



Go Easy : Online Registration and Information System

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ABSTRACT

This project is aimed at developing a smart system for travelling that is of importance to passengers. It is designed for both who regularly travel by bus from permitted origin place to the destination and who travel from anywhere to any destination when he/she wants. This smart system can be used to automate the workflow of getting bus pass of any type for required time period. Now you can travel by a smart bus pass in which kilometres are debited in place of money or a time period. You have to do just **SCAN** the card and **TRAVEL** wherever you want to go.

For travelling from one place to another, passengers use the bus pass. To get the Bus pass they have to do lots of paperwork. This system is very complex and time consuming and the only solution is "**GO EASY-Online Registration & Information System**" which is useful for everybody who is travelling through buses. To get this smart pass you just go online, fill the application form and details then submit, and then the **Bus Pass** is yours. **Go Easy** for a happy ride!!

Keyword: Bus Pass, Online Registration System, Scan and Travel

I. INTRODUCTION

We have carried this project from 6th semester Design Engineering project. But in this semester we have made some changes as per requirement of hardware and software. We have selected this project because travelling is daily routine of everyone and in this century no one want to waste time on getting ticket and bus passes for travelling. So analyzing the real world problem of travelling it is better to make a smart system for travelling. This system comprises not only issuance of bus pass but also comprises e-ticketing and information related to bus route and timing. So to reduce the complexity of current system and automate the workflow of travelling system this project was selected.

This project is mainly designed for passengers who are used to travel by bus. This system contains a website, bus pass with barcode or QR code and a scanning device that scan the code. Through website user can register, update, renew the bus pass, and get the information related to all the bus routes and much more. Bus pass is used by user to travel through origin place to destination. It contains user identity, bus pass type, route information and remaining balance. And the scanning device scans the QR code or barcode that contain the unique identity number and perform operation for travelling. Problems created by current system can be solved by this system. This system fully automates the current bus pass and travelling system and reduces the time required for getting bus pass or ticket.

II. LITERATURE REVIEW

1. Methods and apparatus for a travel related multifunction

Smart card (US6101477 A)

The present invention relates generally to the use of integrated circuit cards, or "smartcards," for commercial transactions and, more particularly, to methods and apparatus for conveniently storing, retrieving, and updating data related to a cardholder's travel information in the context of a distributed transaction system.

Methods and apparatus for a smartcard system are provided which securely and conveniently integrate important travel related applications. In one embodiment, a smartcard system includes a cardholder identification application and various additional applications useful in particular travel contexts; For example, airline, hotel, rental car, and payment related applications. Furthermore, memory space and security features within specific applications provide partnering organizations (e.g., airlines, hotel chains, and rental car agencies) the ability to construct custom and secure file structures.

2. Travel kiosk (EP 1998299 A2)

A travel kiosk which focuses operator attention to a work area. The travel kiosk includes a first portion containing a touch screen and a second portion adjacent the first portion including a printer, a barcode reader, a passport imager, and a radio frequency reader. The second portion contains a work area for obtaining first information from an operator provided passport, for obtaining second information from an operator provided travel document, and for delivering a printed travel document to the customer. The work area includes a shelf for

aligning the passport, a passport tunnel at an end of the shelf for guiding the passport into a position in the second portion for reading by the passport imager and the radio frequency reader, a printer exit shoot above the passport tunnel for delivering a printed travel document from the printer, and an overhang above the printer exit shoot containing the barcode reader, wherein the barcode reader scans the operator provided travel document following placement under the overhang.

3. Universal Ticketing and Payment System

A remotely-accessible computer system allows a purchase to establish an account and then purchase admission to live events or venues. The system provides the purchaser with a pass containing data identifying the account established for the purchaser which account contains information about purchased admissions. The pass can be used to gain access multiple events. The purchaser presents the pass at the entrance to the event and a reader reads the identification data and for Wards it to the system. The system checks that the purchaser has purchased entry to the particular event and provides a signal to the event indicating whether admission to the event should be allowed or refused.

III. CURRENT SYSTEM

In, Current system there are many problems faced by students, employees, labors in short passengers just because of poor bus pass system. Any user (passengers i.e. students, employees) who wants to get bus pass was filled their application form and goes to get approval by stamping of authoritative person at destination place. And then go for final approval and issue bus pass at bus depot or head office.

When you reach the bus depot and you think that process is over, but that's not true, there are lots of problems you have to face for getting the bus pass. You have to join the waiting queue and wait for your turn. If there is authoritative person is not available then has to wait or come another day. And till the bus pass is not issued they have to pay the regular amount of tickets and not permitted for concession or discount.

In today's world time is very important even a few minutes are also valuable. But the current procedure for getting bus pass is very time consuming, this procedure takes a day, two days or one more. You have to spend your important time in doing this instead of other work. And if there is holiday then you have to stop your procedure because that day bus depot or any offices are closed. You have face any weather conditions if rainy season, sunlight and much more.

