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# Bihar Sair – Yatra to Blissful Bihar

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**ABSTRACT:** The Bihar Tourism Website aims to automate the manual system using computerized equipment and software. It stores valuable data securely for easy access and manipulation. The project, titled "Bihar सैर- Yatra to Blissful Bihar," invites travellers to explore Bihar's rich culture, history, and spirituality. From the sacred Ganges to ancient ruins and delicious cuisine, Bihar promises a memorable journey. The website focuses on enhancing performance and providing excellent service to clients.

**KEYWORDS:** Data flow Diagram, Integrated Development Environment, Random Access Memory, Node package manager, Entity Relationship Diagram

## I. INTRODUCTION

Welcome to "Bihar सैर- Yatra to Blissful Bihar" an exciting project to explore Bihar, a special place in India. The word "Sair" means travel in Maithili, a language spoken in Bihar. This project invites you to go on a journey through Bihar's beautiful landscapes and rich history. Imagine yourself sailing on the sacred Ganges River, listening to stories from long ago. It's a peaceful feeling, like time doesn't matter. Bihar has a lot of history to discover, like the ruins of Nalanda, a famous place of learning where scholars from around the world came to study. But Bihar is more than just history. In Bodh Gaya, there's a special feeling in the air, drawing people from all over the world. This is where the Buddha is said to have found enlightenment under a tree called the Bodhi Tree. The amazing buildings here show the devotion and skill of people from long ago.

When you travel through Bihar, get ready to be amazed not just by its history, but also by its friendly people. You'll experience Bihar's famous hospitality as locals welcome you warmly and share their stories with you. Our project is more than just a regular trip. It's a special adventure, made to help you really feel Bihar's spirit. You'll taste delicious Bihari food and take part in local traditions. Every moment will be a celebration of this lively and colourful place.

## II. RELATED WORK

In the context of developing a React app named Bihar-Sair, our group of five students embarked on a collaborative journey to design an innovative platform for exploring the cultural and historical richness of Bihar. Our application comprises five interconnected modules, each tailored to enhance the user experience. The Home Page serves as the gateway, providing comprehensive details and descriptions of the app's functionalities. The About Page offers essential contact information and addresses, facilitating seamless communication with our users. Our Tours Page showcases diverse destinations within Bihar, enticing users with vivid imagery and enticing descriptions. One of our standout features is the Customized Package module, where users can tailor their travel experiences by selecting options for food, transportation, accommodations, and guides. The Admin Login Page grants administrators access to a comprehensive dashboard containing user data and tour bookings, ensuring efficient management of the platform. For end-users, we've integrated login and registration functionalities, empowering them to book tours effortlessly. Additionally, our Galleries feature allows users to share their travel memories through photos, while our Reviews section provides a platform for sharing feedback and testimonials. Our collaborative effort in developing Bihar-Sair underscores our commitment to creating immersive and user-centric travel experiences.

### III. PROPOSED MODEL

The Meaning Of Agile Is Swift Or Versatile. “**Agile Process Model**” Refers To A Software Development Approach Based On Iterative Development. Agile Methods Break Tasks Into Smaller Iterations, Or Parts Do Not Directly Involve Long Term Planning. The Project Scope And Requirements Are Laid Down At The Beginning Of The Development Process. Plans Regarding The Number Of Iterations, The Duration And The Scope Of Each Iteration Are Clearly Defined In Advance. Each Iteration Is Considered As A Short Time "Frame" In The Agile Process Model, Which Typically Lasts From One To Four Weeks. The Division Of The Entire Project Into Smaller Parts Helps To Minimize The Project Risk And To Reduce The Overall Project Delivery Time Requirements. Each Iteration Involves A Team Working Through A Full Software Development Life Cycle Including Planning, Requirements Analysis, Design, Coding, And Testing Before A Working Product Is Demonstrated To The Client. Phases Of Agile Model:

Following are the phases in the Agile model are as follows:

1. Requirements gathering
2. Design the requirements.
3. Construction/ iteration
4. Testing/ Quality assurance
5. Deployment
6. Feedback

