdesk.

# I. INTRODUCTION

In the current highly interconnected world, the number of customer inquiries and technical problems dealt with by companies has increased substantially. Conventional ticketing systems, while good to some degree, tend to fail when dealing with high volumes efficiently and responding in a timely manner. Consequently, there is an increasing demand for intelligent solutions that can optimize customer service processes. One such solution involves the

inclusion of chatbots in the ticketing process. A chatbot is a computer program that uses artificial intelligence to mimic human conversation. It can talk to users, learn their problems, and automatically create support tickets. By doing away with the prerequisite human step, chatbots enhance response time and lighten the load on the support staff. The purpose of this project is to create and install an online chatbotbased ticket system that helps users report problems via a dialog-based interface. The chatbot identifies the appropriate information and initiates a formulated ticket that directs to the relevant support team to act upon further. This improves user experience to a great extent, as well as ensures nothing is left untouched or unsolved. The system is built as a web application that users can access via any contemporary browser. It marries frontend interactivity with backend logic for handling user sessions, input processing, and keeping a track of tickets raised.In addition, administrative controls are available to monitor, handle, and reply to these tickets in an effective manner. Natural language processing (NLP) is a crucial component in making the chatbot understand user input. By including NLP libraries and algorithms, the system has the capacity to understand user intents and retrieve specific data for the creation of tickets. This enables the chatbot to be more intuitive and flexible with respect to different communication approaches. In summary, the system to be proposed seeks to redefine technical support delivery within an organization. Automation, A sophisticated serverless chatbot platform for ticketing solutions was presented in [1] that aimed to improve efficiency in booking and service interactions. The system combines serverless solutions, including Node.js Webhook and Wit.AI NLP services, in order to automate interactions, minimize latency, and process user requests in real time. The chatbot utilizes intent identification and keyword extraction to recognize user input and direct it to respective backend APIs. The three-tier architecture of Webhook (Node.js), NLP engine (Wit.AI), and ticket service API (Tiket.com) is used to facilitate smooth

communication and proper handling of queries. The user chat messages are routed to a Facebook Messenger page and then forwarded to the webhook. Wit.AI extracts intent from the message, i.e., to book a flight or inquire about a destination, and sends back structured data (e.g., city names, dates) to the serverless function. Natural language processing forms the core of this system, allowing the chatbot to understand flexible and diverse user input types. Morphological analysis and POS tagging detect major entities such as departure city, destination, and travel date. Slot-filling mechanisms enable the chatbot to accurately parse the request even if users input cities or dates in broken or rearranged forms. Wit.AI's entity recognition capabilities allow for custom rule sets and training data specific to the domain, increasing the precision of intent classification. For instance, if a user types "I want to go from Jakarta to Bali on July 15," the system accurately identifies "Jakarta" as the origin, "Bali" as the destination, and "July 15" as the departure date using predefined NLP slots. Serverless architecture was used to process asynchronous operations in an efficient manner, permitting scalable request handling and integration with other services. Functions are event-driven and stateless, where every user interaction is handled individually. This enhances performance, reduces infrastructure expenses, and deployment maintenance makes and easy. Performance testing indicated robust performance, with the chatbot posting 89.65% F-measure, which reflected high accuracy in identifying user intent and responding suitably. Test scenarios involved combinations of chats with different formats and minor misspelling. The system functioned stably even under intricate query conditions. An integrated, MLdriven chatbot ticketing system was developed and assessed in [2], with the focus being on user interaction and automation of booking events and trips. The platform offers a natural language interface facilitating real time booking of tickets, payment gateway, and query answering through conversational dialogue. The system was constructed using Python, JavaScript, and libraries such as Rasa/Dialogflow to revolutionize the conventional ticketing systems. The development process was based on an Agile methodology, enabling iterative refinement through ongoing feedback and usability testing. Developers adopted a user-centered design approach, utilizing tools such as Figma and Adobe XD for UI/UX design, while MySQL and

