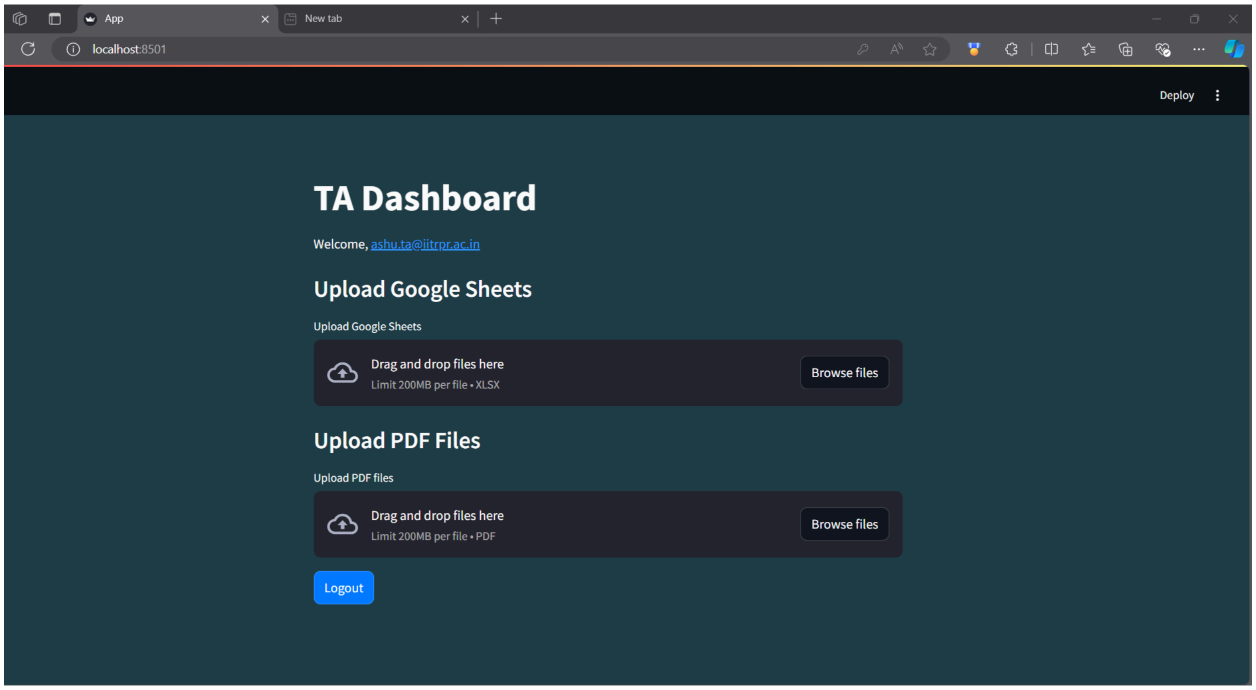
Peer Evaluation System UI/UX

Sample Screenshots of the UI/UX design: -

- The changes from the today's code are reflected below: -



TA Dashboard

Welcome, ashu.ta@iitrpr.ac.in

Upload Google Sheets

Upload Google Sheets

Drag and drop files here
Limit 200MB per file • XLSX

Browse files

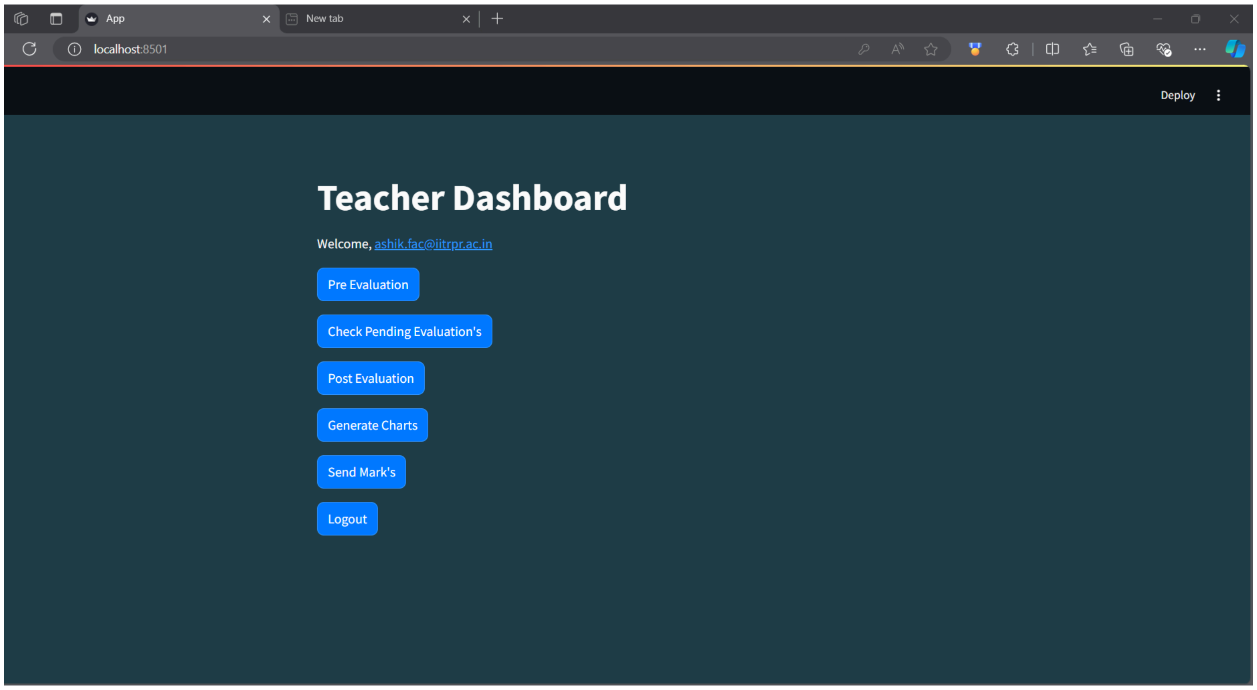
Upload PDF Files

Upload PDF files

Drag and drop files here
Limit 200MB per file • PDF

Browse files

Logout



Teacher Dashboard

Welcome, ashik.fac@iitrpr.ac.in

Pre Evaluation

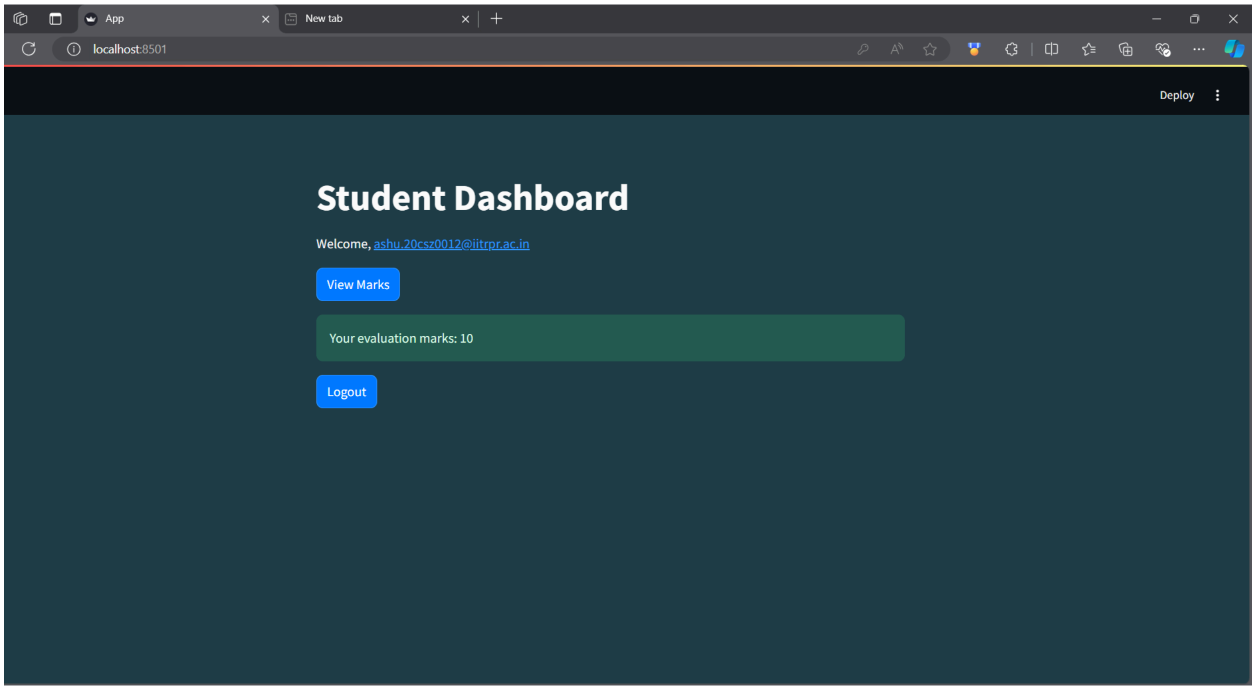
Check Pending Evaluation's

Post Evaluation

Generate Charts

Send Mark's

Logout



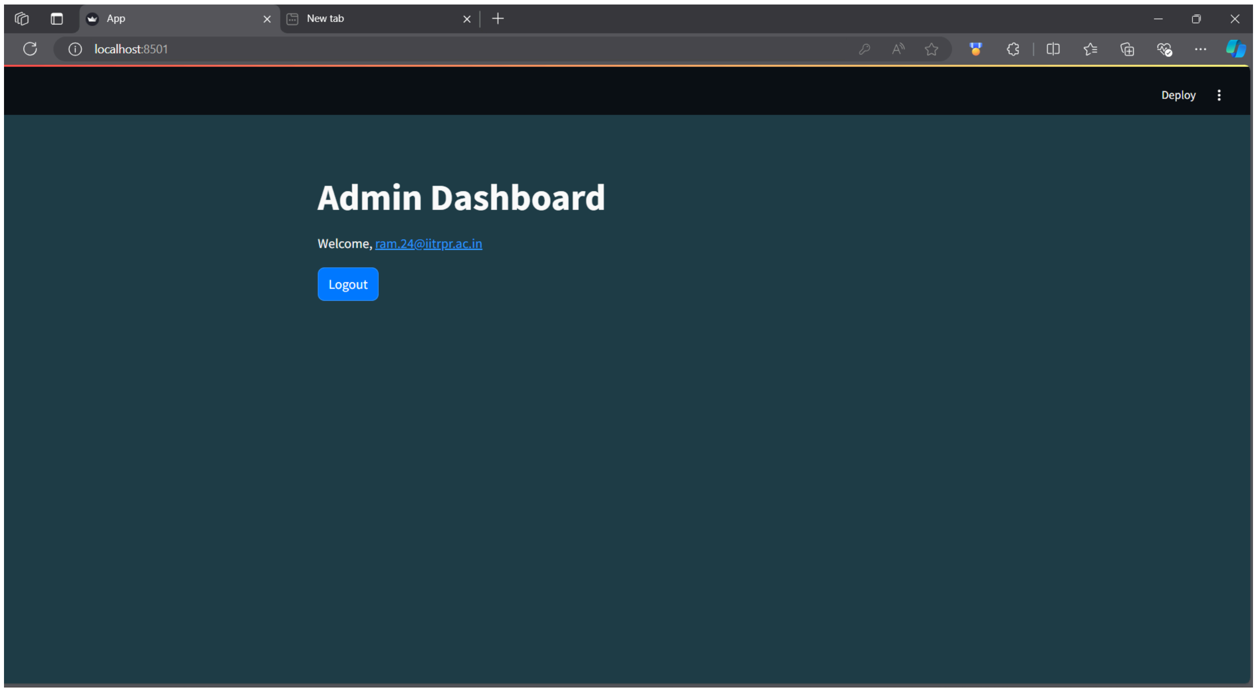
Student Dashboard

Welcome, ashu.20csz0012@iitrpr.ac.in

View Marks

Your evaluation marks: 10

Logout



Admin Dashboard

Welcome, ram.24@iitrpr.ac.in

Logout

Code: -

1. **Python: -**

```
import streamlit as st
import gspread
from oauth2client.service_account import ServiceAccountCredentials
from googleapiclient.discovery import build
from googleapiclient.http import MediaIoBaseUpload
import requests


# Google Sheets and Google Drive setup
SCOPE = [
  "https://spreadsheets.google.com/feeds",
  "https://www.googleapis.com/auth/drive"
]
CREDENTIALS_FILE = "D:/ROHIT IIT/Peer
Evaluation/peer-evaluation-sem1-e2fcf8b5fc27.json"
SHEET_NAME = "UserRoles"


# Initialize connection to Google Sheets
def connect_to_google_sheets():
