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Repair Spot

Saranya T, Sneha T, Vimitha U*

Prathyusha Engineering College, Thiruvallur , India

A B S T R A C T

This paper "Repair Spot" is a web-based application. In today's life, so many people are facing several problems by malfunction of vehicles in the middle of their travel, hence this web application will be helpful for those people and also we can solve so many minor problems by bring mechanics to the home. Repair spot is a software platform designed to streamline and simplify the repair process for electronic devices. The platform provides a user-friendly interface for customers to create repair requests, track repair progress, and receive updates on repair status. Repair technicians can use the platform to manage repair tasks, access repair history, and communicate with customers. Repair spot also features automated inventory management, allowing technicians to easily track parts and supplies, and automatically generate purchase orders when stock levels run low. The platform also provides analytics and reporting tools to help businesses track performance metrics such as repair turnaround time, customer satisfaction, and revenue. Overall, Repair spot is a comprehensive solution for electronics repair businesses seeking to improve efficiency, customer service, and profitability.

Keywords: Repair on spot, repair request, feedback, notification alert.

1. INTRODUCTION :

Many people facing problem by repair of vehicles before or during or middle of their journey. So this we have to create a bridge between users or vehicle owners and vehicle mechanic to provide essential service to users at a time. Repair Spot is an website that had both user and mechanics portal. First they need to register and access their Dashboard by login authentication. When an user put a repair request than can reflect in current request of all registered mechanics dashboard. If a particular mechanic approve this request, the approved mechanic contact info is shown in approved requests of user dashboard .After mechanic completed the repair fault, user have to check completed button and fill the feedback and submit the feedback. Repair Spot is a software platform designed for managing repairs and service businesses. It provides features such as appointment scheduling, job tracking, inventory management, customer communication, invoicing, and reporting to streamline repair shop operations. Repair Spot is used by a variety of businesses, including cellphone repair shops, computer repair shops, and appliance repair services. It aims to increase efficiency, improve customer experience, and ultimately, help repair shops grow their businesses.

2.LITERATURE REVIEW :

literature review in the context of Repair Spot would involve gathering and analyzing existing research, articles, and publications related to the software platform and its impact on repair and service businesses. The review could focus on topics such as the effectiveness of Repair Spot in improving repair shop operations, the impact of the software on customer satisfaction and loyalty, and the benefits of using Repair Spot compared to other similar software solutions. The literature review process would involve conducting a comprehensive search of relevant academic journals, industry publications, and online resources. After gathering the relevant information, the data would be analyzed, synthesized, and presented in a clear and concise manner. Overall, a literature review in Repair Spot would provide valuable insights into the software's strengths and weaknesses, its impact on the repair and service industry, and potential areas for future research and development. An integrated approach for maintenance and repair scheduling using simulation and optimization" by S. Jafarian and H. Mokhtari. This paper proposes a simulationbased approach to optimize maintenance and repair scheduling for complex systems Maintenance optimization for complex systems. "Maintenance optimization for complex systems: A review" by S.Bausch and M. Heitz. This article provides a comprehensive review of maintenance optimization methods and techniques. "A literature review of maintenance optimization models and techniques for railway systems" by K. Lee et al. This paper focuses on maintenance optimization in railway systems, which may be relevant to the Repair Spot project if it involves maintenance management for transportation systems.

3.PROPOSED SYSTEM :

In a proposed system for Repair Spot, the goal is to outline a new and improved system for managing repairs and maintenance tasks. The proposed system should address the limitations of the current system, provide new features and capabilities, and enhance the overall efficiency and effectiveness of the

repair and maintenance process. Passengers can easily contact by knowing the address and details of the nearest auto repairman using Repairspot .Appointment Booking Make the User Feel Friendly.
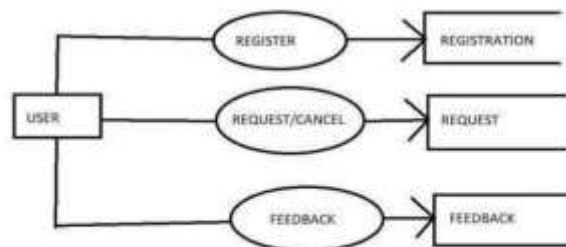
ADVANTAGES:

➢ More efficient

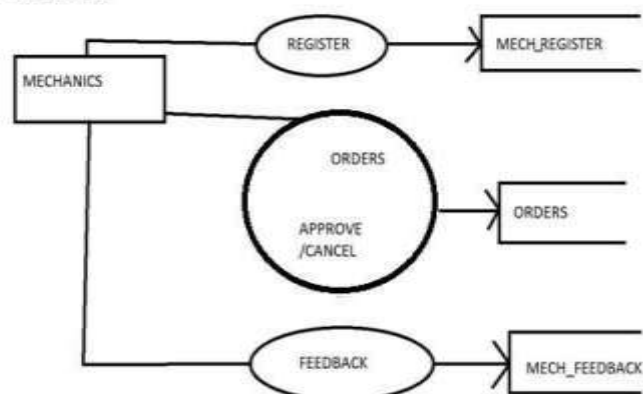➢ No manual work

➢ High performance

4.ARCHITECTURE DIAGRAM :

Level 0:

Level 1:

LEVEL 2:

5.TECHNOLOGIES USED :

Repair Spot is a repair and maintenance system that utilizes various technologies to provide its services. Some of the key technologies used in Repair Spot include:

Web development technologies: Repair Spot is a web-based system that is accessible through a web browser. Therefore, web development technologies such as HTML, CSS, JavaScript, and server-side scripting languages such as PHP or Python are used to develop the system's user interface and back-end functionalities.