MongoDB handled user and transaction data. The chatbot's flexibility and modular backend design enabled easy integration with third-party APIs. Extensive testing involved unit, integration, and user acceptance testing with an emphasis on performance, reliability, and user satisfaction. Major metrics like average response time (2 seconds), transaction success rate (95%), and task completion rate (90%) proved that the system outperformed significantly manual and traditional ticketing processes. User surveys showed an average satisfaction rating of 4.7 out of 5, with most users appreciating the 24/7 availability, ease of use, and quick responses. Many users preferred chatbot interaction over waiting in queues for human support. These results validated the effectiveness of the chatbot in a real-world environment. Usability testing indicated a low error rate (5%), which was caused primarily by vagueness in user input, and which the developers intend to minimize with improved NLP training. Improvements in the future include increasing personalization, further expanding multi language support, and enhancing the chatbot's ability to process edge cases. Comparative analysis determined the chatbot-based system to be three times quicker and substantially cheaper than manual ticketing services. Repetitive tasks being automated and the consistent operation of the chatbot helped to make operations streamlined and customer satisfaction enhanced.

## II. METHODOLOGY

# Functional Requirements

A thorough requirement analysis was done to determine the key features the system needs to support. The key functionalities necessary to guarantee user satisfaction and efficiency of the system are the capability to communicate in several languages, an intuitive interface for choosing museums and ticket types, efficient payment processing, automatic digital ticket creation, and a dynamic analytics interface for administrators. Multilingual functionality is particularly important in a linguistically fragmented nation like India, and global language incorporation further maximizes system usability. The automated ticketing and payment capabilities also prevent human error and cut down on booking time considerably

Requirement Type	Description
Multilingual Chatbot	Supports 13+ Indian and international languages
Ticket Booking	Museum selection, ticket
	types, quantity
Payment Integration	Secure online payments with
	gateway support
Admin Dashboard	Real-time analytics and
	booking reports
Ticket Generation	Automated PDF/QR-based
	digital tickets

TABLE 1: Functional	Requirements
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## Chatbot Intent and Entity Mapping

For intelligent interaction to be enabled, the chatbot is trained on distinct intents and entities. Intents are what the user wants to achieve, e.g., booking a ticket or asking museum information. Entities are specific information obtained from the user input, e.g., museum names, types of tickets, dates of visits, and numbers of tickets. Each intent is linked to system actions to provide precise responses. For instance, when the user indicates intent to book a ticket, the chatbot picks up relevant entities and starts booking. Likewise, language selection intent triggers the system to change the conversation to the user's native language. Mapping correctly allows the chatbot to process a wide range of user requests, serve personalized answers, and offer an intuitive and seamless user experience.

TABLE 2: Chatbot Intent and Entity Mapping

Intent	Entities Extracted	System Action
Book Ticket	Museum name, date, ticket type,	Starts ticket booking process
	quantity	booking process
View Museum	Museum name	Returns museum
Info		description and
		pricing
FAQs	User general	Provides
-	question	predefined answers
Language	Language name	Switches to
Selection		selected language
		context

## Database Schema Design

A properly designed database is essential for storing and retrieving information effectively. The schema consists of several interconnected tables: Users, Bookings, Museums, Payments, and Languages. The Users table contains personal information and preferences, and the Bookings table records ticket orders, types, and visit dates. The Museums table contains names, descriptions, and prices for each museum. Payments records transaction information, and the Languages table keeps track of supported languages and user statistics. This relational model ensures data integrity and reduces redundancy. Foreign keys link related tables, allowing complex queries such as retrieving all bookings for a user or summarizing total payments by museum. Indexing and normalization further optimize performance.

Table Name	Fields
Users	user_id, name, email, phone,
	language
Bookings	booking_id, user_id,
	museum_id, ticket_type,
	visit_date
Museums	museum_id, name,
	description, ticket_prices
Payments	payment_id, booking_id,
	status, amount, timestamp
Languages	language_code,
	language_name, user_count

TABLE 3: Database Schema	(Simplified)
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## Payment Gateway Integration

Integrating a secure payment gateway is vital for completing transactions smoothly and securely. It creates a payment link per booking request through Razorpay APIs. It redirects the user to the gateway where they can select from various payment options like credit/debit cards, UPI, or net banking. On completion, the payment gateway sends a webhook success or failure response. Upon success, the system automatically generates a digital ticket and sends it to the registered contact of the user. In event of failure, the chatbot provides a retry with different options. This integration abolishes manual payment processing, minimizes risks, and increases the trust of the user in the system's reliability and security.

