OUTPASS MANAGEMENT SYSTEM

A project report submitted in partial fulfillment of the requirement for degree of

BACHELOR OF TECHNOLOGY

In

COMPUTER SCIENCE & ENGINEERING

By

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(A.P.Government Act 18 of 2008)

RGUKT-RK Valley

Vempalli, Kadapa, Andhrapradesh-516330.

CERTIFICATE OF PROJECT COMPLETION

This is to certify that I have examined the thesis entitled submitted by K Cherishma (R170158) under our guidance and supervision for the partial fulfillment for the degree of Bachelor of Technology in computer Science and Engineering during the academic session September 2022 – April 2023 at RGUKT-RKVALLEY.

Project Guide

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DECLARATION

I, K Cherishma (R170158) hereby declare thatthe project report entitled “Out pass Management System” done under guidance of Ms P.Udaya Sree is submitted in partial fulfillment for the degree of Bachelor of Technology in Computer Science and Engineering during the academic session September 2022 – April 2023 at RGUKT-RK Valley. I also declare that this project is a result of ourown effort and has not been copied or imitated from any source. Citations from any websites are mentioned in the references. To the best of my knowledge, the results embodied in this dissertation work have not been submitted to any university or institute for the award of any degree or diploma.

K Cherishma (R170158)

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I. TABLE OF CONTENTS

ABSTRACT

Online Outpass Management system project is an intranet Web based application which can be accessed all over the organization. This application is automated software application for handling leaves related Information of students and approval of outpass from the warden. Each student is provided with unique id and password for logging in to system and send request for outpass. Warden will look after the students outpass application. This method will improve the process of Outpass management inside organization by saving time and resources. This project will reduce the paperwork and maintain record in an efficient and systematic way. Warden will view the entire students leave application form details and send the application accepted or rejected through Online Outpass Management System Site.

2. Introduction

The main objective of the proposed system is to decrease the paper work and easier record maintenance by having a particular website for outpass Issuing. An Outpass management system automates the entire process revolved around Outpass within a University, saving time and resources by letting Students focus on the important tasks before them and eliminating the traditional need to record and file leave documents. This approach basically deals with student outpass registering with some specific reason for outpass , with students including their proofs for Outpass in either jpg/png formats The request for outpass will then reflect to the relevant warden for approval, if the leave request is denied, a reason must be entered into the outpass management system and the student can view the status of all current and previous outpasse's history.

2.1 Purpose

The purpose of this Online Outpass System is to Automate the Already Existing Manual Outpass System to reduce Paper Work, and usage of resources, to avoid the loss of data and Making the Outpass Management easy unlike Traditional Manual Outpass Management System. reason must be entered into the outpass management system.

2.2 Intended Audience

1) Students

2) Warden

2.3 Product Vision

The main Vision of this project is to make Traditional paper based Outpass Management Sytem to a Complete Online web application for ease of Usage.

2.4 EXISTING SYSTEMS & PROPOSED SYSTEMS Existing System :

In existing system every college follows manual procedure in which student should enter in time and out time in a record book. The Warden will grant Outpass manually which is a time taking process and there is a chance of losing records.

Proposed System:

In proposed system chances of losing data is not possible because data is maintained in the form of database. Leaves and notices information is updated in to database using a user friendly GUI and grant Outpass. This will reduce work for Wardens. The following methods are used to face recognition.

2.5 REQUIREMENT SPECIFICATION

Hardware Configuration:

Client side:

Ram : 512 MB

Hard disk : 10 GB

Processor :1.0 GHZ

Server Side:

Ram : 1 GB

Hard disk : 20 GB

Processor :2.0 GHZ

Software Requirements:

