\*\*\*\*\*\*\*\*\*\* ATL 1

######registration.php

<?php

session\_start();

if(isset($\_SESSION["user"])){

header("Location: index.php");

}

?>

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Registration Form</title>

<link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css" integrity="sha384-T3c6CoIi6uLrA9TneNEoa7RxnatzjcDSCmG1MXxSR1GAsXEV/Dwwykc2MPK8M2HN" crossorigin="anonymous">

<link rel="stylesheet" href="style.css">

</head>

<body>

<div class="container">

<?php

if (isset($\_POST["submit"])){

$fullName = $\_POST["fullname"];

$email = $\_POST["email"];

$password = $\_POST["password"];

$passwordRepeat = $\_POST["repeat\_password"];

$passwordHash = password\_hash($password, PASSWORD\_DEFAULT);

$errors=array();

if (empty($fullName) OR empty($email) OR empty($password) Or empty($passwordRepeat)){

array\_push($errors,"ALl fields are required");

}

if(!filter\_var($email,FILTER\_VALIDATE\_EMAIL)){

array\_push($errors,"Email is not valid");

}

if (strlen($password)<8){

array\_push($errors,"Password must be atleast 8 characters long");

}

if($password!=$passwordRepeat){

array\_push($errors,"Password does not match");

}

require\_once "database.php";

$sql = "SELECT \* FROM users WHERE email = '$email'";

$result = mysqli\_query($conn,$sql);

$rowCount = mysqli\_num\_rows($result);

if ($rowCount>0){

array\_push($errors,"Email already exists!");

}

if(count($errors)>0){

foreach($errors as $error){

echo "<div class='alert alert-danger'>$error</div>";

}

}else{

$sql = "INSERT INTO users (full\_name, email, password) VALUES (?, ?, ?)";

$stmt=mysqli\_stmt\_init($conn);

$prepareStmt = mysqli\_stmt\_prepare($stmt,$sql);

if($prepareStmt){

mysqli\_stmt\_bind\_param($stmt,"sss",$fullName, $email, $passwordHash);

mysqli\_stmt\_execute($stmt);

echo "<div class='alert alert-success'>You are registered successfully</div>";

}else{

die("Something went wrong");

}

}

}

?>

<form action="registration.php" method="post">

<div class="form-group">

<input type="text" class="form-control" name="fullname" placeholder="Full Name:">

</div>

<div class="form-group">

<input type="email" class="form-control" name="email" placeholder="Email:">

</div>

<div class="form-group">

<input type="password" class="form-control" name="password" placeholder="Password:">

</div>

<div class="form-group">

<input type="password" class="form-control" name="repeat\_password" placeholder="Repeat Password:">

</div>

<div class="form-btn">

<input type="submit" class="btn btn-primary" value="Register" name="submit">

</div>

</form>

</div>

</body>

</html>

################login.php

<?php

session\_start();

if(isset($\_SESSION["user"])){

header("Location: index.php");

}

?>

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Login form</title>

<link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css" integrity="sha384-T3c6CoIi6uLrA9TneNEoa7RxnatzjcDSCmG1MXxSR1GAsXEV/Dwwykc2MPK8M2HN" crossorigin="anonymous">

<link rel="stylesheet" href="style.css">

</head>

<body>

<div class="container">

<?php

if (isset($\_POST["login"])){

$email = $\_POST["email"];

$password = $\_POST['password'];

require\_once "database.php";

$sql = "SELECT \* FROM users WHERE email = '$email'";

$result = mysqli\_query($conn, $sql);

$user = mysqli\_fetch\_array($result,MYSQLI\_ASSOC);

if ($user){

if (password\_verify($password,$user["password"])){

session\_start();

$\_SESSION["user"] = "yes";

header("Location: index.php");

die();

}else{

echo "<div class='alert alert-danger'>Password does not match</div>";

}

}else{

echo "<div class='alert alert-danger'>Email does not match</div>";

}

}

?>

<form action="login.php" method="post">

<div class="form-group">

<input type="email" placeholder="Enter Email:" name="email" class="form-control">

</div>

<div class="form-group">

<input type="password" placeholder="Enter Password:" name="password" class="form-control">