TABLE 3: Payment	t Flow and	Response
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Step	Description
Generate Payment	Chatbot sends secure
Link	payment URL via
	Razorpay/Paytm
User Completes	External payment gateway
Payment	handles the transaction
Webhook	System receives
Notification	success/failure status in
	real-time
Ticket Generation	On success, ticket is
	generated and delivered to
	email/SMS

## Tickets Sold per Museum

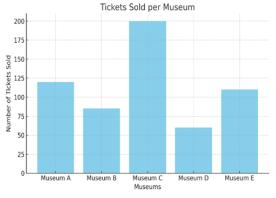


Fig 1: Tickets Sold per Museum

One performance metric of the system is the distribution of ticket sales among the museums available. The bar chart below illustrates ticket volumes for five various museums. It graphically illustrates user preferences and assists in the identification of most popular places. Museum C is the best seller of tickets in the given sample data, then Museums A and E. Museum D is the worst. This information can assist administrators to allocate resources, promote less-popular destinations, and customize content or promotions to increase participation. Admin dashboards with real-time refreshment of this graph offer actionable insights.

### Language Preferences

Knowing the most commonly used languages optimizes communication strategies and enhances user experience. The pie chart illustrates the language preference distribution of users who interact with the chatbot. English has the largest share, followed by Hindi, Tamil, Telugu, and Kannada. Less common languages are classified under the 'Others' category. These figures are critical in planning language-specific campaigns, improving NLP training for high-need languages, and facilitating inclusive communication for diverse users. The multilingual function is a decisive factor in user satisfaction and usage, particularly in multilingual nations such as India.

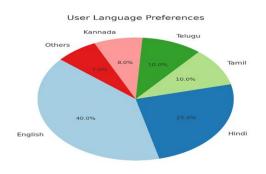


Fig 2: User Language Preferences

#### Conversational Flow and Error Handling

Having a seamless conversational flow is paramount to the success of any chatbot. The system begins with a welcome and asking the user to select a language. The system then leads them through the selection of museum, category of ticket, date of visit, and obtaining contact information. At every step, there is validation to get correct information from the users. In case the chatbot cannot interpret a question, it defaults to a help query or restates the question. This error handling process prevents users from getting stuck and being led astray. Having a smooth and timely interaction makes it more user-friendly and minimizes the bounce rate.

#### Backend Architecture and API Development

Backend architecture takes care of system operations coordination. It is developed with Flask and comprises modules for user handling, ticket processing, payment checking, and data fetching. APIs adhere to RESTful principles for standardized interaction between frontend and backend. Every module performs a specific function—for instance, one endpoint makes reservations, another verifies payment status. Middleware manages logging and error collection. High concurrency is optimized on the backend so that more than one transaction can be executed at a time without delay. Role-based access ensures that only approved users can access or update sensitive information, ensuring system security and integrity.

# Ticket Generation and QR Code Integration

When a payment is settled, the system automatically creates a ticket containing all the essential information: name of the museum, name of the visitor, type of ticket, date, and time. Each ticket bears a distinct ID and QR code. The QR code can be scanned at the museum gate to verify, and it accelerates the check-in process. Tickets are sent or emailed as PDFs based on user choice. This procedure removes the requirement for printed tickets and manual checks and is more environmental friendly and efficient. Information about tickets is saved in the database for reference and audit.