Front end : Html, Css , Javascript

Server side Language : Flask

Database Server : Arango db

Web Browser : Firebox, Chrome or any compatible browser

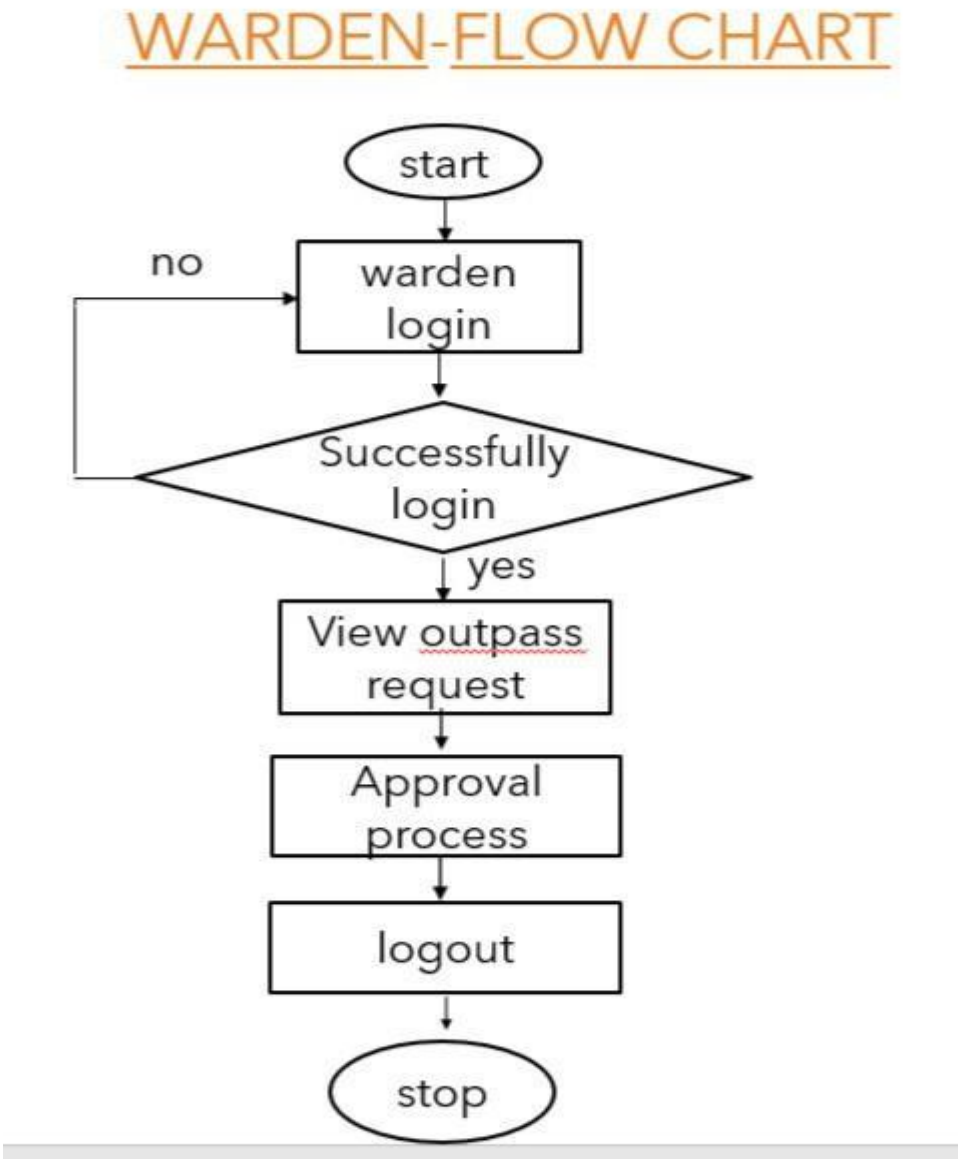
Operating System : Ubuntu, Windows or any compatible os

