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Review of Challenges and Solutions in Web Based Vehicle Breakdown Assistance System

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Abstract: At this point individuals prefer own vehicle for travelling to stay off from trouble. But just in case of any disruption during travelling, it's very strenuous to go looking mechanic in anonymous location. Therefore, to work out this trouble we come up with an online based assistance system. During this system car and bike mechanics are ready to record yourself with their assistance information. The website will trace client's live location automatically when he's online. Based on client's live location, system will develop a listing of the closest mechanics. When the client look for the mechanics then the list are going to be visible, so if user's vehicle breakdown, then he is going to be ready to view the closest mechanics. This website is employed to seek out the closest mechanics while we instantaneously stuck on the rural area because of vehicle breakdown. It's an adequate solution for the client who hunt for help within the rural areas. Here, only verified mechanics are entered in this website. As well, mechanics are examined by the admin for not asking unspecified top off charge against the client. This probably observed through the tech team over the client response supported their assistance. The certified client can attain this website. This website will assist to chop down client time to detect an accurate mechanic. This website will acknowledge client to pay the bill for a vehicle fixing in an appropriate charge.

Keywords: Live Location, Client, Mechanic, Vehicle Disruption/Breakdown, Issue.

I. INTRODUCTION

Nowadays most of the individuals use their personal transport for driving. During trip many people are worried about disruption of their vehicle towards the journey. This is often a foul trip that they need to suffer. When our vehicle abruptly failure on the road, the client should rummage around for mechanic shops on the subject of their destination. Right now we can not ready to rummage around for the foremost effective mechanic which we want to rearrange wrecker. Through this website the client might search for appropriate mechanic. The foremost benefit is that the client can search a mechanic supported their current place and pay instantly by using this website. So many people facing a hassle seeking out assist when the individual vehicle disruption on the way. Many of them do not have any vehicle mechanics mobile number and will not get assistance because the vehicle repair shop may be but their location. This website to assist those that are in need when their vehicle breakdown along the way.

This website helps to go looking for mechanics rapidly since it's trouble to go looking for mechanics to the closest location wherever you're travelling. This system helps to tug off this problem by giving mechanic details in one click. This website reduces work and may easily search the mechanics from different locations. The proposed website reduces your cost and time. The main objective is to supply a superior service and to form the operation easily. The key feature of this app is that it's simple and user-friendly UI. Irrespective of where you're, our website will grab your accurate location with only one click and would facilitate you to locate the closest service providers as per your concern.

II. LITERATURE REVIEW

- 1) According to AAM yearly recital, data displays that proximately 71% of maintenance is fixed instantly which is assessed as lesser vehicle disruption concern.[1]
- 2) Lesser vehicle disruption has mapped out in various types like breakdown take off, breakdown heat, lockout, and others.[1]
- 3) The physical method is restraining personnel as they are incapable to produce quick response because of lack of streamlined strategy with desirable instructions accessible. Speedy reactions aspects are not enough within the prevailing products.[1]
- 4) Primary goal is to style a technique which will be easy to set up and to supply platform for quick access.[1]
- 5) Gradually traffic goes increases because of this accident increases for avoid accident difficulty several.[2]
- 6) Accident prevention by using IR sensors.[2]
- 7) Therefore, they suggest an Internet Of Things structure for smart wayside assistance system that may provide big selection of assistance to drivers and passengers.[2]

III. PROBLEM STATEMENT

The issue while travelling is disruption of our vehicle. During this case, the only approach is to appear for a few different transits in this regard of problem and so you are able to induce a mechanic to the actual destination, so they need left their transportation. During that website, the active customer can know close range mechanics by exploring at anywhere and anytime. The admin can approach the garage particulars and analysis either the listed garage is verified or not and supply authorization.

