

DIGITRA

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ABSTRACT

We approach a special system for digital transportation in which two services are provided which are digital bus pass and online fuel delivery system. This system mainly designed to avoid unnecessary time conception to find petrol pump in our area as well as to make the bus pass. As both process are online they can be used 24 X 7 and 365 days. The user has to register in the system then only they can use both the services. In bus pass service, user can issue as well as renew their bus pass online. And in fuel delivery service, if someone has stuck in the middle of way and can't find a petrol pump nearby then he/she can order fuel online using Digitra System

Keyword -.Security, Reduction of Time.

1. Introduction

So first of all the full form of "Digitra" is Digital Transport. In this project, we are going to develop a digital transport system. It will be the combination of 2 things, Online Fuel System and Digital Bus Pass.

Imagine you are travelling somewhere, and all of a sudden your vehicle stops because of insufficient fuel in it, and you cannot do anything about it, as there are no petrol pumps near you. This can be very frustrating at points as you are stuck in the middle of nowhere and have to rely on other vehicles, but guess what, you can order fuel for yourself wherever you are either in house or someplace else. Here you just have to visit our website and you have to enter your address for delivery of fuel. Then in just 30 minutes delivery boy will come with fuel. Here different payment methods will be available like Paytm, debit card, paypal etc.

And in Digital Bus Pass system, Customer can buy the bus ticket over the Internet, 24 hours a day throughout the week, this solves the issue of bus ticket being misplaced or stolen. User scan recharge through webcam scanned QR code at bus depot through qr scanner system. In addition, the Online system lets the customers check the availability of the bus ticket before they buy bus ticket. Further more, customers no need to pay cash to buy bus ticket because they can pay the bus ticket by using Credit Card

(e.g. Master Card, Visa Card). Hence, there is a need of reformation of the system with more advantages and flexibility. The Bus Scheduling and Booking System eliminate most of the limitations of the existing software. Bus pass web system to put it simply, means system can provide pass identification using QR code, Pass renewal, cancellation, updating, Student discount etc.

1.1 Problem Definition :

The Digitra System aims at helping users to make their bus pass online, make registration and issue them. As well as it enables users to order their fuel anywhere and anytime. It enables system administrators to define and manage users data as well as their account. Users access location based information and request system services via mobile applications whereas admins may manage the whole system details via a web application.

1.2 Proposed System

Other countries are growing very rapidly and becoming digital because they are using advance technologies. But in our country we are lagging somewhere because we are not using advance technology to become digital. There is no online

system in city bus pass. It is using that traditional method of maintaining a long queue and using cash to make the pass. Also there is no system to deliver fuel online to the needy person. If someone's vehicle gets out of fuel in the middle of way then they have to push their vehicle to the petrol pump.

So after seeing both the problems we decided to make a system where city bus pass can be made online as well as fuel can be delivered to the needy person online.

The name of our system is 'Digitra' which means Digital Transportation. Here we have provided solution for both these problems by making them online. In our system, the user just have to create an account and then he/she can take benefit of both the services.

After logging into the system, they will see two services of Online Bus Pass and Fuel Ordering System. If they select the bus pass service and they want to issue a new pass then they have to fill one simple form as well as selecting their route and they have to upload their documents such as school/college bonafide for the verification process. After that they have to pay the charges of bus pass then their bus pass will be generated.

On the other hand, if the user chooses the fuel ordering service then they have to give their details such as their basic information, quantity of fuel and their location. They can also pay their charges online using their Debit card, Credit Card, Bank account transfer etc. If someone wants to pay cash then there is also Cash on Delivery service available for them. And in just 30 minutes, our delivery boy will deliver their fuel to that particular location. There will be the delivery charges which will be based on the location of delivery.

2. LITERATURE SURVEY

2.1 Existing algorithm/programs:

I As mentioned previously, today there exist no such function or program to order fuel or the operation related bus pass digitally. The consumer needs take efforts himself to take fuel from petrol pumps and the operations related to bus pass are all done manually.

2.2 Disadvantages of existing system:

- Less Efficiency as work is done manually.
- Large manforce required.
- NO fuel can be ordered at our place.

2.3 Proposed approach and its advantage over existing system:

- User friendly (As works are done digitally on finger tips).
- ALL time availability.(system remains available as long as computer is well connected with network).
- Easy computation.
- Easy Storage of data.
- More efficient.
- Requires less effort and time.

