ONLINE BUSPASS ISSUE AND RENEWAL USING SELENIUM

DIVYA R[1], Arunabishek A[2], Joy prasanna S[3], Sridharan R[4], Vinoth K[5]

[1]Assistant Professor, Department of Computer Science and Engineering, JCT College Of Engineering and Technology,

Coimbatore, India

[2-5]Computer Science and Engineering, JCT College Of Engineering and Technology, Coimbatore, India

Abstract: The world today is largely dependent on computers; therefore, not being aware of the tricks of this trade is bound to make a person feel left out. Computers changed the world a lot. It helped man step forward into the future. Thanks to computer, exploration came true, new designs of vehicles and other transportation were made; entertainment became more entertaining, medical science made more cures for diseases, etc. the computers impacted our lives in many ways. They did make life a lot easier. Without computers, world would be a harder place to live in. Thanks to the computer, everyday life is easier for us. This project is proposed for people those who are using public transport for daily commuters in Tamil Nadu. Even though the automobile industry has been developed in India still may of the commuters are depend on public transport which is the budget friendly way in metropolitan cities and college students. But in morning time it is difficult to get a ticket in the crowd. Daily we need a proper chance for our transport. Even bus pass renewal also in manual process. This manual process requires man power and consumes more time. Also, user needs to go bus depot on the particular date and time to apply with required details with in due-date. If they fail to appear with in due-date they can't apply .to avoid such difficulties, this service rectifies those problems. It will help to save their time without standing in a line for hours in counters.

INTRODUCTION

A real-time webserver system of online bus pass application and renewal service has been proposed using web service which helps the students and employees to apply or renewal bus pass through online from anywhere anytime. The bus pass will be differing for different types of users. In this bus pass, all the required details such as candidate name, address, DOB, mail ID, photo identity of the candidate and payment details are provided. In of working organization details will be provided in employees bus pass. The renewal process can be done monthly as per user wish and based on that renewal period amount will be detected.

 In all place websites online mode of process has been evolved but even our daily basis of need, is not been yet. This make the people easier and their ticket form of travel has going to be changed. People can make their ticket (Bus Pass) on monthly basis not even going for depot the get pass through online using websites. This website method of project will be helpful for people those using regular public transport.

The bus pass registration and renewal are still a manual process in Tamil Nadu. On monthly basis the commuters should go to the depot and stand in a queue for long time and get their pass for a month. On that renewal date some people may not be available on that particular time and in getting more complication. To overcome these kinds of difficulties we developed a website.

OBJECTIVE:

Simple system allows the offline bus commuters. this website is then generated as HTML files and graphics that can be uploaded to a web-space. These systems do not use an online database. A high-end solution can be bought or rented as a standalone program

This site gets the user (applicant of bus pass) "name, date of birth, mobile number image

 Source and destination information from the applicant of bus pass and those who are renewing the bus pass. Then the admin will receive the information form the applying candidate and verify the given details is correct and valid or not. If all the given details is satisfied then the admin will approve for the pass for the particular candidate. By using a frame work already existing, software modules for different functionalities required by a web site can be adapted and combined. The end user of this is a bus pass depot counter where the website is hosted on the web and administrator maintains the database. The website which is arranged at the candidate database, the details of the candidate forward from the database for the candidate view based on the selection through citizen, admin and head officer login and amount is created using online transaction.

Data entry into the application can be done through various screens designed for various level of candidate.

Database column user Id-name-password-date of birth-mobile number-email- gender-pass type-image-region-district-depot-source-destination 1-destination 2destination-3-renewal month-money.

SYSTEM ANALYSIS

1.EXISTING SYSTEM

The existing system is intended to overcome the major drawbacks of the currently existing manual system. The features are as follows 1. This online bus pass software system will help students and commuters get bus passes and eliminate the need of standing in queues for passes. Research Article Volume 7 Issue No.5 International Journal of Engineering Science and Computing, May 2017 12571 http://ijesc.org/ 2. Public can find all the bus pass related information along with timetable without going to the bus station. 3. Minimum time is required to process the details submitted and to generate the bus pass. 4. Renewal can be done online with the reference identification that is provided during the registration of the pass

The passengers will apply the bus pass, going to deport counter apply the form manually. Every month will go to deport then renew the pass. So, Passengers time is consuming for this process at every month.

Disadvantages:

➢Consumes more time and Tedious process.

➢User have to wait for a long time in queue to renewal.