Software : EPASS

3 Modules

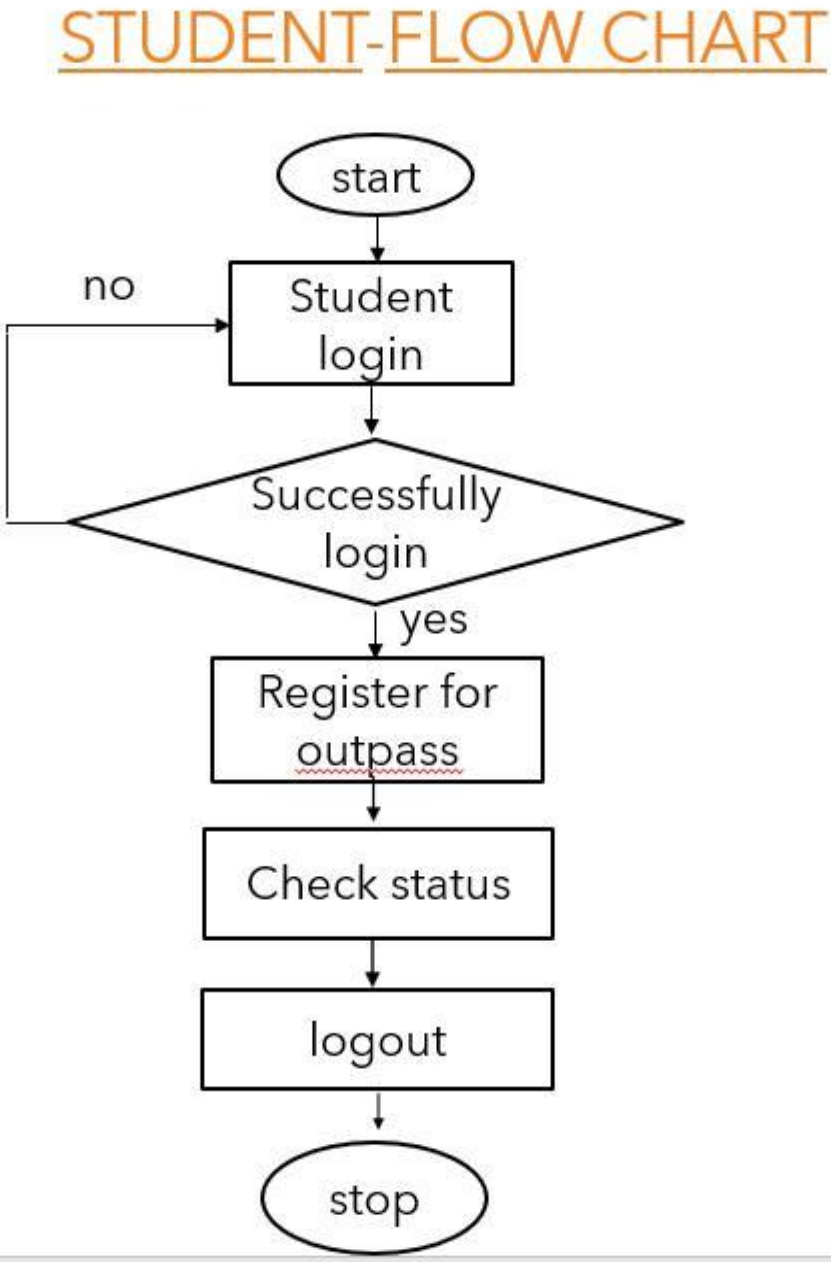
3.1 Warden Module

Warden will have permissions to look after data of every student of the University. Warden can view the student details. Warden can approve leave through this application and he can view leaves information of every individual student. Outpass application accepted/rejected details are send to the faculty and student through the application.



3.2 Student Module

Each student will have unique id for login into the system, login username and password is valid means he/she continue view all the details and can update the previous register details also. The students can apply for their outpass. This record will automatically send to the Warden account. Warden will view all the records and send the confirmation to the particular student through application.



3.3 Approval Process:

This module is very important module in this project. The main aim of this module is to reject or to accept the leave application process of the student. This module is handling by the warden and warden only having all the rights to accept or reject. Warden first of all view the entire student leave application details and view the each student leave reason details for leave. Suppose if the warden is satisfied then Warden will send the approval for outpass through the Outpass Management Website and the Approval or Rejection Status will be visible in the Student Status.

4.TECHNOLOGIES USED

• **FRONTEND**: HTML ,CSS , JavaScript .

• **BACKEND:** FLASK ,ArangoDB.

• **ENVIRONMENT:** Visual Studio Code

HTML:

- HTML, or Hypertext Markup Language, is a markup language for the web that defines the structure of web pages.
- Hypertext: text (often with embeds such as images, too) that is organized in order to connect related items .
- Markup: a style guide for typesetting anything to be printed in hardcopy or soft copy format .
- Language: a language that a computer system understands and uses to interpret commands.

CSS:

Cascading Style Sheets (CSS) is a Style sheet Language used for describing the Presentation of a document written in a markup language such as HTML XML (including XML dialects such as SVG, MathMl or Xhtml). CSS is a cornerstone technology of the World wide web, alongside HTML and Javascript(js).

Javascript:

JavaScript is a dynamic programming language that's used for web development, in web applications, for game development, and lots more. It allows you to implement dynamic features on web pages that cannot be done with only HTML and CSS. JavaScript can be used both in front end and as well as backend.