- 1. Requirements gathering:** In this phase, you must define the requirements. You should explain business opportunities and plan the time and effort needed to build the project. Based on this information, you can evaluate technical and economic feasibility.
- 2. Design the requirements:** When you have identified the project, work with stakeholders to define requirements. You can use the user flow diagram or the high-level UML diagram to show the work of new features and show how it will apply to your existing system.
- 3. Construction/ iteration:** When the team defines the requirements, the work begins. Designers and developers start working on their project, which aims to deploy a working product. The product will undergo various stages of improvement, so it includes simple, minimal functionality.
- 4. Testing:** In this phase, the Quality Assurance team examines the product's performance and looks for the bug.
- 5. Deployment:** In this phase, the team issues a product for the user's work environment.
- 6. Feedback:** After releasing the product, the last step is feedback. In this, the team receives feedback about the product and works through the feedback.

### IV. PSEUDO CODE

1. Initialize the system
  - Initialize data structures and variables
  - Load existing tour data from database or file
2. User Interaction
  - Display main menu options to the user - Prompt the user to select an option:
  - View available tours
  - Book a tour
  - View booked tours

- Cancel a booked tour
- Exit
- 3. View Available Tours
  - Retrieve and display a list of available tours
  - Display details such as tour name, description, price, and availability
  - Provide options for sorting and filtering tours
  - Allow the user to select a tour for booking
- 4. Book a Tour
  - Prompt the user to select a tour from the available list
  - Check tour availability and gather booking details from the user
  - Confirm booking and update tour availability
  - Generate a booking reference or ID
  - Store booking details in the database or file
- 5. View Booked Tours
  - Retrieve and display a list of tours booked by the user
  - Display booking details such as tour name, date, and status - Allow the user to view booking details and status
- 6. Cancel a Booked Tour
  - Retrieve and display a list of booked tours by the user
  - Prompt the user to select a tour for cancellation
  - Confirm cancellation and update tour availability
  - Remove booking details from the database or file
- 7. Exit
  - Save any changes to data and close the system

## V. LITERATURE REFERENCES

MakeMyTrip: review of literature is essential because it identifies the general areas of concern that may give pointers to specific matters worth studying. Areas of concentrated, current interest and possibly, areas of relative neglect will become apparent. The review will also help the research scholar to gain an understanding of relationships between the subject being considered and other subject areas. The overall result is that the researcher will become thoroughly knowledgeable about the topic, and they will be ready to do research that advances knowledge on that topic. Croix Says Digital technology has changed the way we connect with, creating a 24/7 relationship in and out of stay, says Stephan Croix, vice-president of marketing at Starwood Hotels and Resorts. It is also transforming every phase of hospitality – from finding a hotel, to checking in, to unlocking your door and personalizing your stay. As travel is inherently mobile, traveller expects to use their mobile devices to enrich their travel experiences. Anshuman Bapna (chief product officer Make My Trip) informed NDTV as Make My Trip is one of the oldest and most well-known e-commerce companies in India. Listed on the NASDAQ, MMT can't really be called a start-up anymore. It has been open to a lot of experimentation within limits.”

According to Sanjay Kharb, Assistant Vice President- Technical Operations, and MakeMyTrip (India) Pvt Ltd: “There was difficulty in managing the traffic effectively. Heavy loads on the SSL server were seen, leading to High drop-off rates. Some users were visiting the site in the morning and come back again in the afternoon to search for the deals. It was required to track the cookies and users to determine if they should offer better deals or give the users something on their return visit in order to convert the visit into transactions”. He decided to consider F5Big IP Local Traffic Manager (for its performance, versatility, and flexibility) to deliver the solution. The web traffic problem was solved by switching to F5 solution which enabled the company to handle its increase traffic, provide a better user experience while increasing Revenue.

Yatra: Yatra is an Indian online travel agency and a travel search engine based in Gurgaon, Haryana, founded by Dhruv Shring, Manish Amin, and Sabina Chopra in August 2006. It caters services to people like travel related information,

pricing, availability, and reservations for airlines, hotels, railways, and buses. It also provides car rental services across 5000 large cities and small rural areas throughout India. Yatra provides multi-language customer services to its business and leisure traveller to provide cost effective booking 24 hours and 365 days a year. It also provides hotel booking facility in over 2500 domestic hotels across 250 destinations in India. Besides, it has international tie-ups with major consolidators for over 90,000 hotels across the world. Yatra.com has been awarded the ‘Best Online Travel Agency’ award for the year 2008 by Galileo Express Travel World.