3. ACTIVITY DIAGRAM

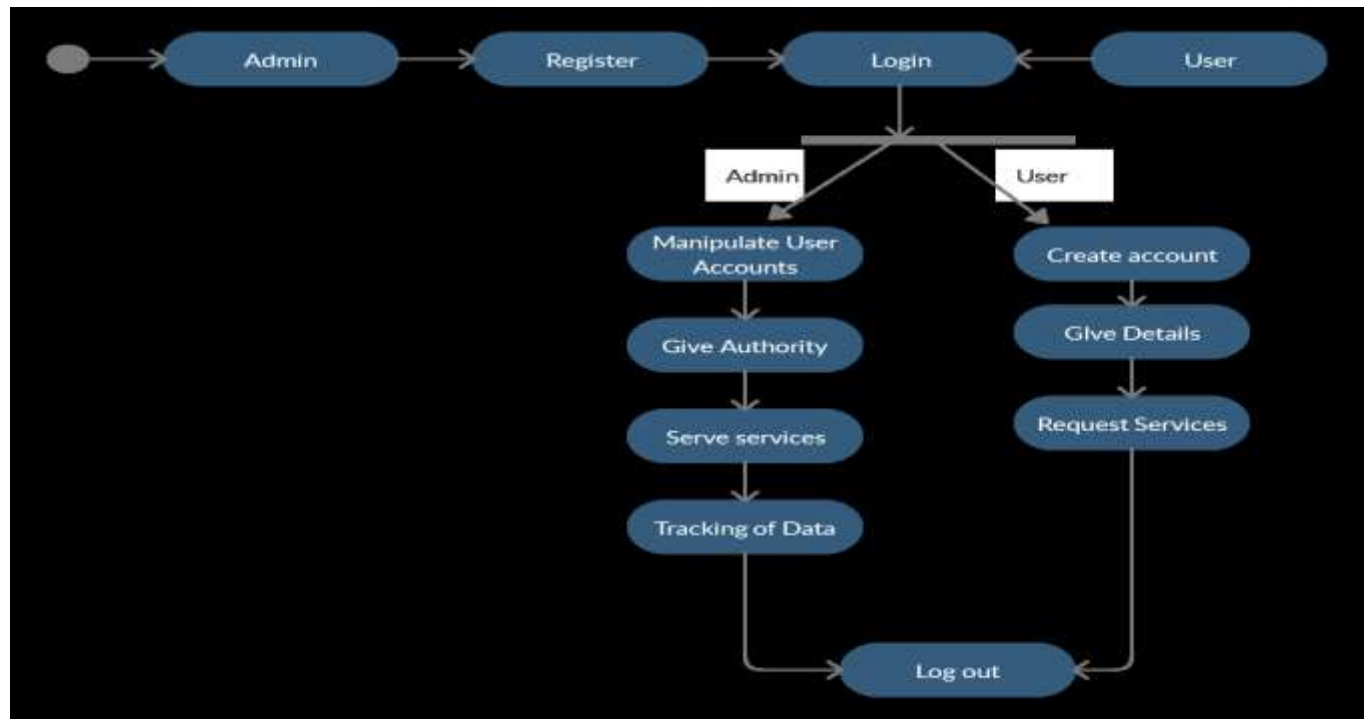


Fig -1: Activity diagram for overall system

This is the Activity Diagram of Digital Transport System ,Which shows the flows of login activity ,where admin will be able to login using their username and password .After login user can manage all operation on fuel order and bus pass system.

4. MODULES IN THE SYSTEM:

1.Admin:

The admin is the one who has the control on all over the system. Admin handles the data of the system and has the authority to do all the actions. Admin can do following actions:

- Create user.
- Delete user.
- Track user data.
- Provide authority to user.
- Manage delivery of order.
- Manage whole system.

2.User:

The user is the one who request some service from the admin and server and uses the system. The user can use both the services at anytime and anywhere. User will use the services provided by the admin of the system and they don't have the authority to perform higher actions which change the system. User can perform following actions:

- Apply bus pass.
- Renew bus pass.
- Order fuel.

3.Login/Register:

The user has to login into the system to use the services. If there is a new user then he/she can register into the system and then use the services. The admin has it's own login id and password which will lead to the admin panel.