  creds = ServiceAccountCredentials.from_json_keyfile_name(CREDENTIALS_FILE,
SCOPE)
  client = gspread.authorize(creds)
  sheet = client.open(SHEET_NAME).sheet1
  return sheet


# Google Drive authentication
def authenticate_drive():
  creds = ServiceAccountCredentials.from_json_keyfile_name(CREDENTIALS_FILE,
SCOPE)
  service = build('drive', 'v3', credentials=creds)
  return service
```

```
# Fetch users from Google Sheets
def get_users_from_sheets():
  sheet = connect_to_google_sheets()
  records = sheet.get_all_records()
  return records


# Add new user to Google Sheets
def register_user(username, password, role):
  sheet = connect_to_google_sheets()
  new_user = [username, password, role]
  sheet.append_row(new_user)


# Verify user credentials
def login(username, password, users):
  for user in users:
     if user['username'] == username and user['password'] == password:
        st.session_state["login_status"] = True
        st.session_state["role"] = user["role"]
        st.session_state["username"] = username
        st.session_state["page"] = "dashboard"
        st.session_state["message"] = None
        return
  st.session_state["message"] = "Incorrect username or password"


# Logout function
def logout():
  st.session_state["login_status"] = False
  st.session_state["role"] = None
  st.session_state["username"] = None
  st.session_state["page"] = "login"
  st.session_state["message"] = "Logged out successfully"


def trigger_google_apps_script(function_name):