Clear trip: Clear Trip is an online traveling company, headquartered in Mumbai and was founded by Stuart Creighton and Hrush Bhatt in 2006. It provides online booking service for flights and train tickets, hotel reservations and domestic and international holiday packages. It also provides a great travelling guide for all famous cities and hill stations across India in its Activities segment. Clear Trip claims to earn 15-20% margin from its hotels and activities businesses and 5-6% margin from the flights and railway booking. It holds 10% market share of total online booking market. It provides several social media platforms to collect feedback and improve products, provide troubleshooting, offer customer service. Clear Trip has been awarded ‘Excellence in Travel Blogging - Company Operated Blog’ by SATTE Awards.

IRCTC: Roday (2011) stated that passengers travelling by trains depend on the railway authorities for providing meals, snacks, and beverages. He said that there are two styles of catering arrangement in railways – on-board and off-board catering. In reference to India, Roday said that IRCTC is working towards providing high quality meals and beverages to travellers and maintaining food hygiene & sanitation in trains and on platforms. He further stated that licensed vendors, 24 hours multi-cuisine food plazas at important railway stations, on-board catering units on trains has continuously working for offering better standards to commuters.

VI. SIMULATION RESULTS

In the simulated experience with Bihar Sair Yatra tour booking system, users are greeted with a user-friendly interface showcasing diverse tour options, each promising a unique exploration of Bihar's cultural and natural wonders. After selecting the "Blissful Bihar" tour, users seamlessly navigate through the intuitive booking process to secure their spot on the excursion. Throughout the journey, the system ensures a seamless travel experience with timely reminders, personalized services, and expert guidance, enriching the adventure with immersive cultural experiences and comfortable logistics. As users return home with cherished memories and newfound appreciation for Bihar's vibrant heritage, the Bihar Sair Yatra system emerges as a facilitator of transformative travel experiences and a gateway to blissful Bihar exploration.