</div>

<div class="form-btn">

<input type="submit" value="Login" name="login" class="btn btn-primary">

</div>

</form>

</div>

</body>

</html>

####index.php

<?php

session\_start();

if(!isset($\_SESSION["user"])){

header("Location: login.php");

}

?>

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>User dashboard</title>

<link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css" integrity="sha384-T3c6CoIi6uLrA9TneNEoa7RxnatzjcDSCmG1MXxSR1GAsXEV/Dwwykc2MPK8M2HN" crossorigin="anonymous">

<link rel="stylesheet" href="style.css">

</head>

<body>

<div class="container">

<h1>Welcome to dashboard</h1>

<a href="logout.php" class="btn btn-warning">logout</a>

</div>

</body>

</html>

####logout.php

<?php

session\_start();

session\_destroy();

header("Location: login.php");

?>

####database.php

<?php

$hostName = "localhost";

$dbUser = "root";

$dbPassword = "";

$dbName = "login\_register";

$conn = mysqli\_connect($hostName, $dbUser, $dbPassword, $dbName);

if(!$conn){

die("Something went wrong");

}

?>

####style.css

body{

padding:100px;

}

.container{

max-width:600px;

margin:20 auto;

box-shadow:rgba(100,100,111,0.2) 0px 7px 29px 0px;

padding:30px 30px 30px 30px;

}

.form-group{

margin-bottom:30px;

}

\*\*\*\*\*\*\*\*\*\*\*\*\*ATL 2

ATL LAB 2

!pip install easyocr

!pip install imutils

import cv2

from matplotlib import pyplot as plt

import numpy as np

import imutils

import easyocr

img = cv2.imread('/content/Cars116.png')

gray = cv2.cvtColor(img, cv2.COLOR\_BGR2GRAY)

plt.imshow(cv2.cvtColor(gray, cv2.COLOR\_BGR2RGB))

bfilter = cv2.bilateralFilter(gray, 11, 17, 17)

edged = cv2.Canny(bfilter, 30, 200)

plt.imshow(cv2.cvtColor(edged, cv2.COLOR\_BGR2RGB))

keypoints = cv2.findContours(edged.copy(), cv2.RETR\_TREE, cv2.CHAIN\_APPROX\_SIMPLE)

contours = imutils.grab\_contours(keypoints)

contours = sorted(contours, key=cv2.contourArea, reverse=True)[:10]

location = None

for contour in contours:

approx = cv2.approxPolyDP(contour, 10, True)

if len(approx) == 4:

location = approx

break

location

mask = np.zeros(gray.shape, np.uint8)

new\_image = cv2.drawContours(mask, [location], 0, 255, -1)

new\_image = cv2.bitwise\_and(img, img, mask=mask)

plt.imshow(cv2.cvtColor(new\_image, cv2.COLOR\_BGR2RGB))

(x,y) = np.where(mask==255)

(x1, y1) = (np.min(x), np.min(y))

(x2, y2) = (np.max(x), np.max(y))

cropped\_image = gray[x1:x2+1, y1:y2+1]

plt.imshow(cv2.cvtColor(cropped\_image, cv2.COLOR\_BGR2RGB))

reader = easyocr.Reader(['en'])

result = reader.readtext(cropped\_image)