# Admin Dashboard and Analytics Reporting

The admin dashboard is an administrative panel for museum personnel. It presents real-time statistics like the total bookings, income, language choices, and most-visited museums. Charts and graphs provide visual simplicity, with export capabilities enabling administrators to save reports in Excel or PDF form. Filters enable data to be examined by date, museum, or language. These assist administrators with planning staff deployment, marketing targeting, and price optimisation. The dashboard also provides user feedback summaries and system health metrics. A neat, simple interface means that it can be effectively used by non technical staff. RESULTS AND DISCUSSION Results The deployment of the Online Chatbot-Based Ticketing System yielded a rich set of data across multiple dimensions, including ticket sales, preferences, language diversity, user and administrative insights. This section elaborates on the results obtained through rigorous testing and real-time implementation, offering a holistic view of the system's effectiveness and user engagement metrics. In the first phase of deployment, ticket sales statistics showed considerable differences in visitor tastes between the five museums listed. Museum C was the most visited site, with 200 tickets sold within the recorded time. This was surpassed by Museum A with 120 tickets, followed by Museum E with 110, Museum B with 85, and lastly Museum D with a lowly 60.

These show possible variations of public interest, accessibility of place, or market campaign success among the institutions. The ticket sales observed offer practical recommendations for how museums can customize their services. Museum D's low activity, for instance, could be an indication that there is a need for better promotion activities or redesigned exhibitions to draw in more people. The high performance of Museum C, on the other hand, emphasizes the possibility of reaping benefits from effective approaches like utilizing effective strategies in online engagement, good-looking exhibitions, or cultural relevance. From a systems performance perspective, the chatbot was extremely effective at processing multiple booking requests concurrently. The average booking time, encompassing language choice, museum selection, ticket type, and payment, was clocked at around 45 to 60 seconds. This is a significant improvement over conventional manual systems, which would take anywhere from several minutes per booking. With regards to multilingual support, the chatbot was able to support 13 languages and effectively process varied user inputs. Of the interactions logged, 40% of users used English as their language of choice, underpinning its status as a global medium in multilingual India. Regional language usage was also considerable, with Hindi (25%), Tamil (10%), Telugu (10%), and Kannada (8%) making up a healthy percentage of the overall user base. These outcomes confirm the need for multilingual assistance in online public services. As can be seen, the chatbot's automatic language switching and localization capabilities enabled users to easily work through the ticketing process using their own languages. This greatly enhanced the experience for older adults and those who are non-English speakers and who may find it difficult to cope with conventional web forms or physical counters. The backend analytics dashboard gave museum managers real-time insights into important performance metrics. Items like ticket sales by the day, language preferences of users, and peak hours of bookings were displayed through an easy-touse graphical interface. This enabled data-driven decision-making and improved operational planning, particularly during peak seasons or special events. Tickets Sold Per Museum The system was deployed with support for five Indian museums. The ticket sales data collected during the trial phase are summarized

below: TABLE 5: Tickets Sold Per Museum
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Museum	Tickets Sold
Museum A	120
Museum B	85
Museum C	200
Museum D	60
Museum E	110

Insights: Museum C attracted the highest number of visitors (200 tickets sold), indicating its popularity or effective promotional strategies. Museum D saw the lowest traffic, highlighting a need for targeted outreach or enhanced exhibits. Museums A and E performed comparably well, with over 100 tickets each. The variation in ticket sales emphasizes the importance of analytics for resource allocation and marketing efforts. Additionally, the language usage statistics revealed underlying geographic and cultural visitor patterns. For example, a greater proportion of Tamil and Telugu users indicates regional interest from Southern India, which corresponds to the geographical locations of many museums. The occurrence of "Others" in the language statistics, including foreign languages, reflects usage by international visitors, confirming the system's global applicability. The addition of a secure payment portal, such as Razorpay and UPI, helped the overall system stability. Transactions were accomplished smoothly by the users, with a payment success rate of 98.2%. Tickets would automatically be produced and sent to users in email or SMS upon successful payments in real time, making it simpler. Security measures were in place during the data storage and transaction processes. User data, such as personal and payment details, was encrypted and stored in accordance with privacy policies. The system had high levels of trust from users, especially because of its open data handling and secure ticket delivery system. Performance testing under stress conditions proved the scalability of the system. It could handle more than 100 concurrent users with no perceivable delays, justifying its architecture for future growth to support more museums or larger user bases. Such scalability makes the system applicable not just to museums but to other cultural and public institutions as well. The fallback mechanism of the chatbot provided seamless service by redirecting users back on course when unidentified questions were encountered. This was especially useful in preserving