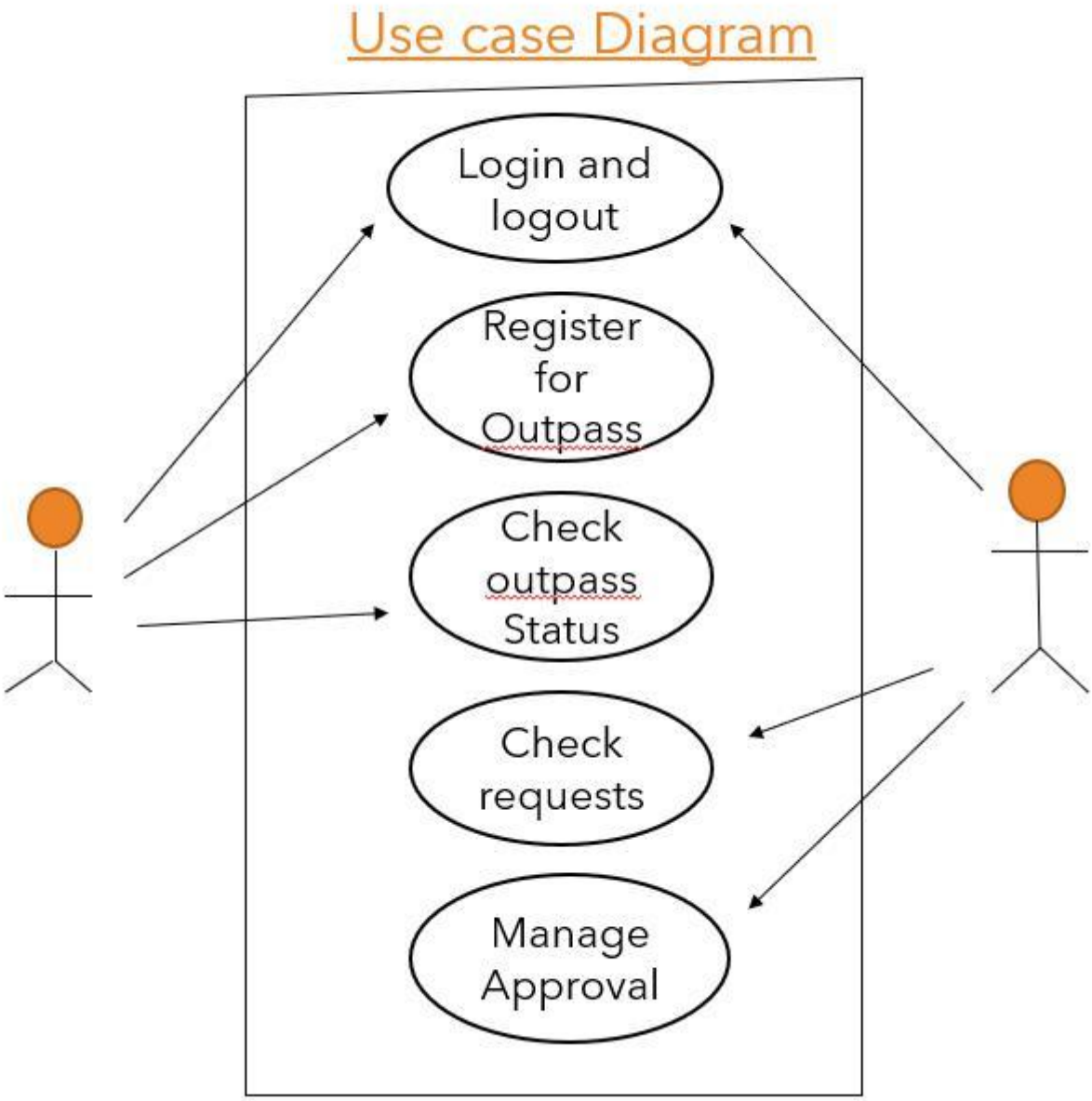
ArangoDB:

ArangoDB is a free and open source native graph database system developed by ArangoDB Inc. ArangoDB is a multi-model database system since it supports three data models (graphs,JSON documents, Key/Value) with one database core and a unified query language AQL (ArangoDB Query Language). AQLis mainly a declarative language and allows the combination of different data access patterns in a single query. ArangoDB is a NOSQL database system but AQL is similar in many ways to the SQL.

