WEB BASED SECURE ONLINE CAB BOOKING SYSTEM

CHADA SURESH,

Assistance Professor,

Department of Computer Science and Engineering,

CHINTALAKUMAR SHIVA,

Assistance Professor,

Department of Electronics and Communications Engineering,

Siddhartha Institute of Technology and Sciences,

Narapally, Hyderabad, Telangana – 500 088.

ABSTRACT

The Smart Transportation Arranger is a software that assists you in making travel arrangements. The Online Cab Booking project entails the creation of an online system that allows customers to book cabs at their leisure. The current system is inefficient and time-consuming. With a poor and declining average return, it's also inefficient. We place a great priority on customer satisfaction, therefore we provide a choice of options for clients to book a taxi by entering information such as the day and time of their trip, the origin, pick-up point, destination, and drop-off location. Cabs are available for hiring through an online booking system. The firm must be registered and meet all of the transportation department's criteria and security standards. The Online Cab Booking System is a web-based platform that enables your clients to book taxis and executive taxis from the convenience of their own home or workplace. The platform should have an administrative interface via which the taxi business can control the content as well as access all reservations and customer data.

I. INTRODUCTION

Cab Booking/Hiring is a method that may be utilised for a price for a limited length of time. People who do not have access to their own personal automobile or do not own one at all can travel around by renting a car. Individuals who wish to hire or rent an automobile must first contact the desired vehicle's cab rental business. This may be done over the internet. This individual must now provide certain information, such as the rental dates and automobile type. Following the completion of these data, the person renting the automobile must produce a valid identification card.

The majority of enterprises in the sector earn based on the sort of automobiles they sell. Customers can pick between economic, compact, small premium, premium, and luxury cars, and they are free to do so according on their budget and the availability of such cars at the time of reservation.

Chandigarh Cab Service is the first site in india, which provides reliable online(web based) cab booking facility to the people in various cities of india., free of cost.

II. RELATED WORKS

Authors investigate whether generalisation and suppression of quasi-identifiers are superior to simple sanitization, which merely isolates quasi-identifiers from sensitive properties. Previous research has shown that kanonymous databases can be valuable for data mining, although privacy is not guaranteed by k-anonymization. We, on the other hand, quantify the privacy-utility tradeoff as the accuracy of data-mining algorithms run on the same cleaned datasets.

We utilise the same datasets from the UCI machine learning repository for our experimental assessment as we used for past generalisation and suppression studies**.**

We first present a generic framework for reasoning about privacy in the face of external knowledge in this study. We present a unique multidimensional technique to measuring an adversary's external knowledge inside this framework. In the presence of varied types and volumes of external knowledge, this strategy allows the publishing company to analyse privacy issues and enforce privacy rules. A multidimensional privacy criteria that is more intuitive and flexible than earlier approaches to representing background knowledge is one of our primary technological advances.

Chandigarh Cab Service is the first website in India to offer a free online (web-based) cab booking service to consumers in various locations throughout the country.

III.PROPOSED SYSTEM

Drawback of existing system:

1. In the current system, customers are unable to rent a car online.

2. A person from another nation is likely to face several difficulties.

3. Customers lack information about the region or ideal location, posing a travel issue.

Proposed system

By signing on to the planned Online Cab Booking project website, consumers would be able to order a cab according to their needs. It allows customers to book taxis online, modify their reservations, and cancel their reservations at any moment. Users will be alerted of the driver's location and phone number, allowing them to connect with him.

The consumer is informed about their bookings, driver information, and booking progress on a regular basis.In the feedback form, the user can also submit suggestions or questions.
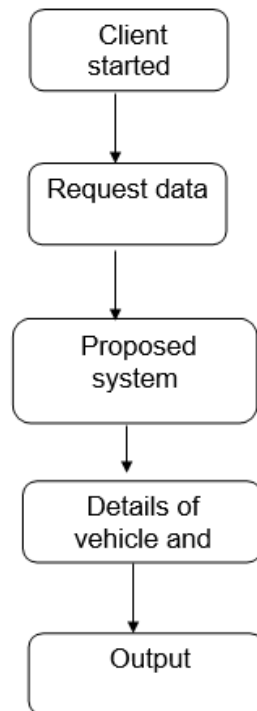
Figure 1: Flowchart of proposed work

ADVANTAGES

- It is user-friendly since clients may book taxis from the convenience of their homes or businesses.
- Increasing the system's efficiency in providing quality services to its customers.
- It's extremely safe because only a logged-in user may book a cab, preventing attackers from seeing their personal information.

In the new system, users may acquire the services they need.