Fig.1. Ad Hoc Network of 5 Nodes

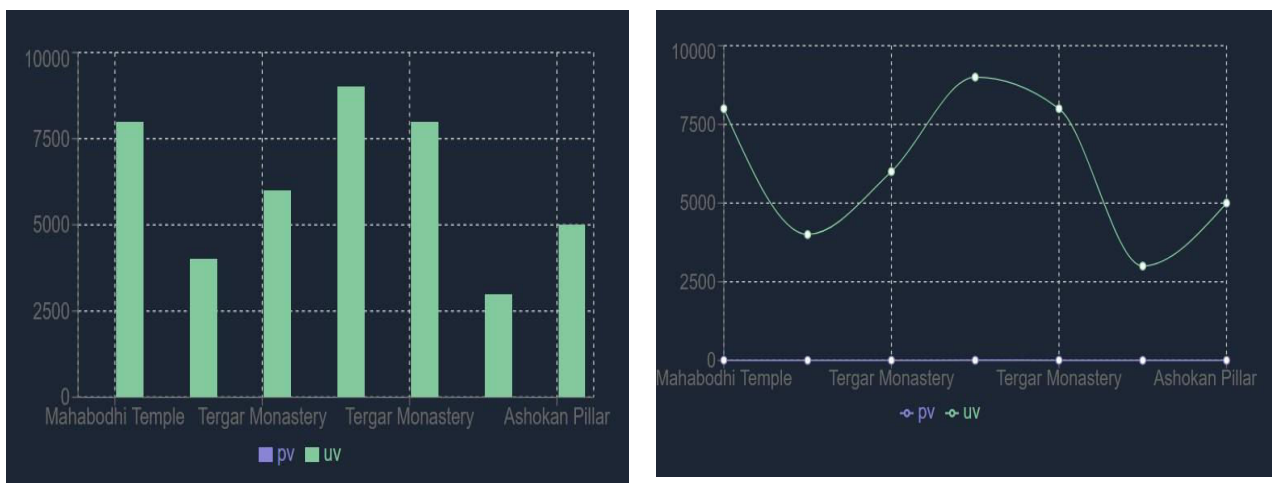
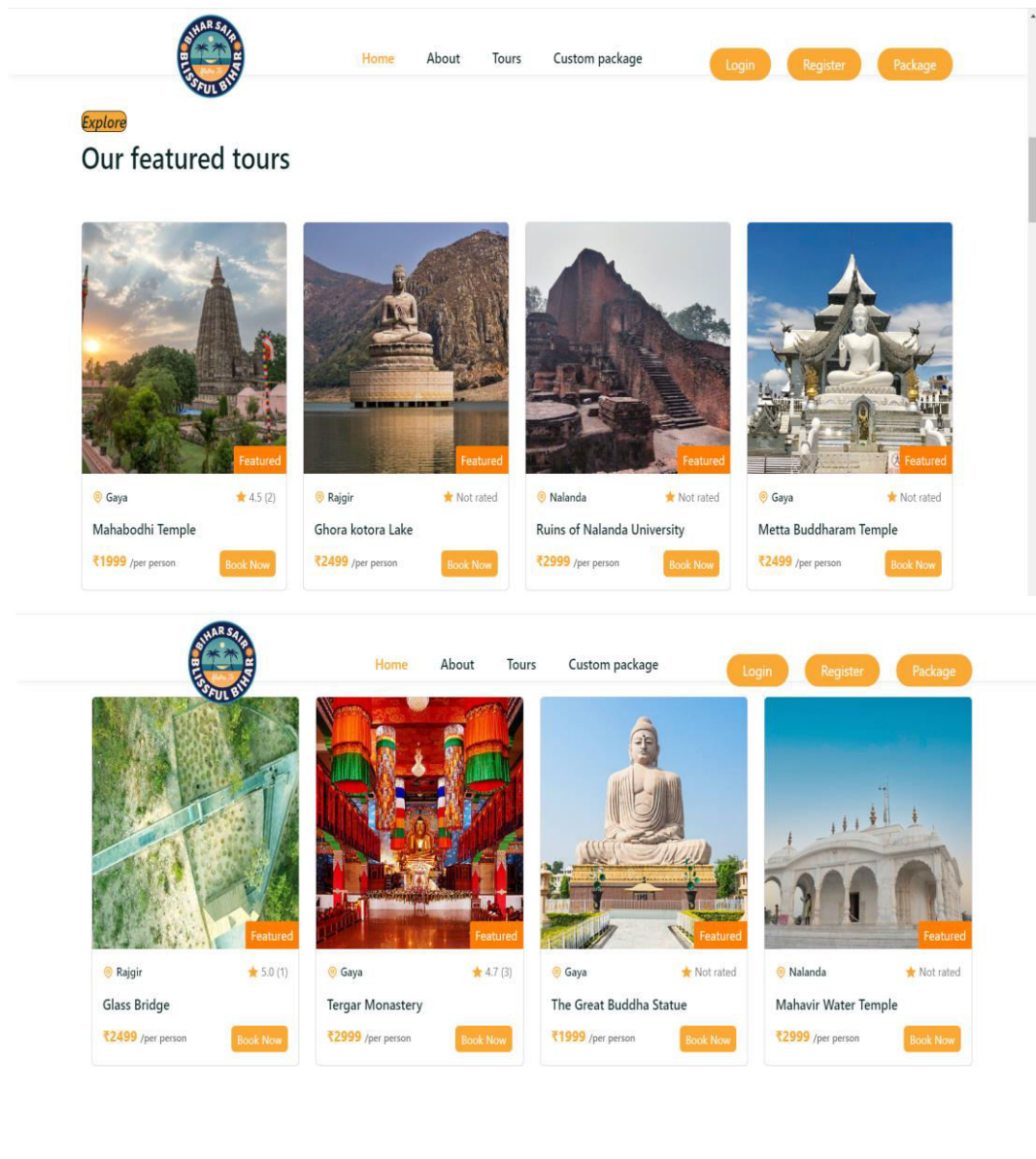


