

TRANSPORT VEHICLE MAINTANANCE USING SMART PHONE APPLICATION

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Abstract: The TVM project is designed to provide easy access of maintaining the bus details like time scheduling and maintenance. Using mobile application this project is very useful for the in charge of transports in every concern. Especially it is useful for the institutions .By using this project we can maintain the details of drivers, students, staffs, and other users. Also we can maintain the details of particular bus.

We can use this project for the following maintenance.

- Bus Details : RC details, F C details , fuels refilling, mileage and servicing.
- Driver Details : posting driver and acting driver name , address ,mobile number ,licence number and attendance.
- Route Details : Stoppings in particular route, particular time of particular stoppings.
- Students Details : Register number, department ,name, address, fees instalments, and boarding Point.
- User Details : Details and boarding point of faculties , nonteaching staffs, office employees, Housekeeping.

INTRODUCTION

Transport management is the management of a college transportation fleet. This includes commercial motor vehicles such as bus, vans, as well as cars. Transport management has a range of functions, such as vehicle financing , vehicle telemetric .Transport management is a function which allows companies which all transportation in business to remove or minimize the risks , associated with vehicle investment thus improving efficiency ,productivity and reducing their overall transportation and staff costs and providing 100 % compliance with government registration .

In order to get good support from customer, bus company need to perform good service and facilities. Therefore, to generate to the best bus services, the college management should be more effective and efficient. By computerized the manual system and bus operation. the management of the transport company can become more effective and good performance of service might be increased.

Bus management system is a standalone system. This computerized management system if for the admin to manage driver and operations. There are two part of management consist in the system such as driver management and bus management , driver management consist of driver profile ,leave, salaries and licences record while bus management consist of bus profile, maintenance schedule , road tax and insurance ,route and student boarding point.

RELATED WORK

1. Digital bus passes checking using QR- code

This project provides a good resolution for the managing bus pass information. Their system has 3 logins that is user, admin and conductor. This method provides internet application in addition to Robert application for individuals to induce their bus pass on line.

This method is help to scale back to paper work time consumption and the user gets the refill their account and extends the validity of card once the pass goes to expire. This method provide partiality like accessing basic info of user for authentication and supply bus pass for the user while not putting them in long queues . The conductor in bus would be security possibility for user. The conductor in bus would be able to verify the location scanning the QR code provided on the system would be send to the user in type of message like once wherever and what the Pass with a counselled device .The notification generated by the system would be send to the user in type of message like once wherever and what time the cardboard was use.

2 .Advanced college bus management with the help of ASP.NET and CSHARP

The here within proposed bus management software system project may be a desktop care of bus flexibility throughout these processes .The system generates complete reports associated with the bus management i.e. fees paid , dues , rout no.& bus stop .The reports highlight varied bus service and option of the faculty administration to improve the bus

transport system . The system need a relatively touch of resources like memory, input/output devices, and space. The system overall keep approach in highlight key option of the bus services.

3. Smart college bus tracking management system and its application

The bus pursuit system may be value effective and economical system. In addition to other method proposed this method includes four applications that are going to be developed. 1st application that is buy system that is capable of between school server and relating to the present location of buses. Second application is causation a gaggle message i.e. alter message to the student waiting at consequent stop, changes in current route, bus number etc., thus its save the time of waiting for the student buses time.

Third application is generation of e-bus pass system that is monitoring eco-friendly as there no necessity for the generation of plastic bus passes. Last application is developing associate in monitoring emergency handling system which can send alert message at the same time to varsity, police and motorcar surveillances just in case of accidents.