2.PROPOSED SYSTEM

The proposed system is intended to overcome the major drawbacks of the currently existing manual system. The features are as follows **1.** This online bus pass software system will help students and commuters get bus passes and eliminate the need of standing in queues for passes. Research Article Volume 7 Issue No.5 International Journal of Engineering Science and Computing, May 2017 12571 http://ijesc.org/ **2.** Public can find all the bus pass related information along with timetable without going to the bus station. **3.** Minimum time is required to process the details submitted and to generate the bus pass. 4. Renewal can be done online with the reference identification that is provided during the registration of the pass.

User can register the application. Then login the application using username and password. User can apply the pass and renew the pass through the login. User will enter details, and then Admin will check and verify the user details. If all details are satisfied then admin will confirm pass, then user will download the report. These are main propose of this project.

Advantage:

➢In this proposed method can rectify all disadvantages of manual work.

➢It will reduce the passenger time at every month renewal.

➢Data Process is Easy to manage.

➢In manual method can renew the document at specific time. But in this system can renew document as anywhere any time.

LITERATURE SURVEY

1.COMMUTERS FULFILLMENT

 This chapter will mainly discuss on the study that are done by previous research of other authors in the similar area of the present study. Throughout practical views of previous studies done in online bus pass issues and renewal in offline in a tedious process. This study combines factors that other studies have done that will make this is such easier way but not the random commuters. Includes the both students and employees.

All of these factors will contribute to the study of other state bus commuters where travelling mode of transport have been verified and find an exact solution for that bus pass issue. In Tamil Nadu the online mode form can get and we need to fill the and handover to the depot

2.PRIVACY AND SECURITY

In some other business websites, there may be issue to cyber-attack but in this case   no profit or unreason for cyber-attack. Only we can pay for our commutes and getting the pass for that. This is daily public dependent passenger issues for

Their way of travelling even-though in western country has been developed a lot in paying their travel charge using but in Tamil Nadu is not have to pay for bus pass in online

PROJECT DESCRIPTION

1.OVERVIEW OF THE PROJECT

Bus pass can be applied only through our manual mode for both students and working profession. At first can register their details in our web services, after registration. So that they can able to access the online bus pass facility. For students and they must login with password and mail Id, after verification they are allowed to send the student's required details (mobile number, photo, source and destination) to make bus pass. Received information are stored in MY SQL database. The generated bus pass will send through post and finally an acknowledgement will get from college or office to make sure of receive.

STUDENTS

An Institution which are allowed 30% travel concession they should submit some required documents to avail the Buss pass. Candidates who came under this category are need to pay amount to our government based on their travel. Transactions are made via reliable way such as credit cards, debit cards or net banking. After completing the transaction process, they will receive their applied bis pass through email (soft copy).

EMPLOYEES

For employees to get their pass, they must provide photocopy of Employee's Id or appointment order of working organization.

OTHERS

If the employee or student applying the pass they need to start applying before month of 25th. After applying, particular candidate can get report monthly once within from 1st day of the month to the 10th day of month. All the data in the database are cleared yearly once and stored in excel sheets.

Lost or stolen bus pass will not be refunded or replaced. Every Bus pass will have unique Id.

SOFTWARE DESCRIPTION

1.HTML:

HTML stands for Hypertext Markup Language. It is used to design web pages using a markup language. HTML is the combination of Hypertext and Markup language. Hypertext defines the link between the web pages. A markup language is used to define the text document within tag which defines the structure of web pages. This language is used to annotate (make notes for the computer) text so that a machine can understand it and manipulate text accordingly. Most markup languages (e.g., HTML) are human-readable. The language uses tags to define what manipulation has to be done on the text. HTML is a markup language used by the browser to manipulate text, images, and other content, in order to display it in the required format. HTML was created by Tim Berners-Lee in 1991. The first ever version of HTML was HTML 1.0, but the first standard version was HTML 2.0, published in 1999.

2.CSS:

CSS stands for Cascading Style Sheets. It is the language for describing the presentation of Web pages, including colours, layout, and fonts, thus making our web pages presentable to the users.CSS is designed to make style sheets for the web. It is independent of HTML and can be used with any XML-based markup language. Now let's try to break the acronym:
Cascading: Falling of Styles
Style: Adding designs/Styling our HTML tags
Sheets: Writing our style in different documents
1994: First Proposed by Hakon Wium Lie on 10th October 1996: CSS was published on 17th November with influencer Bert Bos Later he became co-author of CSS
1996: CSS became official with CSS was published in December
1997: Created CSS level 2 on 4th November
1998: Published on 12th May

3.JAVASCRIPT

JavaScript is a cross-platform, object-oriented scripting language used to make webpages interactive (e.g., having complex animations, clickable buttons, popup menus, etc.). There are also more advanced server-side versions of JavaScript such as Node.js, which allow you to add more functionality to a website than downloading files (such as Realtime collaboration between multiple computers). Inside a host environment (for example, a web browser), JavaScript can be connected to the objects of its environment to provide programmatic control over them. JavaScript contains a standard library of objects, such as Array, Date, and Math, and a core set of language elements such as operators, control structures, and statements. Core JavaScript can be extended for a variety of purposes by supplementing it with additional objects; for example:

Client-side JavaScript extends the core language by supplying objects to control a browser and its Document Object Model (DOM). For example, client-side extensions allow an application to place elements on an HTML form and respond to user events such as mouse clicks, form input, and page navigation.