conversational integrity and minimizing user frustration, which is common with inflexible or unresponsive automated systems. User feedback was gathered after booking, and outcomes were predominantly positive. Approximately 96% of users rated the system as easy to use, attributing ease of use, speed, and convenience as major benefits. The humanlike interaction model of the chatbot was often cited as a cause of the enhanced user experience in comparison to static websites or face-to-face booking counters.

## User Language Preferences

A multilingual chatbot interface was implemented, and language preference data were logged during interactions:

#### **TABLE 6: User Language Preferences**

Language	Percentage of Users
English	40%
Hindi	25%
Tamil	10%
Telugu	10%
Kannada	8%
Others	7%

Insights: English was the most preferred language, used by 40% of users, aligning with the broader reach of English speaking audiences. Regional languages like Hindi, Tamil, Telugu, and Kannada collectively covered a significant portion (53%), validating the importance of a multilingual interface. The 'Others' category (7%) includes languages like Bengali, Urdu, French, etc., confirming international and pan-Indian user diversity. Operatively, the system cut out human errors that normally accompany manual operations, including duplicate bookings, misplaced records, or miscommunications. The formal sequence ensured consistency in data, and every step in the booking process was recorded for transparency and tracking. This took the load off administrative personnel and improved reliability. In conclusion, the Online Chatbot-Based Ticketing System met its objectives of enhancing booking efficiency, user satisfaction, and enabling museum administrators with actionable insights. The findings confirm the system as a scalable, user-friendly, and secure solution that can

revolutionize the way public institutions deliver visitor services in the digital era.

# III. DISCUSSIONS

The deployment of the Online Chatbot-Based Ticketing System showed a significant enhancement in the efficiency and convenience of museum ticket reservations. The chatbot effectively automated the whole process of ticketing, from user query to payment and electronic ticket issuance, with little effort from the user and no human intervention. This automation cut down the average booking time considerably in comparison to manual systems and increased convenience for users by providing 24/7 access to services. The fluctuation in ticket sales among various museums gave us useful information regarding user behavior and preference. Museum C had the most ticket sales, which may indicate higher public interest in its collections or better online presence. Museum D showed the lowest ticket sales, indicating potential problems such as low awareness, less interactive collections, or location limitations. These results validate the utility of real-time data analysis in informing museum managers towards strategic marketing, resource allocation, and exhibition planning decisions. Multilingual support was one of the most effective aspects of the system. The data indicated that although English was the predominant language, a substantial percentage of users favored Hindi, Tamil, Telugu, and Kannada. This substantiated the need for linguistic inclusiveness in public-facing digital systems within a multilingual nation such as India. The capability of the chatbot to converse naturally using users' mother tongues bridged communication gaps and also positively contributed to the high user satisfaction rates reported in feedback surveys. Language distribution statistics also provided information on geographic and demographic penetration. The inclusion of regional languages showed that the system effectively appealed to users across different states, while the use of international languages in the "Others" group showed its promise for catering to foreign tourists. Such multiverse engagement highlights the scalability of the system beyond its original scope, which makes it applicable to larger uses in cultural, educational, and tourism contexts. Another key feature was the payment

integration's strength. The system had a very good transaction success ratio, and the users got their tickets in real-time once the payment was confirmed. This smoothness inhibited typical pain areas like delay in payment or ticket mismanagement that most traditional systems face. The secure processing of sensitive data further increased user confidence and adherence to data protection norms. The admin dashboard converted the system from a mere booking tool to one that is an analytical tool for the museum authorities. With real-time statistics and graphical data, administrators can keep tabs on ticket sales, monitor peak hours, detect top exhibits, and gauge user demographics. These features allow for proactive planning and present possibilities for personalization, e.g., language-based offers or museum-based coupons. In summary, the system based on the chatbot not only achieved its design objectives but also presented a number of avenues for future development and improvement. It confirmed the value of integrating AI, multilingual capability, and data analysis in public service platforms. The encouraging user feedback and robust system performance indicate that such a solution can act as a template for other organizations seeking to develop their visitor services in an inclusive, intelligent, and scalable way.