FLASK:

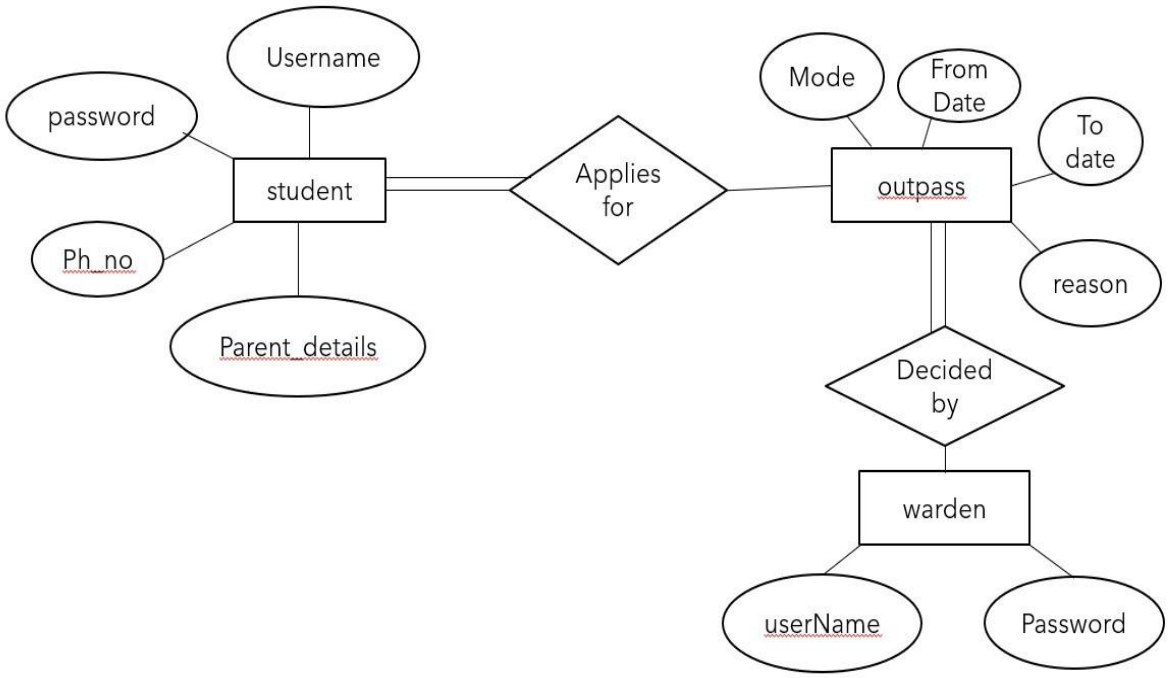
Flask is a small and lightweight Python web framework that provides useful tools and features that make creating web applications in Python easier. It gives developers flexibility and is a more accessible framework for new developers since you can build a web application quickly using only a single Python file.

5. USE CASE DIAGRAM



This use case diagram shows what the user/ student and the warden does in the website.

6.ER DIAGRAM



The ER DIAGRAM shows the what are the attributes (More information) that student and warden has, and the more information contained by the outpass i.e means mode of transporation, from date, to date, reason,which place and so on. It explains more information of the users and their targets.

7.ADVANTAGES

Advantages of Proposed Methodology

- The Online Outpass System will Reduce the Paper work.
- The Online Outpass Management System will reduce the time and Resources.
- It Makes the Maintenance easy.
- Data loss won’t happen, as the Data will stored in the Data Bases.