- The user may rent a car and view driver information online.
- As a self-driver, the user can obtain a vehicle.
- For automobile reservations, the user can receive an email confirmation.

The following things are the focus of functional testing:

Valid Input : the approved kinds of valid input must be established.

Invalid Input : classifications of invalid input must be detected and discarded.

Functions: The functions that have been identified must be used.

Output: The application outputs that have been identified must be exercised.

Systems/Procedures: Interfacing systems and processes must be activated.

Functional tests are organised and prepared around requirements, important functions, or unique test cases. Furthermore, thorough coverage of Business process flows, data fields, established procedures, and subsequent processes must be considered for testing. Additional tests are identified and the effective value of present tests is assessed before functional testing is completed.

IV. RESULT AND DISCUSSION

System Test

System testing guarantees that the complete integrated software system complies with the specifications. It checks a setup to guarantee that the results are known and predictable. The configuration oriented system integration test is a form of system testing. Process descriptions and flows are used in system testing, with an emphasis on pre-driven process connections and integration points.

White Box Testing

White Box Testing is a type of software testing in which the software tester is familiar with the software's inner workings, structure, and language, or at the very least its purpose. It serves a function. It's used to evaluate regions that aren't accessible with a black box level.

Integration tests are used to see if two or more software components can work together as a single application. Testing is event-driven, with a focus on the fundamental consequence of screens or fields. Integration tests prove that, while the components were individually satisfying, the combination of components is right and consistent, as demonstrated by successful unit testing. Integration testing is a type of testing that focuses on uncovering issues that occur from the integration of components.

Functional tests demonstrate that the functions being tested are available in accordance with the business and technical requirements, system documentation, and user manuals.

User Acceptance Testing Acceptance testing is an important part of any project that requires active participation from the end user. It also ensures that the system meets the functional requirements.

Results of the test:

All of the test situations listed above were successful. There were no flaws discovered.

V. CONCLUSION

Customers can use an online booking system to rent cabs. Customers may use this online system to browse available taxis, view profiles, and book cabs. Taxi booking is a typical kind of transportation that is offered by a number of different transportation firms in a particular city. The bulk of people rely on taxi services for their daily transportation needs. The company

must be registered and fulfil all of the transportation department's requirements and security requirements. This paper demonstrates an effective taxi booking system. This assignment covered a wide variety of topics, from business concepts to computer science, and required the completion of several courses in order to reach the deadline.

REFERENCES

1. B.C.M. Fung, K. Wang, and P.S. Yu, "Top-Down Specialization for Information and Privacy Preservation," Proc. Int'l Conf. Data Eng. (ICDE), pp. 205-216, 2005.

2. G. Ghinita, Y. Tao, and P. Kalnis, "On the Anonymization of Sparse High-Dimensional Data," Proc. IEEE 24th Int'l Conf. Data Eng. (ICDE), pp. 715-724, 2008.

3. Y. He and J. Naughton, "Anonymization of Set-Valued Data via Top-Down, Local Generalization," Proc. Int'l Conf. Very Large Data Bases (VLDB), pp. 934-945, 2009.

4. Inan, M. Kantarcioglu, and E. Bertino, "Using Anonymized Data for Classification," Proc. IEEE 25th Int'l Conf. Data Eng. (ICDE), pp. 429-440, 2009.

5. L. Kaufman and P. Rousueeuw, "Finding Groups in Data: An Introduction to Cluster Analysis," John Wiley & Sons, 1990.

6. D. Kifer and J. Gehrke, "Injecting Utility into Anonymized Data Sets," Proc. ACM SIGMOD Int'l Conf. Management of Data (SIGMOD), pp. 217-228, 2006.

7. N. Koudas, D. Srivastava, T. Yu, and Q. Zhang, "Aggregate Query Answering on Anonymized Tables," Proc. IEEE 23rd Int'l Conf. Data Eng. (ICDE), pp. 116-125, 2007.

8. K. LeFevre, D. DeWitt, and R. Ramakrishnan, "Incognito: Efficient Full-Domain k-Anonymity," Proc. ACM SIGMOD Int'l Conf. Management of Data (SIGMOD), pp. 49-60, 2005.

9. K. LeFevre, D. DeWitt, and R. Ramakrishnan, "Mondrian Multidimensional k-Anonymity," Proc. Int'l Conf. Data Eng. (ICDE), p. 25, 2006.

10. K. LeFevre, D. DeWitt, and R. Ramakrishnan, "Workload-Aware Anonymization," Proc. ACM SIGKDD Int'l Conf. Knowledge Discovery and Data Mining (KDD), pp. 277-286, 2006.