A. Existing System

- 1) In an existing system there are users who have their own mechanic number, and it's also difficult for them to attain time.
- 2) And it's also possible to seek out the appropriate mechanic for the specified service at remote locations.
- 3) The sole way is to seem for the other transportation at that point of issue, and then they have to induce a mechanic to the actual location at which they need left their vehicle.

B. Proposed System

- 1) The proposed website helps to seek out the nearby mechanics comfortably and quickly.
- 2) This website shows the user location and direct the closest service provider to the user.
- 3) It allows us to look the nearby mechanics from different locations and call to the mechanic.
- 4) The user could make payment supported their service through this website.

IV. SYSTEM REQUIREMENTS AND TECHNOLOGY

- 1) *Internet Connection:* Wi-Fi, Ethernet
- 2) *Processor:* Dual Core
- 3) *Operating System:* Windows 7 or above & Any browser like Google Chrome, Safari, etc
- 4) *RAM:* 4 GB
- 5) A minimum of 50 GB of free hard disk space
- 6) *Front-end:* HTML, Cascading style sheet (CSS), Bootstrap
- 7) *Back-end:* MySQL, PHP
- 8) Any code editor like VS Code, Notepad++, Sublime Text, etc.

V. MODULE DESCRIPTIONS

A. Admin

- 1) *Registration:* Registration of admin is done by super admin and then these access give to the admin.
- 2) *Login:* By entering valid credential's admin logged in successfully.
- 3) *View Mechanics:* Admin can see the listed mechanics with their specifications and has the access to permit or not.
- 4) *View Users:* Admin can see all the listed users specifications.
- 5) *Instant Service:* Admin searches for placement of the closest mechanics to the user and assign the mechanic to the user.

