

IT enabled KSRTC Depot Management System in Karnataka

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Abstract: Aim for developing this project is to provide an interface or web application which provides an online communication for general purposes. The main feature of this system is in the form of database management which is an online system mainly software based that provides user interface to the end to end users of particular division. The proposed system contains five major modules namely- Management Information System (MIS), Fuel management, Controller management, Workshop management, Student Bus pass. The Student bus pass will be generated in Portable Document Format (PDF), and the System admin module that administrates the entire database created using user id and password that is already given to the employee and college clerk. If employee forgets password then he will recover it by user id and email and gets updates of the password through email Id .The projected system provides online task management facility to all above mentioned modules.

Keywords: - Bus depot managers, Control Manager, Fuel Manger, Management Information System, Workshop Manager.

I. INTRODUCTION

From many years the public transport is been provided mobility to peoples an cheaper and comforting joy able and secured way of transport but the working ethics and maintaining of transport system is not been properly automatized. In the conventional system, all the information is stored using excel sheets. And manual paper working processes is implemented that arises a lot of complexity of maintaining the precise data and there a chance of data loss as well. Thus to overcome these problems making the system autonomous or web enabled is in a best viable solution.

Where manual work is very much reduced and traditional processes can focus on giving end users or travelers a good amount of services. KSRTC Depot Management System. In proposed work we aim to build Web application which helps maintain the information of the services records accountable.

This project provides interfaces: web application interface Service providers and end users. Across the board, city officials in developing countries are under strong pressure to improve the efficiency and enhance the attractiveness of bus transportation the intended objective of the project is to bring the entire day-to-day process online. The proposed project targets to provide the entire process through the web based API to monitor the tasks of the KSRTC divisional workshop or Depot activity. The total working processes stored in electronic Database. In this Project Main Controller, MIS Manager any viewed and notification updated any time anywhere working process viewed easily.

Web API enabled KSRTC Depot Management System can be implemented to Karnataka KSRTC web portal with certain articulatory changes as web application which works for KSRTC Employee. As depot management staff about and employees day today working process will be automatized as till date it's not been recorded and not been implemented, Employer can directly check the regular activity and can get directly links with the KSRTC report and check regular working process with an ease.

Due to the drawbacks of the existing system the working the proposed project was crafted which will in-terms provide effective, easy and safe services for ksrtc marinating and managing easy. The intended objective of the article is to bring the entire day-to-day process online. The project consist of main five major modules which brings the entire process covered and integrated together to form IT enabled ksrtc depot management system.

II. RELATED WORK

As we know System is by an excel sheet or manual on paper so for. The Employee information like name, job type, phone number, little advance like excel sheet, after every bus check report stored a score in excel sheet or on paper searching report one by one to particular employee to write report. Taking a working process manually at every day take more time , storing information in excel sheet not a secure because more than one employee cannot enter data at a time that is multi-tasking not possible, the existing System has lack of problem it is may be no notification employee, generate of report not available, no security of data. Online Bus Pass generation system is already executed in Andra Pradesh State in India.

III. PROPOSED METHODOLOGY

The Main sources of information for study were “active” interviews, informal discussion and onsite opinion through surveys. The procedure adopted here is of an explorative design and both primary and secondary data have been used. In-depth discussions were undertaken for the purpose of obtaining information and better understanding of social development. The qualitative discussions are valuable, inductive and are explanatory.

In the project ksrtc Server there are total five models, each model working separately in user and employee server. It ask user ID and password which must be match manager accesses server. If you forget password by email id and user id you will get it. Once login you can access server up to 8hrs. They enter daily activities in database easily. Later manager can view daily activities. In daily any time login and logout also available with that server is quickly response to the data. As shown in below figure 1.