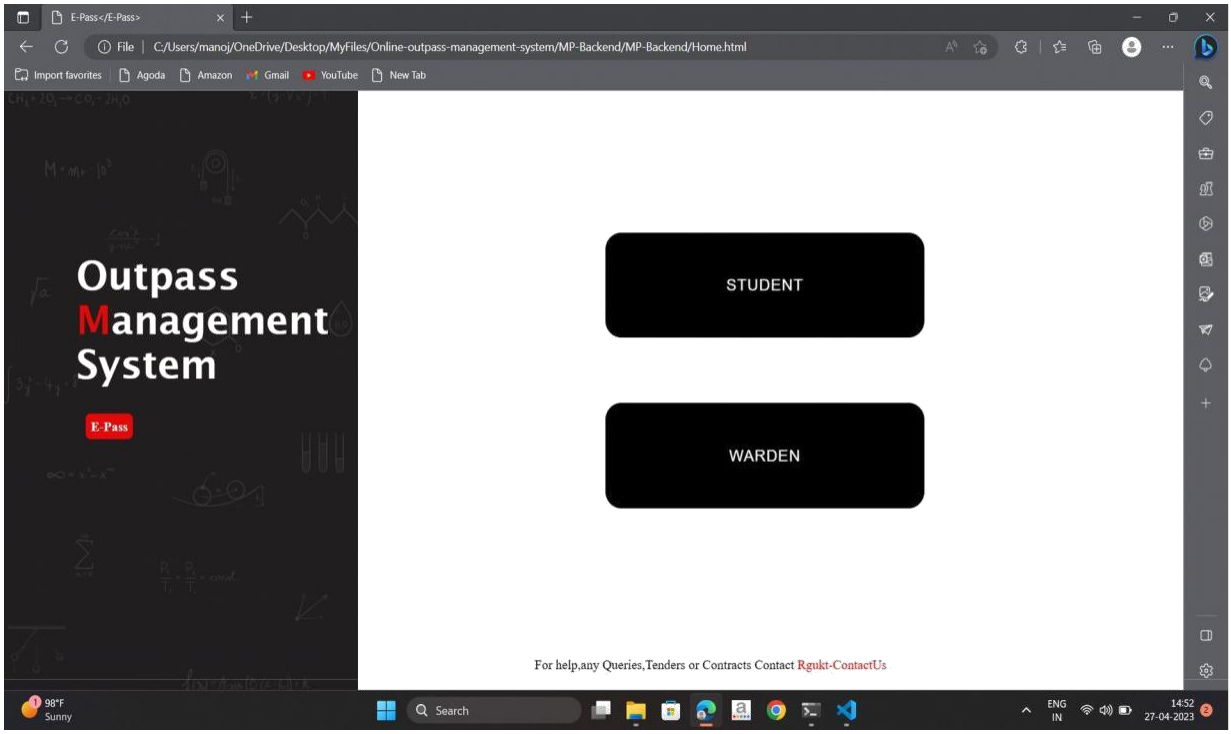
8.SOURCE CODE AND OUTPUT

Home.html

```
<!DOCTYPE HTML>

<html lang="en">
<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>E-Pass</E-Pass></title>
<link rel="stylesheet" href="Home.css">
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.1.1/css/
all.min.css">
</head>
<body>
<div class="main-screen">
<div class="left">
<section class="section-1">
<h1 class="name-header">Outpass <br><label class="name">M</label>anagement <br>
System</h1>
<p class="sub"><label class="sub-name"> E-Pass</label></p>
</section>
</div>
<div class="right">
<form onsubmit="return validate()"action="4-6-21.html">
<div class="input-container-buttion">
<span><a href="Student-login.html"></a></span> <br>
<span class="span1"><a href="Warden-login.html"></a></span>
</div>
</form>
</div>
<div id="footer">
<footer>For help,any Queries,Tenders or Contracts Contact <a
href="https://rguktrkv.ac.in/Institute.php?view=ContactUs" class="alreay"><bold>Rgukt-
ContactUs</bold></a></strong></a>
</footer>
</div>
```