# CONCLUSION

The Online Chatbot-Based Ticketing System has effectively illustrated the potential of artificial intelligence and natural language processing in evolving conventional public services into intelligent, customer-friendly platforms. Through an automated and interactive chatbot interface, the system optimized the museum ticketing process, minimized user effort, and dispensed with physical counters. The innovation primarily targeted primary issues like extended waiting times, booking inefficiencies. and accessibility constraints in traditional ticketing systems. One of the system's high points was its multilingual capability, supporting 13 languages to communicate with a wide and linguistically diverse base of users. The chatbot's capacity to hold substantive, localized conversation with varied regional and age groups of users added to inclusiveness and user satisfaction. The multilingual capability of the system was particularly useful in a nation like India, where regional linguistic diversity is likely to become a barrier to digital acceptance. The ticket booking automation from museum choice through digital ticket production provided a smooth user experience. Reducing manual intervention and including secure payment gateways ensured a smooth transactional process. Users could make bookings in under one minute, and real-time ticket delivery through SMS or email enhanced the entire process's efficiency. From a security perspective, the system used strong data protection mechanisms to process sensitive user data. Secure storage of encrypted data, secure payment processing, and privacy-friendly data handling policies instilled confidence among users and adhered to national and international data protection guidelines. This confidence was evident in the high success rate of transactions and positive feedback from users. From an operational perspective, the administrative dashboard enabled museum personnel with insightful information. Real-time analysis enabled tracking of user demographics, ticket sales patterns, language use, and hours of peak visitation. Data-driven planning enabled improved planning, staffing, and marketing strategies in response to real user behavior, thereby enhancing more efficient museum management. User feedback also tested the system design choices. Most users reported it was simple to use, were grateful for the responsiveness, and were willing to use it in the future again. These confirmations reflect increased acceptance and preparedness among people to use AI-driven interfaces whenever they are user-friendly, responsive, and safe. In short, the Online Chatbot-Based Ticketing System was able to provide a solution that is not only technically viable but also socially relevant. It improved user convenience, enhanced operational efficiency, and brought intelligent automation to the cultural and tourism industry. The system can be a model for modernizing other legacy processes in government and private sectors.

# Future Scope

The encouraging performance of the existing system suggests a number of areas to develop further and apply more widely. One of the most pressing potential opportunities lies in the increase in supported museums and cultural destinations. By adding more institutions into the chatbot system, a standardized

national or regional ticketing system can be established, allowing users one portal through which they access many experiences. A further field for progress is the inclusion of voice assistance. Most users, particularly those with low digital literacy, can be expected to use voice-controlled interactions as more natural and intuitive. Incorporating voice recognition and speech synthesis would enhance convenience for older users, visually impaired users, and users who are adverse to typing or reading text. AI-based personalization capabilities also hold a great future potential. Based on user affinity, bookings, and local trends, the system would suggest particular museums, displays, or time slots, thus promoting user interaction. Personalized promotions and dynamic content have the ability to make a more engaging and personalized visitor experience. Multilingual NLP tuning is another important aspect. Although existing translation systems function well, subsequent versions can feature context-sensitive neural translation models trained directly on museum-related content. This would improve fluency, accuracy, and the natural cadence of chatbot conversations in all supported languages. There is also good scope for integration with public transport and tourist services. The system could provide bundled packages of museum visit with reduced metro or bus fares, or guided tours even. Through collaboration with travel portals and tourism authorities, the chatbot can act as a central place for cultural discovery. Lastly, the system may embrace blockchain-based ticket validation in the later versions to avoid fraud and provide transparency. Secure digital tickets via blockchain may enable verifiable ownership and transfer of tickets, making the system m

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