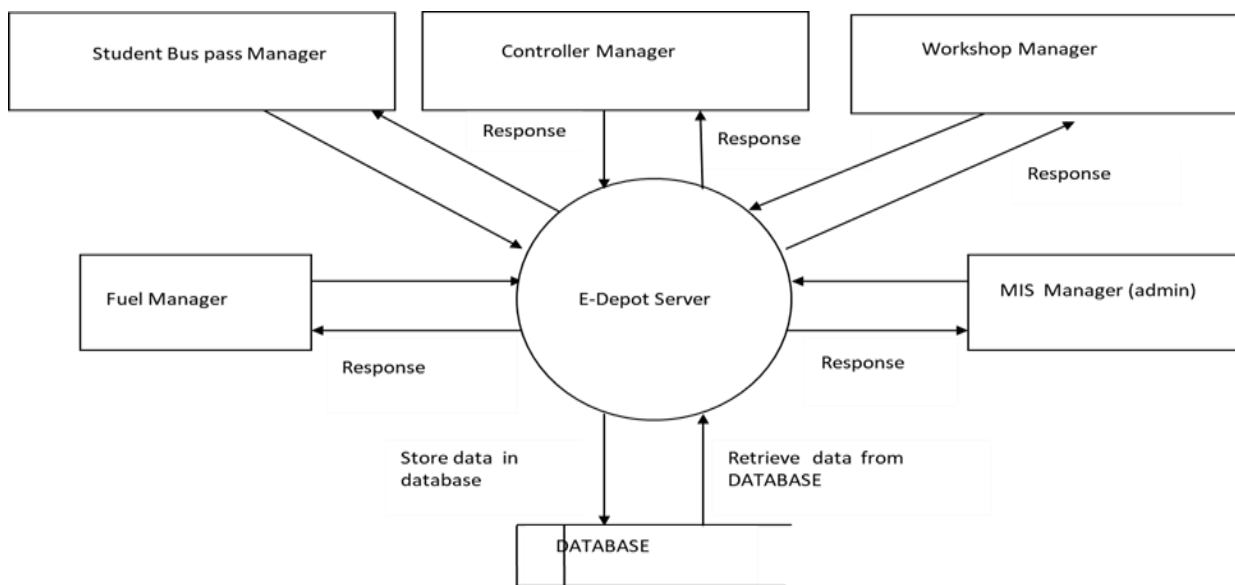


Fig 1. System Architecture

3.1 Student E-bus pass:

This is in the process of further development of the existing infrastructure to further improve services to the students. IT enable KSRTC ticketing website continues to be considered a target a new method of generating the student bus pass through online. This model basically handles Student E-pass Management. In this model sub three models have model student bus e-pass generate pdf first In First one clerk model he is filled student application form. Student should login with his credentials (Name, Aadhar card number and College Register number OR admission number). Student can access clerk filled data read only and e-Pass also download pdf format. Firstly manager should login with his credentials (User Id and Password). In finally clerk enter the data completed filled data he some data verifying including payment also verified data in successfully generate pdf notification on student user id that's all working processes.

3.2 MIS Manager

This model basically handles MIS Manager. Firstly manager should login with his credentials (User Id and Password). In this model main major working is completely server manager and database generated remains model, all the user id and password creating and new bus adding. All employee data accessing, modifying and updated. New bus routes and time schedules also created and updated all driver and conductor all employee and data user Id, password also view directly without any condition. All employee position also updated easily.

3.3 Fuel Manager

This model basically handles Fuel Management. Firstly manager should login with his credentials (User Id and Password). Whenever the bus comes he receives the information such as Driver Name, Bus Number, Bus Log Sheet Number, Quantity of fuel filled and amount for that fuel from the driver and uploads it to depo database.

3.4 Controller Manager

This model basically handles Controller Manager. Firstly manager should login with his credentials (User Id and Password). He everyday working all managers working processes checking and daily all work allocation one by one.