Server-side JavaScript extends the core language by supplying objects relevant to running JavaScript on a server. For example, server-side extensions allow an application to communicate with a database, provide continuity of information from one invocation to another of the application, or perform file manipulations on a server.

4.Bootstrap:
Bootstrap is a free and open-source tool collection for creating responsive websites and web applications. It is the most popular HTML, CSS, and JavaScript framework for developing responsive, mobile-first websites. It solves many problems which we had once, one of which is the cross-browser compatibility issue. Nowadays, the websites are perfect for all the browsers (IE, Firefox, and Chrome) and for all sizes of screens (Desktop, Tablets, Phablets, and Phones). All thanks to Bootstrap developers -Mark Otto and Jacob Thornton of Twitter, though it was later declared to be an open-source project.
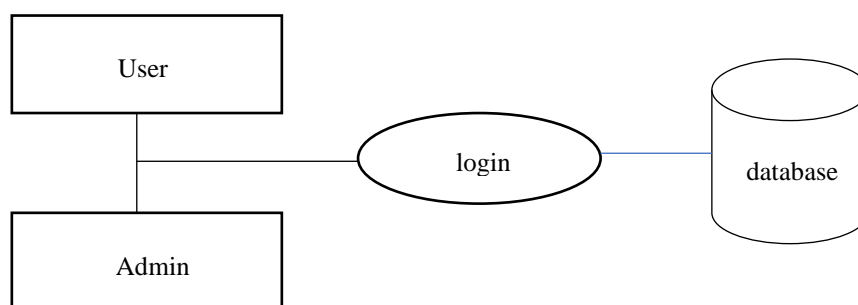
5.Php:
The term PHP is an acronym for PHP: Hypertext Pre-processor. PHP is a server-side scripting language designed specifically for web development. It is opensource which means it is free to download and use. It is very simple to learn and use. The files have the extension "Php". Rasmus Leadoff inspired the first version of PHP and participating in the later versions. It is an interpreted language and it does not require a compiler. PHP code is executed in the server. It can be integrated with many databases such as Oracle, Microsoft SQL Server, MySQL,
PostgreSQL, Sybase, Informix. It is powerful to hold a content management system like WordPress and can be used to control user access. It supports main protocols like HTTP Basic, HTTP Digest, IMAP, FTP, and others. Websites like www.facebook.com, www.yahoo.com are also built on PHP. One of the main reasons behind this is that PHP can be easily embedded in HTML files and HTML codes can also be written in a PHP file. The thing that differentiates PHP from the client-side language like HTML is, PHP codes are executed on the server whereas HTML codes are directly rendered on the browser. PHP codes are first executed on the server and then the result is returned to the browser. The only information that the client or browser knows is the result returned after executing the PHP script on the server and not the actual PHP codes present in the PHP file. Also, PHP files can support other client-side scripting languages like CSS and JavaScript.

6.MySQL:
MySQL is an open-source relational database management system (RDBMS). It is the most popular database system used with PHP. MySQL is developed, distributed, and supported by Oracle Corporation. The data in a MySQL database are stored in tables which consists of columns and rows. MySQL is a database system that runs on a server. MySQL is ideal for both small and large applications. MySQL is very fast, reliable, and easy to use database system. It uses standard SQL MySQL compiles on a number of platforms. PHP 5 and later can work with a MySQL database using: MySQL extension, PDO (PHP Data Objects).
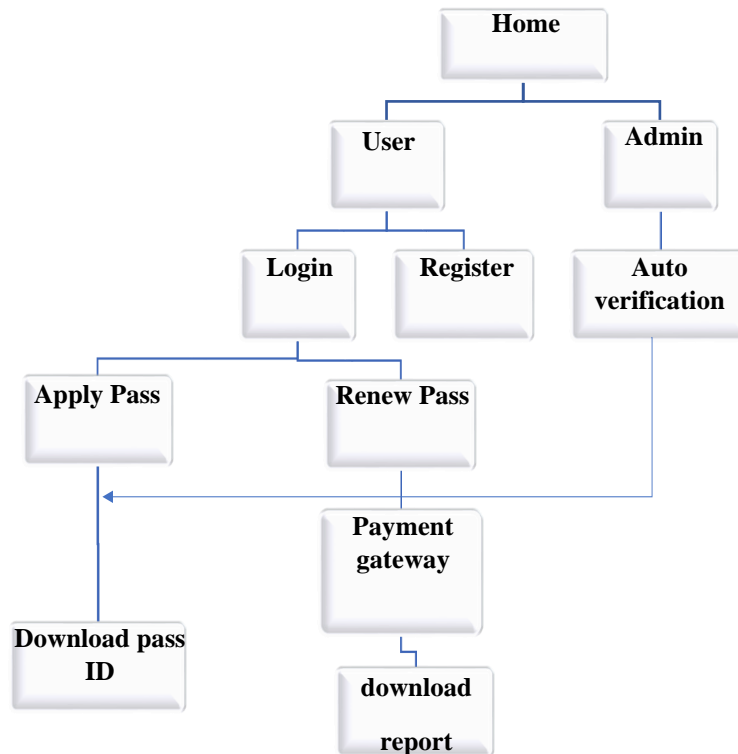
SYSTEM DESING