5. DESIGN :

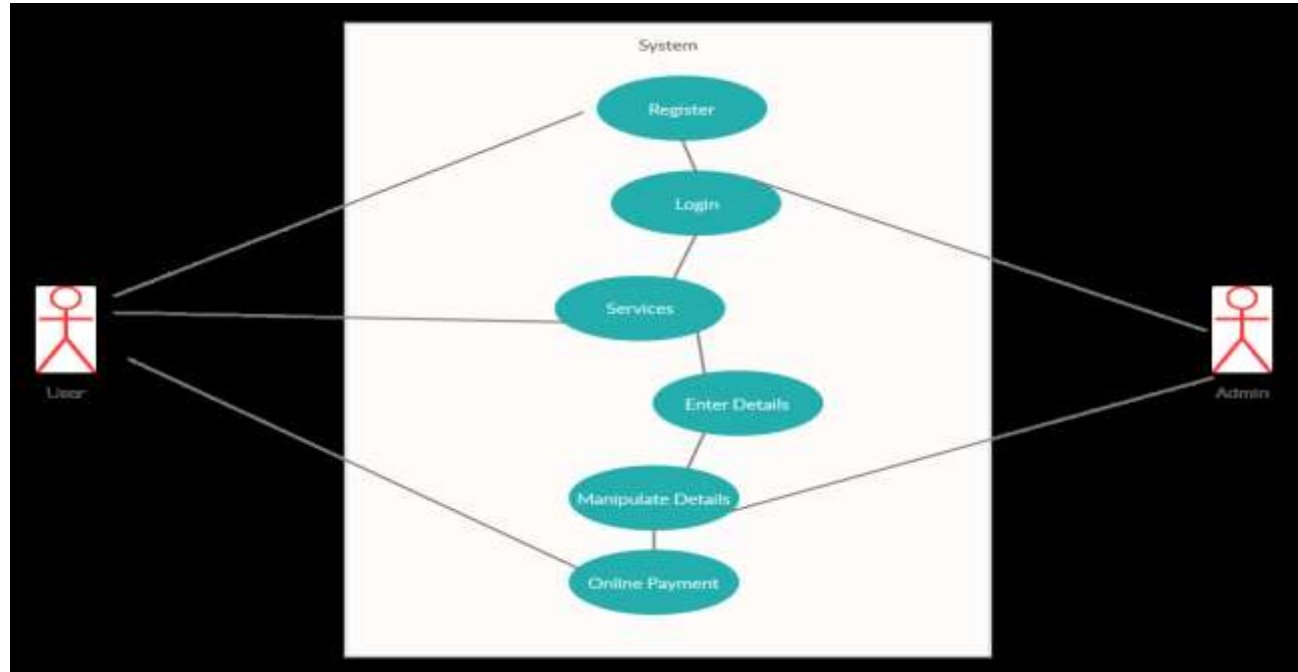


Fig -2: Use case diagram for overall system

Figure 1 gives overall view of the system functionalities. It also shows the relationship between different modules of the system. Viewing use case diagram use of the system can be clearly demonstrated. The three user of the system accesses the system modules according to the privileges provided to them by administrator.

6. FUTURE SCOPE

The system which is developed is going to be useful for the smart people living in the smart cities. And they can use this system to become the part of Digital India.

In the future, we are going to make the app of this website which will be very easy for the users to access the system. In the fuel ordering system, we are going to add the section of live tracking of delivery boy as well as maps to search the nearby petrol pump.

We are also going to add the live tracking of city bus, their timing schedule and payment methods in the bus pass system. So after adding all these features, the Digitra System will be more efficient as well as convenient for the users.

7. CONCLUSIONS

Nowadays everything is becoming online from buying something from online store to booking the seat in the cinema hall. But there is no change in the city bus pass service. Government using traditional methods like staying in the queue and paying cash to make the bus pass which consumes so much time of students.

Also on the other hand, there is no delivery service for fuel. If someone's vehicle gets out of fuel then they have to push their vehicle to the petrol pump. The petrol pump may be very far away. So it will be very difficult to push the vehicle to that petrol pump.

So after seeing both these problems, we made the Digitra System where the students can issue as well as renew their bus pass just by using their phone. They don't need to come to the pass counter to make the pass. They can also pay the charges online using various payment gateways provided in the system.

In the fuel ordering system, the user can order his/her fuel online by sharing their location and in just 30 minutes their fuel will be delivered to them on that particular location.

Both the services are available 24 X 7 and 365 days. The user can use the services anytime and anywhere.

So we have concluded that we have developed the Digitra System which provides different services for the betterment of the society. Using this system, we can contribute to our country to become the Digital India.

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