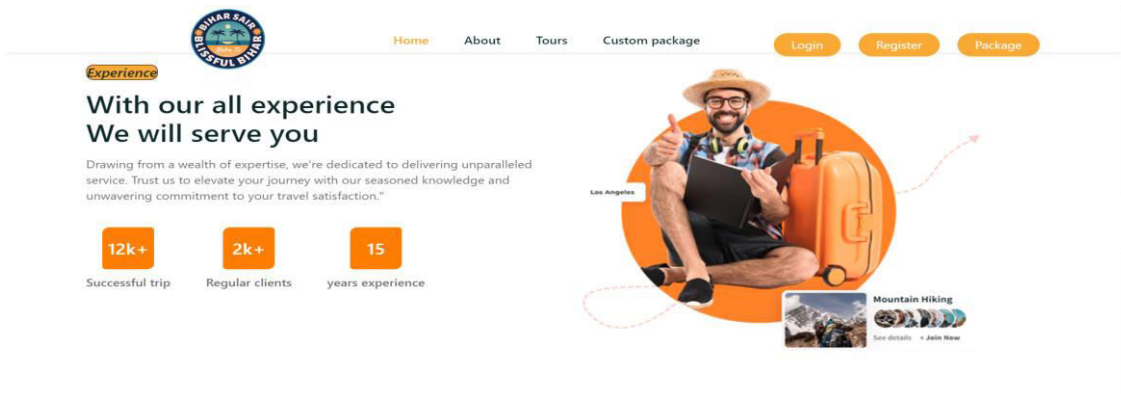
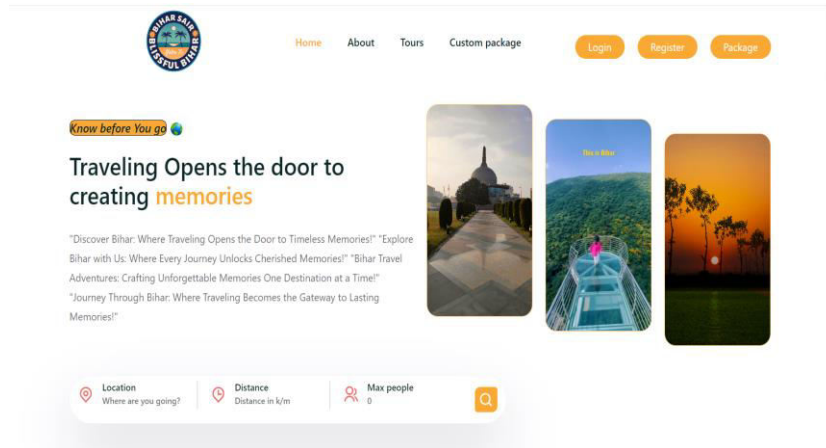
Fig.1.1 – x-axis shows tours visited and y-axis shows total money paid.



SCREENSHOTS

Booking onpanel. Off-line reports of Travel, Agent, and Facility cannot be generated due to batch.mode execution.





## VII. CONCLUSION AND FUTURE WORK

Tourism is currently recognized as a global industry that is growing at a high rate than any other industry. Access to relevant and accurate information is at the heart of tourism. Here, the proposed project on Bihar **सैर- Yatra to Blissful Bihar** tries to bridge the gap by noting what a tourist perceives as relevant. Hence, the aim of this project entails the design and implementation of a platform that will assist tourists in gaining access to travel to various tourist locations. The project also helped to provide knowledge about the latest technology used in developing web-enabled applications and client-server technology that will be in great demand in the future. It is worth mentioning that this project work is open for further enhancement, with the expectation that it becomes more robust and better enhanced, covering every single tourist site. For a modified system, the user needs to just login into the application and can find the routes, costs, hotels, adventure sports, transportation, and book immediately and complete the booking process for a successful transaction. In the aspect of tourism, the Internet and web technologies have made more readily available information on tourist locations, accommodations, transportation, shopping, food, festivals, and other attractions, thus improving the whole tourism experience. Remaining Areas working on the transactions are executed in off-line mode, hence online data for Agent, Hotel, and modification is not possible. Working on booking panel. Off-line reports of Travel, Agent, and Facility cannot be generated due to batch mode execution.

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