result

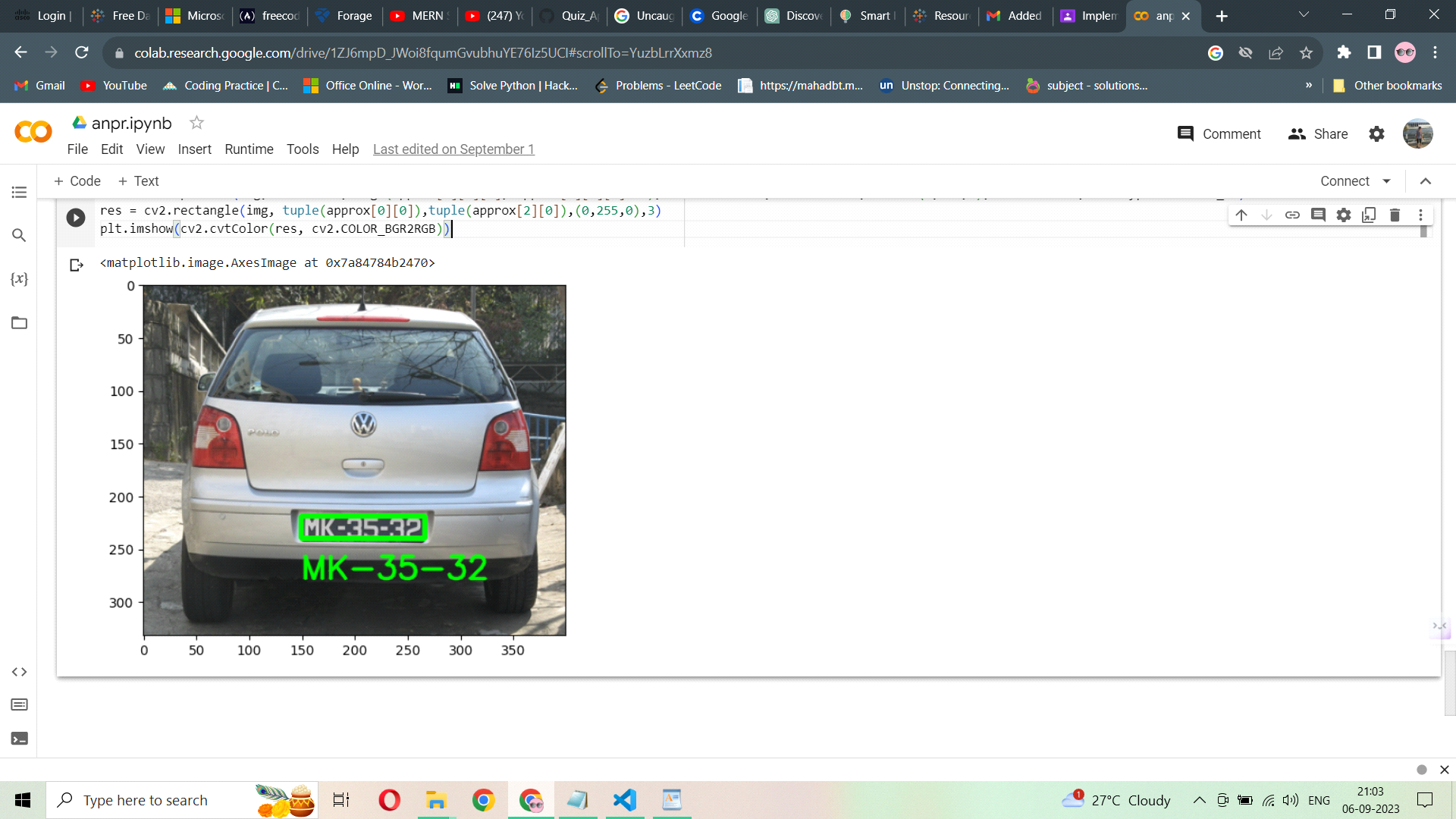
text = result[0][-2]

font = cv2.FONT\_HERSHEY\_SIMPLEX

res = cv2.putText(img, text=text, org=(approx[0][0][0], approx[1][0][1]+60), fontFace=font, fontScale=1, color=(0,255,0), thickness=2, lineType=cv2.LINE\_AA)

res = cv2.rectangle(img, tuple(approx[0][0]),tuple(approx[2][0]),(0,255,0),3)

plt.imshow(cv2.cvtColor(res, cv2.COLOR\_BGR2RGB))



\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*ATL 3

library(shiny)

library(shinythemes)

ui <- fluidPage(theme = shinytheme("cerulean"),

navbarPage(

"My first app",

tabPanel("Navbar 1",

sidebarPanel(

tags$h3("Input:"),

textInput("txt1", "Given Name:", ""),

textInput("txt2", "Surname:", "")

), # sidebarPanel

mainPanel(

h1("Header 1"),

h4("Output 1"),

verbatimTextOutput("txtout")

) # mainPanel

), # Navbar 1, tabPanel

tabPanel("Navbar 2", "This panel is intentionally left

blank"),

tabPanel("Navbar 3", "This panel is intentionally left

blank")

) # navbarPage

)

server <- function(input, output) {

output$txtout <- renderText({

paste( input$txt1, input$txt2, sep = " " )

})

}

shinyApp(ui = ui, server = server)