IV. NEW SYSTEM (GO EASY)

This 21st century is technically far advanced and there is a rapid growth of technology. The advancement in technology in the last few decades has improved our lives in every aspect. Manually driven systems are being substituted by the computerized system. Internet is one of the major applications of computer. With the point of using the internet with organization is information exchange. In now days no one likes to use cash, everyone uses the plastic money like Debit card, Credit card, ATM card. In this advanced technology people can shop through Debit card. This project gives a suitable Bus pass system(smart pass), for students, employees, faculties who regularly travelling from one place to another, in short all who can up-down from their place, and facilitates to travel without cash, through by just scanning your smart pass. Previously this process requires paperwork, consumes lots of time and very complex.

This smart pass is mainly designed to scale easily for regular travelers to tourists. It offers featured, flexible and a quick way to implement your smart passes. This project reduces the paper work, complexity and time. It provides the passengers with the ease of using smart pass or smart pass. It avoids the unwanted cash clash.

The Current system “**GO EASY-Online registration & Information System**” system is to automate the procedure for issuing bus pass. With the help of this system user can apply the smart pass online, authoritative person can approve the card and then you’re smart pass is in your hand. The user can travel by using this smart pass instead of buying a ticket.

V. COMPARISION

1. Current system is very complex system, due to complex procedures. Whereas, Our system is totally automate system.
2. Current system is time consuming process. Whereas, Our system is time saving process.
3. Current system has lots of paper word, Where new system reduces the paper work.
4. Current system is OFFLINE at all and New system is fully ONLINE system.
5. We have to go at depot for issuing bus-pass in current system, but in Our system bus-pass can issue at anytime and from anywhere.
6. In, Our system payment also online, *unlike* Current system.
7. We does not have to manage the records of bus-pass user manually in our system, it is automatically saved in our database.
8. Our system provides the bus schedule and also provides the weather information affects on bus. But, Current system not provides such information like bus-schedule and weather information.
9. It also prevents against the miss-use of bus-pass, because the photo, signature, and stamp of school/college available on swipe card. Where current system does not provides the services like this.

VI. FIGURES

Activity Diagram:

Activity diagrams are graphical representations of workflows of stepwise activities and actions with support for choice, iteration and concurrency. In the UnifiedModelingLanguage, activity diagrams are intended to model both computational and organizational processes (i.e. workflows). Activity diagrams show the overall flow of control.

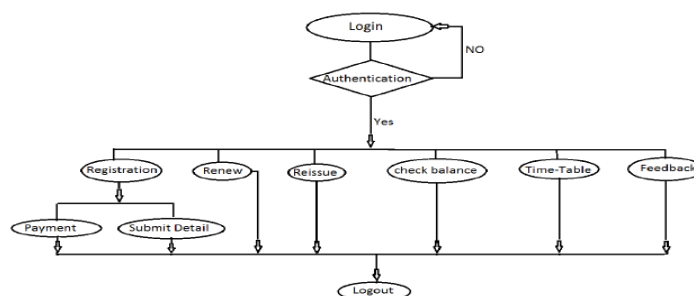


Fig.1. Activity Diagram

Flow Chart:

It is a type of diagram that represents an algorithm, work flow or process, showing the steps as boxes of various kinds and their order by connecting them with arrows. This representation illustrates a solution model to a given problem. Using this model we've described project's process of work.