<script src="" type="text/javascript" defer></script> </body> </html>

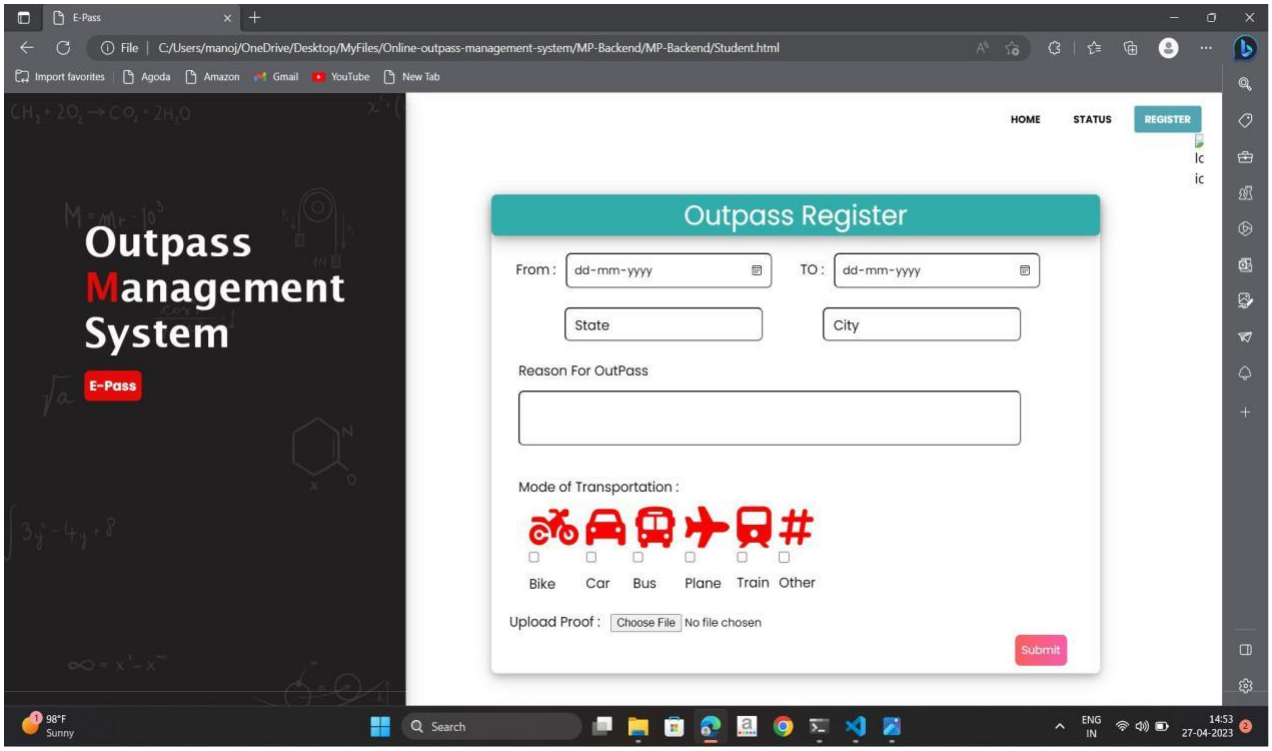


REGIS.JS :

```
window.onload=function(){
console.log("Page is loaded");
console.log("Hello");
const r = document.getElementById('rform');
r.addEventListener ('submit', async function
(e) { e.preventDefault();
var
fd=document.getElementById("fd").value;
var td=document.getElementById("td").value;
var st=document.getElementById("st").value;
var ct=document.getElementById("ct").value;
var rs=document.getElementById("rs").value;
var pf =
document.getElementById("pf").files[0];
console.log(pf)
var md
=document.querySelector('.check:checked').value; const
payload = new FormData();
payload.append("from_date", fd);
payload.append("to_date", td); payload.append("state",
st);
console.log(md)
payload.append("city", ct);
payload.append("reason", rs);
payload.append("mode", md);
payload.append("proof",pf)
payload.append("id_no",localStorage.getItem("user_name"))
var values = [...payload.values()]
console.log(values)
var response = await fetch('http://192.168.43.129:5000/addOutpassRequest', {
method: 'POST',
headers:{
"Authorization":localStorage.getItem("token")
},
body:payload,
})
if (response.ok){
console.log("http s1")
let json=await response.json();
```

```
console.log(json['status'])
console.log(json['requests'][0])
alert("Sucessfully submited")
window.location.replace("Student.html");
}
else{
console.log("http f1")
alert("No Outpass got");}})}
```

Output:



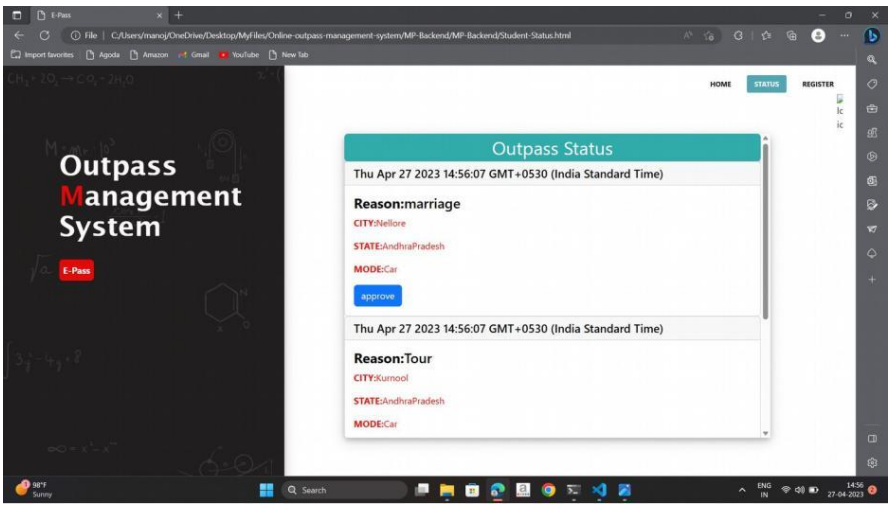
STATUS.JS

```
window.onload=async function(){

console.log("Page is loaded in Status");
console.log("Hello");
//console.log(a,b)
var res=await fetch("http://192.168.43.129:5000/studentStatus",
{
"headers":{"Authorization":localStorage.getItem("token"), },

"method":"POST",
})
var ret=await res.json();
console.log(ret.requests[0].city);
console.log(ret);
//let ele= document.getElementById("city_label").innerHTML=JSON.stringify(ret.requests[0].city);
//console.log(ele);
var table2=document.getElementById("card")
ret.requests.map(data=>{
console.log(data.city);
var temp=`
<div class="card">
<h5 class="card-header">${Date(parseInt(data.applied_date))}</h5> <div
class="card-body">
<h4 class="card-title"><b>Reason:</b>${data.reason}</h4>
<p class="card-text" style="color:red"><b>CITY:</b>${data.city} </p> <p
class="card-text" style="color:red"><b>STATE:</b>${data.state} </p> <p
class="card-text" style="color:red"><b>MODE:</b>${data.mode} </p> <a href="#"
class="btn btn-primary">${data.status}</a>
</div>
</div>
`
table2.innerHTML += temp
});
}
```

