**1. SYNOPSIS**

**1.1 Title of the Project:**

Online Student Bus pass application

**1.2 Introduction:**

Online Student Bus pass application is a web base application which helps the students for applying and renewing the bus pass by online from anywhere instead of going physically to the bus depot.

This system was intended to develop an application for K S R T C to perform functionalities like accessing basic information of a student from educational institutions for authentication and provide bus pass to a particular Student.

**1.3 OBJECTIVE & SCOPE OF PROJECT:**

Online Student Bus Pass application is a web application for students to get bus passes through online.

Before this application implementation the manual process is used to do the process of issuing the Bus pass to the students. This Manual process requires man power and more time consuming. To avoid such difficulties, we implemented this system.

The key components of Online Student Bus Pass application are

 1)Bus pass generation

 2)Bus pass renewal

**1.4 Project category:**

Web application

**1.5 Language to be used:**

Front end: HTML, CSS, Bootstrap, JavaScript

Backend: python

**1.6 Hardware and Software Requirements:**

**1.6.1 Hardware Requirements:**

Processor: Intel Pentium 4 or above

RAM: 4GB

Hard Disk :500GB

**1.6.2 Software Interface:**

Database: MySQL

Framework: Django

Tools used (OS): windows XP and above

**1.7 Structure of the project:**

**1.7.1 Analysis:**

The main purpose of the online Student bus pass application system is to manage the application and renewal of the bus pass. It can be used to manage credentials of the students like Aadhar number, institutions and migration with minimal manual work. This system also stores the details of bus timings available for different route. This system enables the students to submit the documents online, which further can be verified by the administrator online.

**1.7.2 Module description:**

**1.7.2.1 Student view:**

* **Registration**:

Allows students to register their personal details.

* **Login** /**Logout**:

Allows student to login or quit from student window.

* **Home:**

It is the name of the main page of website where students can find hyperlinks to other pages.

* **About** **Us**:

Allow the student to view the description of the website as well as Our team details.

* **View**:

Allows the student to view the bus availability and other details.

* **Apply**:

Allow the students to apply the bus pass.

* **Renewal**:

Allows the student to renewal the previously applied pass.

* **Payment:**

Allow students to make payment for bus pass after approval.

* **Generate Pass**:

Allows the student to view the bus demo pass.

* **Contact** **Us**:

Allow student to have any information details through phone calls and emails.

**1.7.2.2 Admin module:**

* **Login** /**Logout**:

Allows administrator to login or quit from administrator window.

* **Document** **View**:

Allows administrator to view and verify student request.

* **Approve**:

Administrator can approve the student request.

* **Reject**:

Allows administrator to reject the student request.

* **Student** **View**:

Allows administrator to view already approved student details.

* **Original pass**:

Allows the administrator to view and print the bus pass.

**1.8 Limitation of the project:**

**1.8.1 Requires internet access:**

Though internet access is widespread these days, it remains true that one of major disadvantage of online student bus pass application is their reliance on internet connection. In order to apply and renewing through an online student bus pass application, student have need of access to the internet.

**1.9 Future scope and further enhancement of the project:**

It is a real time project which is useful for the students who are facing problems with the current manual work of bus Pass registration and renewal. In the due course of time If the user expects more than what this system provides, i.e. If the new requirements can be easily satisfied by Enhancing the system without making much of changes.

In future we would to like to add some new functionality in our application is given Below:

* This application only Student purpose, so we can still add functionality like office members, travellers and senior citizens.
* According to our work new packages like new Places developed can be added by the admin
* The places and the information relating to the Place can be updated