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# An Online Transport Department Portal Using Full Stack Development

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**ABSTRACT:** VVIT Transport Department Portal is a web application for a college transport manager, faculty, and students. It is used to track the no. Of buses are transporting from a particular area and from student and faculty side to know how many buses are assigned for that particular area. VVIT Transport Department Portal is an existing web application but it has some problems like sorting out buses for a particular route, seat shortage, fake data and students missing the buses. So, the efficiency of the existing algorithm is not effective.

VVIT Transport Department Portal will overcome the above problems. It can sort out the no. of buses have to assign for a particular route so that students and faculty never face any seat shortage issue while coming to college or going home. The college transport manager can handle it from anywhere and assign the buses in a digitalized manner. It also creates a student pass card after immediately adding the entry of a student so nobody can give the fake data. Students can see the number of buses assigned to that route especially while exam times bus routes will be changed. We will also display the routes of each bus and live tracks by broadcasting messages with the help of the bus driver.

**KEYWORDS:** Web Application, Digitalized manner, Broadcasting.

## I. INTRODUCTION

Today all the work, at the time of taking transport services of the students is done manually by ink and paper, which is very slow and consumes much effort and time. Since the number of students is growing, and management has to handle records of all the students, it is facing a few problems in maintaining the records of students and other details. It is required to Design a Computerized "Transportation Portal", to speed up and make it easy to use the system. Today all the work, at the time of taking transport services of the students is done manually by ink and paper, which is very slow and consuming much effort and time. Since the number of students is growing, and management has to handle records of all the students, it is facing a few problems in maintaining the records of students and other details. It is required to Design a Computerized "Transportation Portal", to speed up and make it easy to use the system

## II. EXISTINGMETHODS

This website is very easy to operate. It provides a database about College buses. This project has been developed on HTML, JAVASCRIPT and PHP. It has been developed and implemented for regular use by the user. It is very easy to understand and operate. Hence it will be a totally user friendly & interactive website.

- The work is done manually.
- Those who are interested in inquiring about the bus route, its Monthly Cost, available.
- Buses on the route, facility of the buses has to be called and taught to the college transport office. This creates a huge relief for the parents/student who cannot reach home on time.
- can call the driver of the bus or enquiry to the college transport office

### III. PROPOSED METHOD

In our proposed system we have the provision for adding the details of the students. Another advantage of the system is that it is very easy to edit the details of the student and delete a student when it is found unnecessary. Here is a facility to find root, direction, individual profile the facility is also provided, Online updating and changes is possible. By developing the system, we can attain the following facilities:

- Easy to handle and feasible.
- Easy to operate.
- Cost reduction.
- Fast and convenient.

The system is very simple in design and to implement. The system required a very low cost system.

### IV.METHODOLOGY

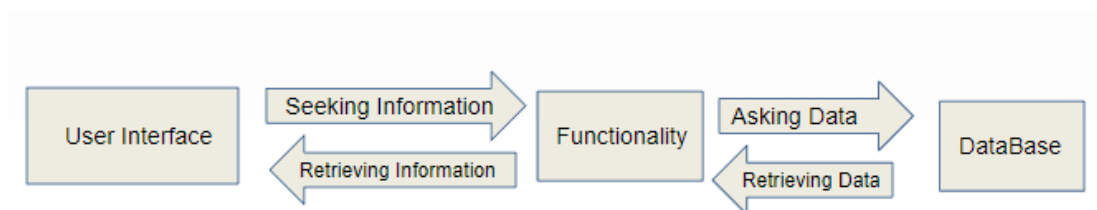


Figure 1: System Design Structure

The user will be logged into the system and will seek the required information through the user interface which is connected to the database via an API, which is responsible for the functionalities sought by the user and retrieve the required information on the user interface. Any type of users in the system can access the system if they only provide valid login details, and in any case, these login details will be provided by the developer, the bus manager, or the bus admin can manage the whole system by making manipulation operations like adding, deleting, modifying, updating etc., The changes that were made by the admin can be reflected in both the user's and drivers page. The user can track the location of the bus such that it gets reflected only when the driver updates the status of the bus location. The admin can issue the bus pass and bus fee payment status and he also can generate an invoice for the user. As it is a full stack web application, any type of users involved in the system can change or update the login credentials. If the session time gets over, the system makes the user to log out automatically, or instead he/she can log out manually.