1.BLOCK DIAGRAM

2.Data Flow diagram:

DATABASE DESING

TABLE 1: USER

Usr001	NAME
Usr002	ID
Usr003	PASSWORD
Usr004	DATE OF BIRTH
Usr005	MOBILE.NO
Usr006	EMAIL
Usr007	GENDER
Usr008	PASSTYPE
Usr009	PHOTO
Usr0010	REGION
Usr0011	DISTRICT
Usr0012	DEPOT
Usr0013	SOURCE
Usr0014	DECINATION1
Usr0015	REQUEST
Usr0016	RENEWAL MONTH
Usr0017	MONEY

TABLE 2: ADMIN

Amn001	USER NAME
Amn002	PASSWORD

CONCLUSION

This project is useful for the students who are facing problems with the current manual process of bus pass registration and renewal. It will send an email for the students before completion of his validity period. We provide two kinds of bus pass instead of earlier service in manual system and employees. One is 30 days bus pass and other is 45 days bus pass. This project has highly secured payment gateway. It is user friendly and very easy to handle with simple implementation. This project stores all the activity of the users in a database and also works in light-weight process. In future we are going to implement QR code service and provide high security with user friendly. Also provide fully automated system like after done the payment bus pass generated automatically and send to the required user mail ID.

REFERENCES

1. K. Ganesh, M. Thrivikraman, J. Kuri, H. Dagale, G. Sudhakar and S. Sanyal, "Implementation of a Real Time Passenger Information System", CoRR abs/1206.0447 (2012).
2. B. Caulfield and M. O'Mahony, "An examination of the public transport information requirements of users", IEEE Transactions on Intelligent Transportation Systems, vol. 8, no. 1, (2007), pp. 21–30. International Conference on Explorations and Innovations in Engineering & Technology (ICEIET - 2016) ISSN: 2348 – 8387 http://www.internationaljournalssrg.org Page 151
3. Development of an Effective Online Bus Pass Generation System for Transportation System for Transportation Service in Karnataka State.
4. Online Bus Pass Generation System for Transportation System for Transportation Service in Andhra Pradesh State. http://online.apsrtcpass.in/ https://pmmodiyojana.in/apsrtc-student-bus-pass/
5. Online Bus Pass Generation System for Transportation System for Transportation Service in Telungana State. https://online.tsrtcpass.in/
6. Baid.A, Rae.I, Li.J, Doan.A, and Naughton.J,(2010) "Toward Scalable Keyword Search over Relational Data," Proc. VLDB Endowment, vol. 3, no. 1, pp. 140-149.
7. Hristidis.V and Papakonstantinou.Y,(2002) "DISCOVER: Keyword Search in Relational Databases," Proc. 28th Int"l Conf. Very Large Data Base (VLDB"02), pp. 670-681.
8. Qin.L, Yu.J.X, and Chang.L, (2009) "Keyword Search in Databases: The Power of RDBMS," Proc. ACM SIGMOD Int"l Conf. Management of Data (SIGMOD "09), pp. 681-694.
9. K. G. Zografos, K. N. Androutsopoulos and V. Spitadakis, "Design and assessment of an online passenger information system for integrated multimodal trip planning", Trans. Intell. Transport. Syst. vol. 10, (2009), pp. 311–323.
10. Kasha K, Abhisek Chowdhury, Keerthana D,A "Survey on Online BusPass Generation System using Aztec code", International Journal ofInnovative Research in Computer and Communication Engineering (An ISO 3297: 2007 Certified Or- ganization) Vol. 4, Issue 2, February 2016