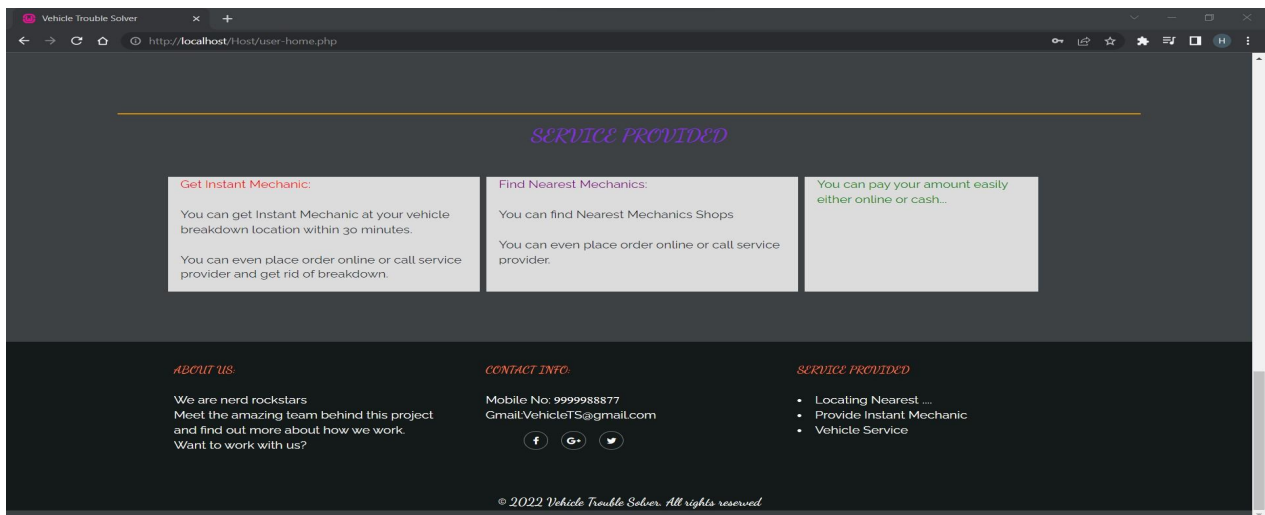
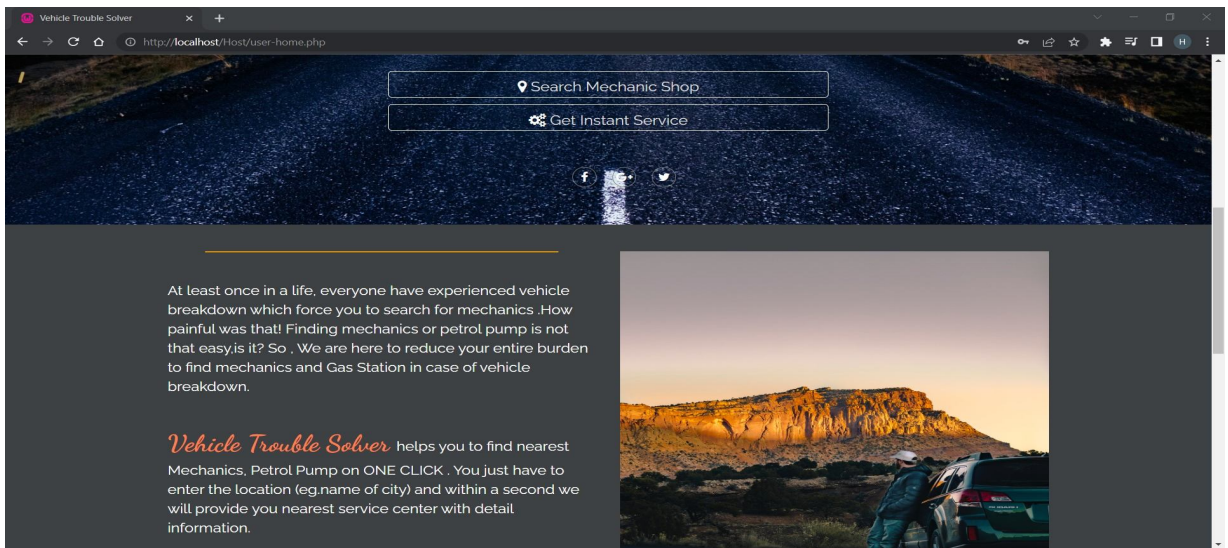
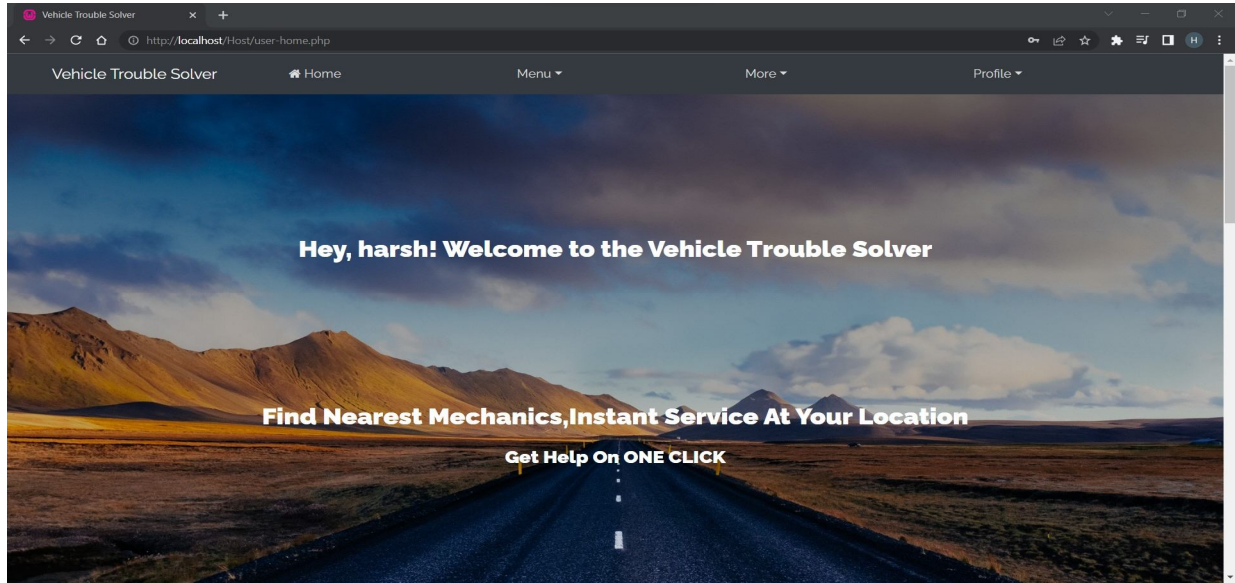
B. User