#### INCLUDED COMPONENTS:

The main actors or components of this VVIT transport department portal are:

1. Admin
2. User
3. Driver

The above three actors play a vital role in the VVIT transport department portal such that they will be having different functionalities to perform. Anyhow, each of the users to get access needs to have valid credentials according to the user to access the VVIT transport department portal.

**TECHNOLOGIES USED:**

FRONT END : HTML ,CSS , BOOTSTRAP , JQUERY , PHP

BACK END : MYSQL

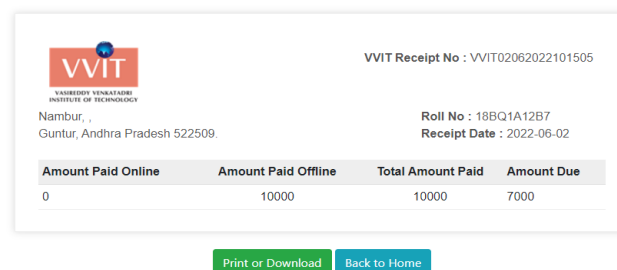
LIBRARY : FPDF

1. HTML is the language for describing the structure of Web pages. HTML gives authors the means to Publish online documents with headings, text, tables, lists, photos, etc.
2. CSS is the language for describing the presentation of Web pages, including colors, layout, and fonts. It allows one to adapt the presentation to different types of devices, such as large screens, small screens, or printers.
3. Bootstrap is a free front-end framework for faster and easier web development Bootstrap includes HTML and CSS based design templates for typography, forms, buttons, tables, navigation, modals, image carousels and many other, as well as optional JavaScript plugins Bootstrap also gives you the ability to easily create responsive designs.
4. JQUERY is a lightweight, "write less, do more" JavaScript library. The purpose of JQUERY is to make it much easier to use JavaScript on your website. JQUERY takes a lot of common tasks that require many lines of JavaScript code to accomplish, and wraps them into methods that you can call with a single line of code.
5. PHP is an acronym for "PHP: Hypertext Preprocessor" and it is a widely-used, open source scripting language. It scripts are executed on the server and it is free to download and use.
6. The data in a MySQL database are stored in tables. A table is a collection of related data, and it consists of columns and rows.
7. FPDF is a PHP class which allows to generate PDF files with pure PHP, that is to say without using the PDFlib library. F from FPDF stands for Free: you may use it for any kind of usage and modify it to suit your needs.

FPDF has other advantages: high level.

## V. RESULTS

Here are some of the screenshots that we have tested and obtained output



The screenshot shows a student invoice from VVIT (Vasireddy Venkatesh Institute of Technology). The invoice includes the following details:

- VVIT Receipt No:** VVIT02062022101505
- Roll No:** 18BQ1A12B7
- Receipt Date:** 2022-06-02
- Address:** Nambur, Guntur, Andhra Pradesh 522509.

Amount Paid Online	Amount Paid Offline	Total Amount Paid	Amount Due
0	10000	10000	7000

At the bottom of the invoice, there are two buttons: "Print or Download" and "Back to Home".

Figure 2: Invoice of student



Figure 3: Bus Pass

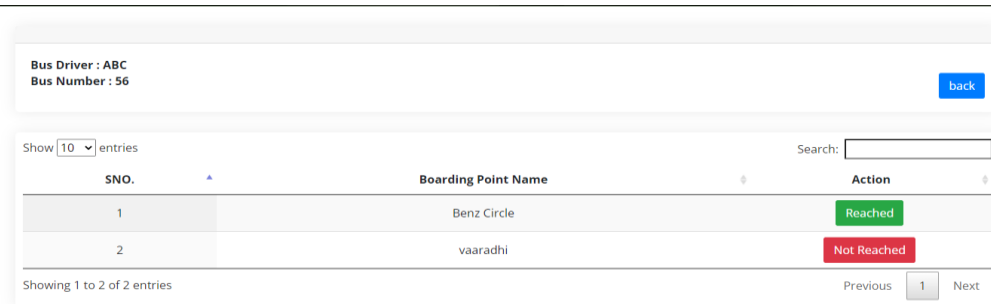


Figure 4: Tracking Bus

## VI. CONCLUSION

The VVIT TRANSPORT DEPARTMENT PORTAL is an application that the admin launches the routes, boarding points and buses for the route and makes updates for the routes and buses. It also adds all information about the driver. The driver can login into the driver login portal and change the active status of the bus and can update the location of bus. The student can login into his portal and able to track the buses which are going through their boarding points and also can change also their boarding points, This will help the shortage of seats and can track the buses.

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