Database technologies: Repair Spot requires a database to store and manage its data, such as customer information, repair history, and inventory. Commonly used database technologies include MySQL, Oracle, and PostgreSQL.

API technologies: Repair Spot may need to interact with other systems or services, such as payment gateways or shipping providers. API (Application Programming Interface) technologies allow the system to communicate with external systems and exchange data.

Mobile technologies: Repair Spot may also require a mobile application for technicians to use in the field. Mobile technologies such as Android or iOS app development, mobile APIs, and mobile device management solutions may be used to develop and deploy the mobile application.

Cloud technologies: Repair Spot may be hosted in the cloud, which provides scalability, flexibility, and accessibility from anywhere. Cloud technologies such as Amazon Web Services, Google Cloud Platform, or Microsoft Azure can be used to host and manage the system.

Overall, Repair Spot relies on various technologies to provide its services. These technologies enable the system to manage repairs and maintenance tasks efficiently and effectively, provide a user-friendly interface, and interact with external systems and services**.**

7.IMPLEMENTATION AND RESULT :

Repair Spot dashboard :

The Repair Spot dashboard is a graphical user interface that provides an overview of the key metrics and data related to the repair and maintenance tasks managed by the system. The dashboard is typically the first page that users see when they log in to the system, and it provides a snapshot of the current state of the system.
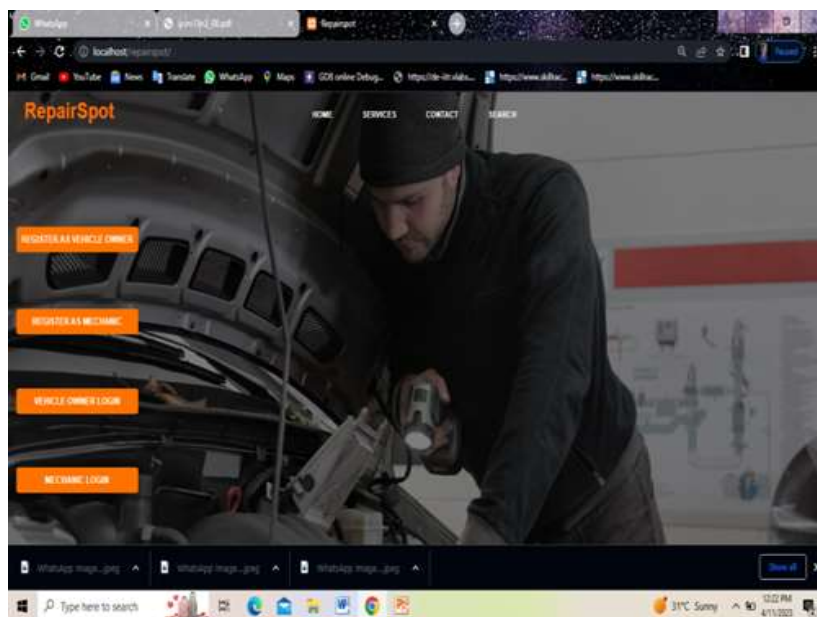
User Registration :

User registration in Repair Spot refers to the process of creating a new user account within the system. The registration process typically involves providing personal information and creating a login username and password. The specific steps and information required for user registration may vary depending on the user type and the system configuration.

Mechanic Registration :

Mechanic registration in the context of Repair Spot refers to the process of creating a new account for a technician within the system. The mechanic registration process typically involves providing personal information, such as name, email address, and phone number, as well as information about their qualifications, certifications, and experience.

User Login :

The user login process typically involves entering a username and password that have been previously set up by the user during account registration. In some cases, the system may also require additional security measures such as two-factor authentication, which may involve entering a code sent to the user's phone or email.

Mechanic Login :

Mechanic login in the context of Repair Spot refers to the process of a technician accessing their account within the system. The mechanic login process typically involves entering their unique login credentials, such as their username and password, which were created during the registration process.
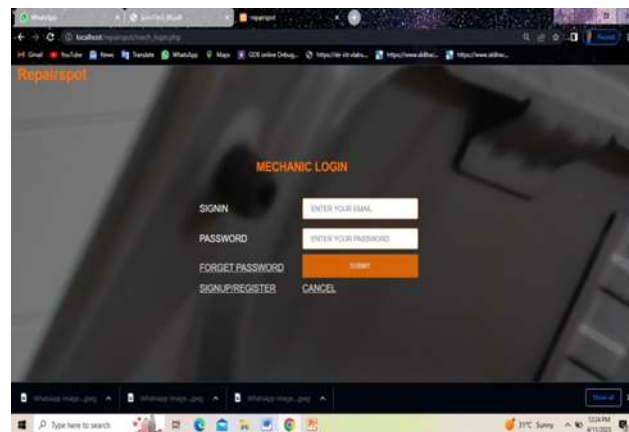
8 .CONCLUSION :

The Project is entitled as "Repairspot" is a web based application. BookingMechanic is a system which satisfied the requirement of the user by booking the repair request from their location. Users can know the status of their booking in this system. After the request is success, user can able to give feedback about his/her experience.We will notice the queries that users can faced and takes necessary actions to resolve it, and we will confirm that user friendly ecosystem.

9. FUTURE ENHANCEMENTS :

The development of this project surely prompts many new areas of investigation. This project has wide scope to implement several new technologies. This project covers all functionalities related to Vehicle repair. Moreover some parts of the project have remained uncompleted due to some reasons. First of all limitations of our project, which has been discussed in previous topic make place for future enhancements. Though that was not the part of objective of our project but it would have great to implement that provided we'd enough time.

10. REFERENCES :

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