**7. ROAD SIDE ASSISTANCE**

1. **ABSTRACT**

In the modern generation, Mobile Applications have gained a tremendous amount of fame due to their ease-of-use and purposefulness. The gradual increase in the popularity has led to the exploration of new technologies for the advancement of these Applications. However, there is also an increase in the area of making people’s lives easier by providing useful Applications that could serve real-time needs.

Hence, our Application “ROAD SIDE ASSISTANCE” tends to provide the users to ensure rapid repair and/or recovery of any on road vehicle breakdown of customer’s vehicles , with a facility where they can know about all the necessary details they desire, at the click of a button.

It was decided to roll out a mobile application that will, based on breakdown location, immediately route the request to the nearest service center or certified mechanic, or vehicle towing service. RSA (ROAD SIDE ASSISTANCE) will automatically pull all the required vehicle details from the central database, obtain type of break down from the user, and use the geo-location capabilities of the smart phone obtain breakdown location. This information is automatically routed to top two nearest repair/towing facilities to arrange call back. In addition, all the nearby facilities along with the contact details, are sent to user’s smart phone for display. The solution has to be developed using IBM Worklight Studio and will be deployed on IBM WAS, DB2/ MySQL WORKBENCH and Worklight Server. The target device will be an Android Phone. The development will follow the IBM’s Rational Unified Process.

1. **Introduction**

In the modern generation, Mobile Applications have gained a tremendous amount of fame due to their ease-of-use and purposefulness. The gradual increase in the popularity has led to the exploration of new technologies for the advancement of these Applications. However, there is also an increase in the area of making people’s lives easier by providing useful Applications that could serve real-time needs.

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1. **Existing System**

In the existing system, the Applications that tend to do a similar type of work, i.e., providing to ensure the customer for rapid repair and/or recovery of any on road vehicle breakdown of customer’s vehicles, do not provide any features to store the locations of the places where the customer's breakdown occured and does not obtain type of break down from the customer, and does not use the geo-location capabilities of the smart phone obtain breakdown location. Road side assistance exists for the respective company vehicles only, this leads to a problem.

**3.1. Disadvantages of Existing system**

There was no provision of using the geo-location capabilities of the smart phone obtain breakdown location. Road side assistance exists for the respective company vehicles only, this leads to a problem. It does not provide any features to store the locations of the places where the customer's breakdown occurred and does not obtain type of break down from the customer.

1. **Proposed System**

In the proposed system, the project aims to provide an mobile application that will provide , based on breakdown location, immediately route the request to the nearest service center or certified mechanic, or vehicle towing service. RSA will automatically pull all the required vehicle details from the central database, obtain type of break down from the user, and use the geo-location capabilities of the smart phone obtain breakdown location. This information is automatically routed to top two nearest repair/towing facilities to arrange call back.

In addition, all the nearby facilities along with the contact details , are sent to customer’s smart phone for display. This gives the customer the flexibility to use all the above mentioned features with the help of a single Application.

1. **Conclusion**

Road Side Assistance has been developed by using IBM Work Light, fully meets the objectives of the system which it has been developed.

The system has reached a steady state where all bugs have been eliminated. The system is operated at a high level of efficiency and all the teachers and user associated with the system understands its advantage. The system solves the problem it was intended to solve as requirement specification. Since till now we don’t have any application in any mobile like this that would help accomplish customer needs, we tend to expand more on this Application based on the future requirements and technical advancements.