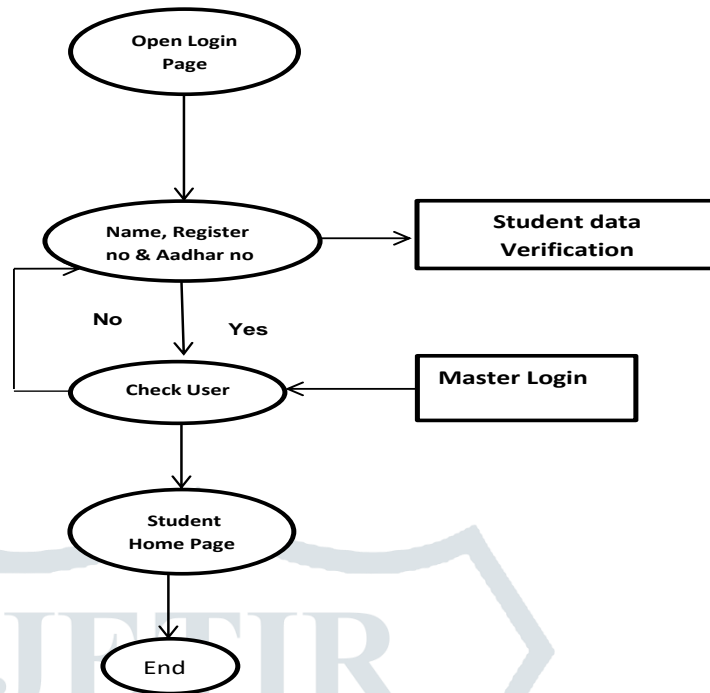
3.5 Workshop Manager

This model basically handles Workshop Management. Firstly manager should login with his credentials (User Id and Password). Whenever the bus comes he receives the information such as Date, Working Start time, End time, Bus Number, Driver name, driver Id and Finally report according Working table for that Workshop from the driver and uploads it to depo database. And finally the bus whatever condition suggestion next feature changes immediately filling in form.

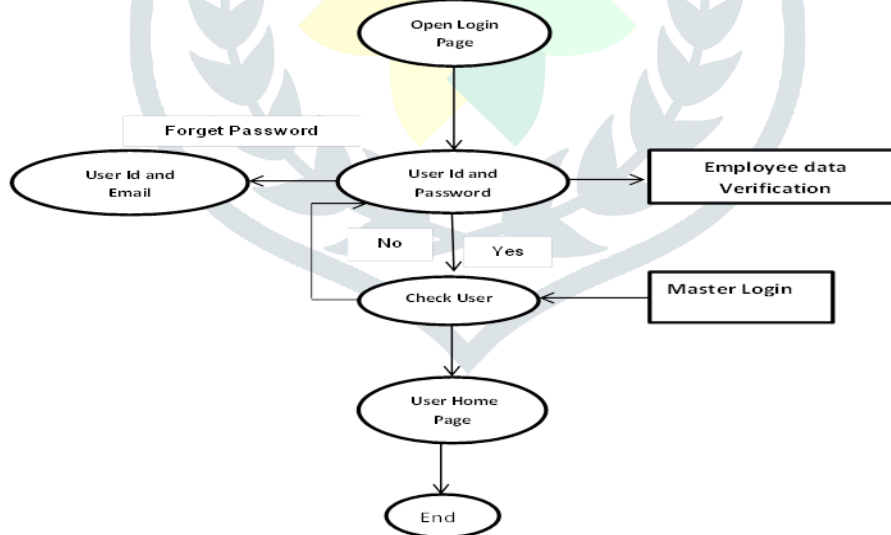
IV. EXPERIMENT RESULTS:

It is an inferred from the above model studies that planning and implementation of entire processes of KSRTC in Karnataka Depot working functionality. To provide the tasks this takes place in depot online facility for access at any time. Entire depot record maintains. Secure Data base and Provide data Access 24x7 to the deserving authorities.

4.1 Student E-bus Pass Algorithm:



4.2 Proposed Algorithm:



V. DISCUSSION

The proposed system is electronic database management based software which provides user interface to the end users of the particular division. The proposed system contains major five modules named as: Administration module, Controller module, Workshop module, Fuel Management module which provides student bus pass facility, and the System admin module that administrates the entire database of the system. The proposed arrangement provides online task management facility to all above mentioned modules.

VI. CONCLUSION:

The IT enabled KSRTC depot management system is designed daily activities stored in database. And also provides the generation e-pass online, maintains fuel management data, allocates humane resources and maintain work processes KSRTC management. The entire system is being developed using above mentioned tools and technologies which will facilitate the employees of KSRTC as well as the public/society. Thus provides feasible solution using the KSRTC application.

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