- 1) *Register:* By entering required details in sign up form user can register themselves.
- 2) *Login:* By entering valid credential's user logged in successfully.
- 3) *Regular Service:* User select service plan in step with their need and obtain service at nominal price.
- 4) *Instant Service:* User select their current locations and user get mechanic details in jiffy.
- 5) *Send Payment:* User have various options for payment like net banking, credit/debit card or COD.

C. Mechanic

- 1) *Register:* Mechanic can register with all their details.
- 2) *Add Shop:* Mechanic add their shop details like address, mobile number, name of shop, etc.

VI.OUTPUT SCREEN



VII. CONCLUSIONS

Therefore, our emergency disruption assistance provide with preferable place outcome. Our website simply discovers the close area that are extremely helpful to the client who implements it in urgencies. The website deliver navigation to the closest emergency service as chosen by the client. It also gives contact information of those services. This technique presents the client involvement extremely simple and executes more favourable than the prevailing system in critical situations like this. Our website has to put all feasible attempts to search out and show the closest mechanic that provides a service to client's place. It helps us the user for towing, fuel delivery, flare tire change and vehicle collision. Mechanic details shall be accessible from the website, which is saved within the host computer as an element of the broader roadside help service.

REFERENCES

- [1] Prof. MS. Pranita P. Deshmukh, Mr. Yash S. Puraswani, Mr. Aditya D. Attal, Mr. Prasad G. Murhekar," ON ROAD VEHICLE BREAKDOWN ASSISTANCE SYSTEM ", <https://ijeast.com/papers/199-202,Tesma411,IJEAST.pdf>
- [2] Megha Dongre, Shalini Verma, Achal Dighore, Sanjeevani Tumdam, Kalyani Dhote, Prof. Milind Tote, "IOT Based On-Road Vehicle Breakdown Assistance",doi: <https://doi.org/10.32628/IJSRCSEIT>
- [3] V. D.Q., M. H., F. M., and R. N. Jazar, 2016 "A Novel Kinematic Model of a Steerable Tire for Examining Kingpin Moment during Low- Speed-Large-Steering-Angle Cornering," SAE International Journal of Passenger Cars-Mechanical Systems vol. 10.
- [4] "Kumaar.A, Balakrishna, Subha. S, Harin. K (2019)". On Road Vehicle Service finder.
- [5] The Interaction Design Foundation. (2020). Prototyping: Learn Eight Common Methods and Best Practices. [online] Available at: <https://www.interaction-design.org/literature/article/prototyping-learn-eight-common-methods-and-best-practices> [Accessed 20 Jan. 2020].
- [6] Florian, e., 2017. Google Patent. [Online] Available at: <https://patents.google.com/patent/US20190171758A1/en> [Accessed 17 January 2020].
- [7] On-Road vehicle Breakdown Assistance: June 2020 Thesis by I.H Dhanuka Nadeeshani(University of Bedfordshire).
- [8] International Journal of Creative Research Thoughts(IJCRT) : "On Road Vehicle Breakdown Services" By Elakkiya R, Bavithra M from Dhanalakshmi Srinivasan Engineering College, Tamilnadu.
- [9] "Kapadi V., Guruju S., & Bojja B. (2017)". Emergency Breakdown Services using Android Application.



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