  web_app_url =
"https://script.google.com/macros/s/AKfycbwlBil062YhNYcbIqmP9obfLBKgoeIdTdRD
```

```
Q_BOB4rF1S6JhTxvVFH8MhW2x84bgyAVag/exec"  # Replace with your web app
URL
   url = f"{web_app_url}?action={function_name}"  # Append the function name as the
'action' parameter
   try:
       response = requests.get(url)
       if response.status_code == 200:
           st.success(f"{function_name} executed successfully!")
       else:
           st.error(f"Failed to execute {function_name}. Status code:
{response.status_code}")
   except Exception as e:
       st.error(f"An error occurred: {str(e)}")


def admin_dashboard():
  st.title("Admin Dashboard")
  st.write("Admins can manage everything.")

def teacher_dashboard():
  st.title("Teacher Dashboard")
  if st.button("Pre Evaluation"):
      trigger_google_apps_script("PreEval")

  if st.button("Check Pending Evaluation's"):
      trigger_google_apps_script("CheckEval")

  if st.button("Post Evaluation"):
      trigger_google_apps_script("PostEval")

      # Button to trigger Function 2
  if st.button("Generate Charts"):
      trigger_google_apps_script("GenChart")

  if st.button("Send Mark's"):
      trigger_google_apps_script("SendMail")



# Function to check if a file already exists in Google Drive folder
```

```
def file_exists(drive_service, folder_id, file_name):
  query = f"'{folder_id}' in parents and name='{file_name}'"
  results = drive_service.files().list(q=query, spaces='drive', fields='files(id,