Output:



VALIDW.JS

window.onload=function(){

```
console.log("Page is loaded");
console.log("Hello");
console.log("IN warden Login")
const f =
document.getElementById('loginform');
f.addEventListener('submit',async
function(e){ e.preventDefault();
var u
=document.getElementById('name1').value;
var p
=document.getElementById('pass').value;
const payload = new FormData();
payload.append("user_name",u);
payload.append("password",p);

var response = await
fetch('http://192.168.43.129:5000/wardenLogin', { method:
'POST',
body: payload,

})
if (response.ok) { // if HTTP-status is 200-299
//    get the response body (the method explained
below) console.log("http s")
let json = await response.json();
console.log(json['status']);
if(json['status']=="success"){
console.log("if success");
localStorage.setItem("user_name",u);
localStorage.setItem("token",json['to
ken']);
window.location.replace("Warden.ht
ml");
```

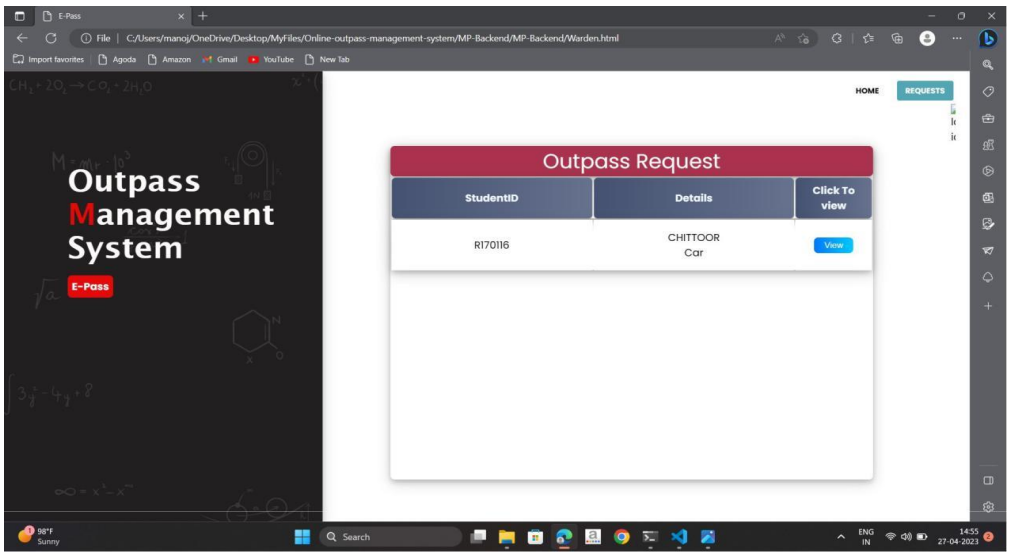
```
}
else{
console.log("if Fail")
alert("Wrong Username or Password");
}
} else {
console.log("http f")
alert("failed to get article by title");
}
function eye()

{var passeye=document.getElementById("pass").type;

if(passeye=="password")
{
document.getElementById("pass").type=
"text"; console.log("Hi 123");
}

else
{
document.getElementById("pass").type="password";
}
}
```

Output:



Conclusion

This web application provides Warden to conduct online outpass management system. It saves time as it allows the students in the University can apply their leave request in their outpass web portal.It is automatically manipulated by the server. Online Leave Management System, being web-based, needs to be throughly tested before implementation to find any security gaps.

Future Enhancement

- An alert message and Mail will be sent to the Parent or Guardian as soon as the Outpass is Accepted by theWarden.

- Has a security Measure for Female students, an instant picture taking mechanism with time stamp will be made. In this mechanism the students parent has to take a picture with attached a time stamp, Parent and student identity will be verified with the already data present in the Data Bases using ML Techniques.

References

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2.https://www.arangodb.com/

3.https://www.javatpoint.com/

4.https://www.geeksforgeeks.org/