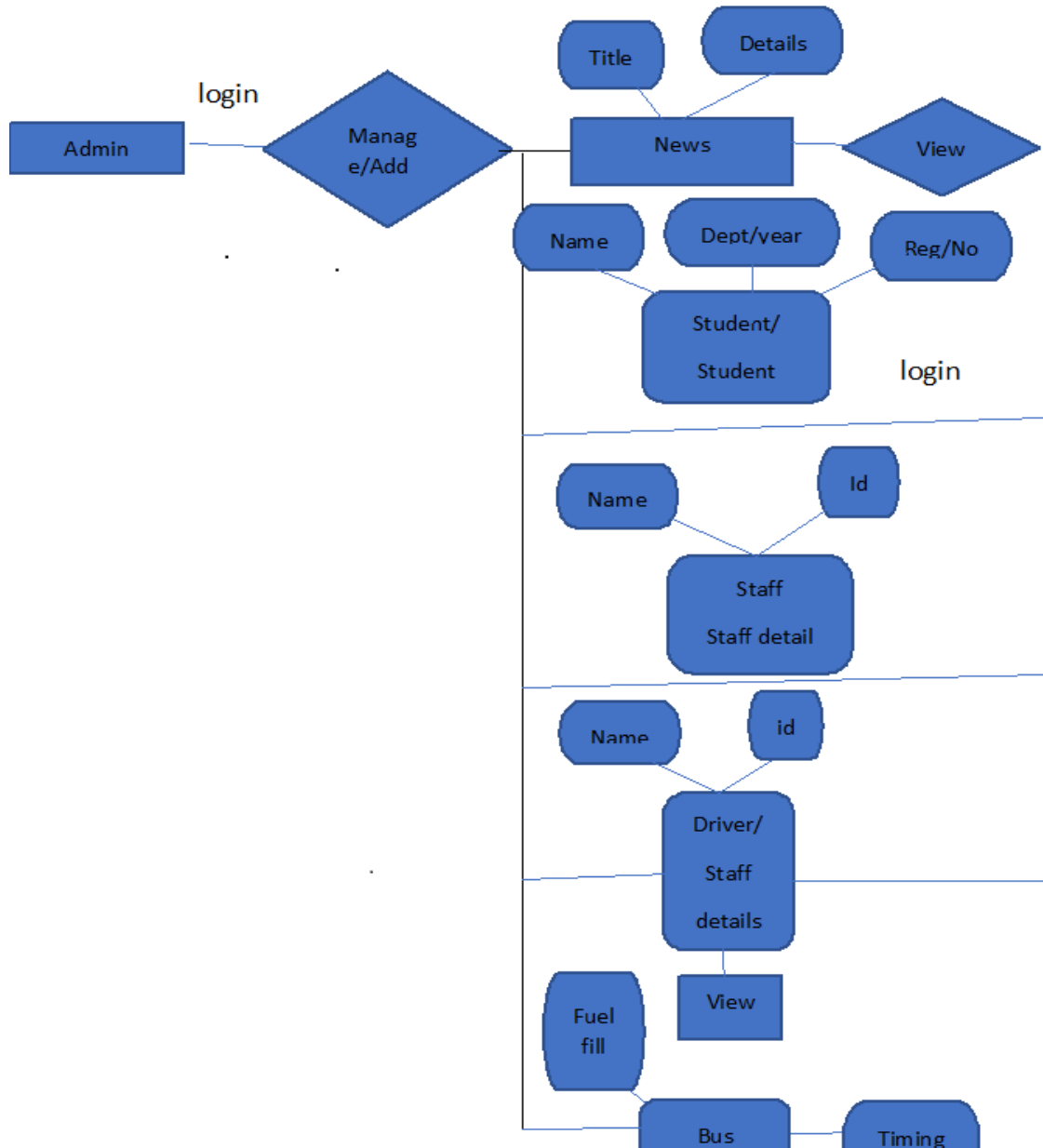
MODULES DESCRIPTION

In this project have 5 main modules

- Admin
- Student
- Staff
- Bus-In charge
- Driver

METHODOLOGY

ENTITY RELATION DIAGRAM



Admin

- ❖ Admin can log to the admin account after authentication and authorization .the can enter new road can view the details and also he can select the route from the last routes and the corresponding stop are displayed.
- ❖ He can also enter the new student details and can view the last of student .He has the operator to add and remove a student details figure below the home page of admin.

TRANSPORT VEHICLE MAINTANANCE USING SMART PHONE APPLICATION	Notification user name student staff driver
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SIGN IN

User Name : admin

Password : *****

A) Staff and student

Student and staff has enter there particular register number and mobile number to login page. Student or staff at long page using there password and register number, he has can show the bus details, fees details, route details etc.....

TRANSPORT VEHICLE MAINTANANCE USING SMART PHONE APPLICATION

Student Login here

Register No: 677876

Name : ANU

V TESTING

Software testing is a process used for the verifying the correctness, completeness and quality of the development software .

The sequence of the testing activities performed for the tracking system is below:

- ❖ Unit testing
- ❖ Integration testing
- ❖ System testing

FUTURE ENHANCEMENT

After analyzing the test result of the developed system, the following issues are still open which can be take up as future enhancement .As android phone are widely used everywhere, it is obvious that application like these offer simple solutions to do our daily activity. These the android application can be used in future to manage not only college bus but also vehicles that belong to the institution. these application can be also used in any other domain to carry out fleet management efficiently.

CONCLUSION

Despite the ingenuity show by many transportation in developing their individual maintenance monitoring programs . the college maintenance clearly lacks guidance and direction in this perform important area .NTD report ,useful as basic assessment of overall agency performance ,are not being used widely by maintenance personnel.

REFERENCES:

1. Amazon.com "Amazon web services (AWS),"second Edition .R. Curtmola, J.A Garay .S. Kamara, and R. Ostrovsky, __searchable symmetric encryption Improved definitions and efficient constructions.in proc. Of ACM CCS.2006
2. D. Boneh, G. D. Crescenzo, R.Ostrovsky , and G .Persiaon, __public key encryption with keyword Search ,I in Proc. Of EUROCRYPT.2008
3. j. katz, A Sahai, and B Waters, __predicate encryption supporting Disjunctions, Polynomial equation, and Inner Products.27th Ann. Int 'I conf .theroy and applications of cryptographic techniques (eurocrypt),2010

WEBSITES:

- In.php.net
- en.wikipedia.org/wiki/php
- www.hostscripts.com/category/php/
- www.apache.org/
- www.mysql.com/click.php?e=35050
- www.w3schools.com/mysql