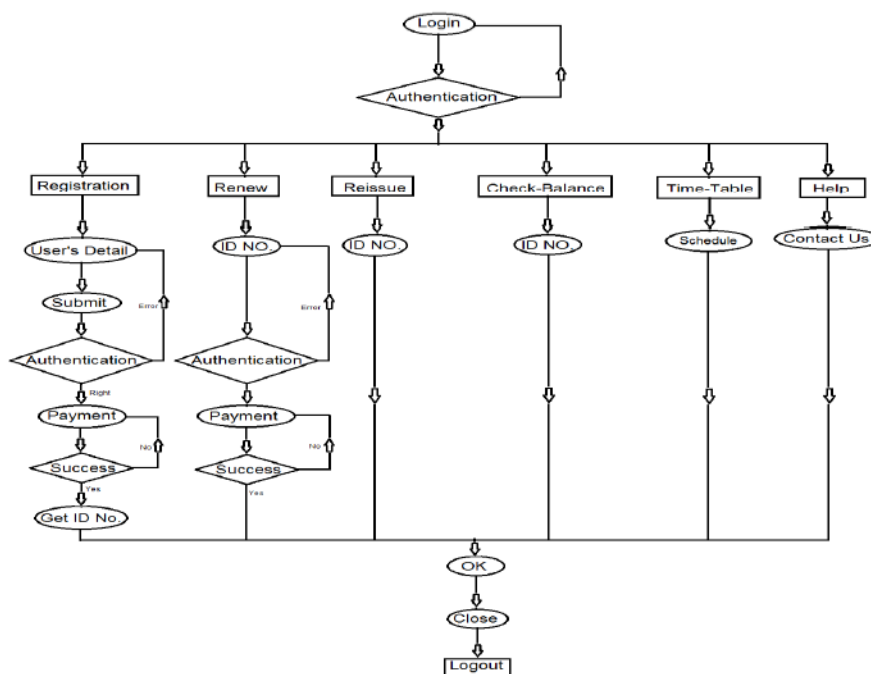


Fig.2. Flow Chart

Admin Case Diagram:

A use case diagram at its simplest is representation of admin's interaction with the system that shows the relationship between the admin and the different use cases in which the user is involved. With the help of this diagram we've assigned appropriate working criteria to the administrator.

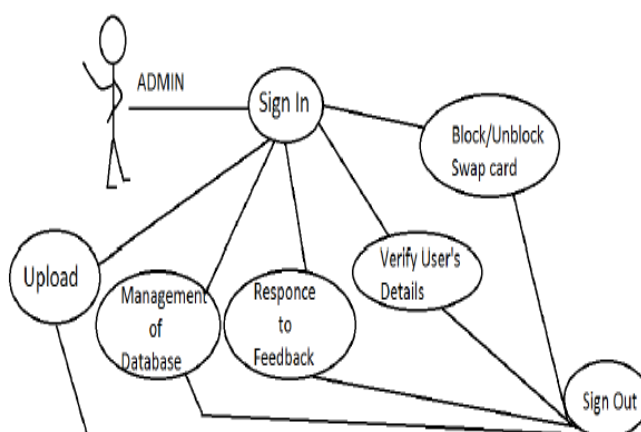


Fig.3. Admin Case Diagram

Use Case Diagram:

A use case diagram at its simplest is representation of user's interaction with the system that shows the relationship between the user and the different use cases in which the user is involved. By this diagram we've represents the functionality of users with system.

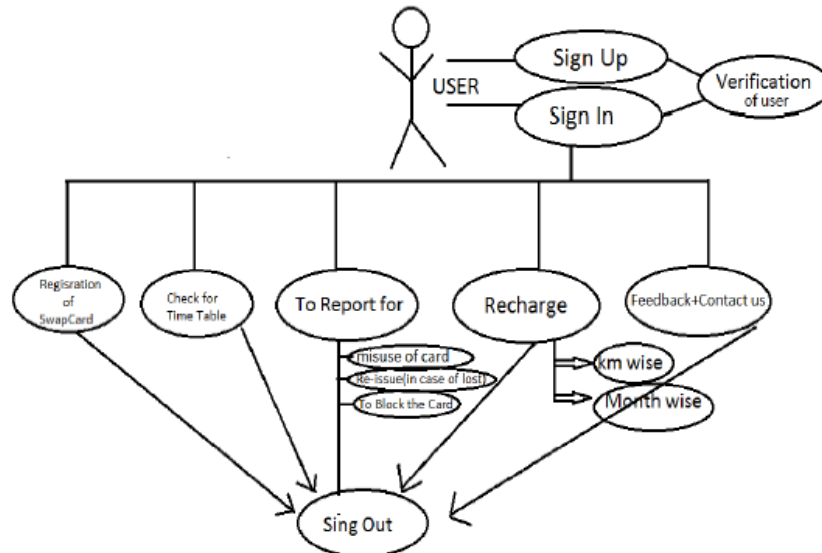


FIG.4.Usecase Diagram

2. Sign Up:



Fig 3.9. Sign Up

3. Registration:



Fig 3.10. Registration

FIG.5. SIGNUP & REGISTRATION

5. Get Schedule:



From Place	Via	To Place	Time
BHUJ	DARBARA	MANDVI	04:00:00
BHUJ	AHMEDABAD	NAVARI	04:05:00
BHUJ	MADHAPAR-BHACHAU	YAPI	19:32:00

Fig.3.12. Get Schedule

6. Bus Pass Generation:



Fig.3.13. Bus Pass Generation

FIG.6. SCHEDULE & BUS-PASS GENERATION

VII. CONCLUSION

After implemented “GO EASY-Online Registration & Information System” system people would feel so easy and comfortable to travel whenever and wherever they want. This is also time saving. Provide more Corporation security than current running system. Passenger has to keep a Bus Pass with him to travel, it contains traveler's balance. This system is very reliable because user can get bus pass online and print at home.

This system will not completely replace the current system but used parallel with the current system. In future when this system is completely developed then travelling becomes much easier and safe.

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