name)').execute()
  files = results.get('files', [])
  return any(file['name'] == file_name for file in files)


# Function to upload PDF files to Google Drive
def upload_pdfs(uploaded_files, folder_id):
  drive_service = authenticate_drive()
  count = 0

  for uploaded_file in uploaded_files:
      if file_exists(drive_service, folder_id, uploaded_file.name):
          #st.warning(f"PDF file '{uploaded_file.name}' already exists in the folder.")
          continue

      file_metadata = {
          'name': uploaded_file.name,
          'parents': [folder_id]
      }
      media = MediaIoBaseUpload(uploaded_file, mimetype='application/pdf')
      drive_service.files().create(body=file_metadata, media_body=media,
fields='id').execute()
      count = count + 1
      #st.session_state["success_message"] = f"Uploaded PDF file '{uploaded_file.name}'
to Google Drive"

  st.success(f" The {count} files are uploaded to the Google Drive.")


# Function to upload Google Sheets files to Google Drive
def upload_sheets(uploaded_files, folder_id):
  drive_service = authenticate_drive()

  for uploaded_file in uploaded_files:
      if file_exists(drive_service, folder_id, uploaded_file.name):
          #st.warning(f"Google Sheet file '{uploaded_file.name}' already exists in the
folder.")
```

```
            continue

        file_metadata = {
            'name': uploaded_file.name,
            'parents': [folder_id],
            'mimeType': 'application/vnd.google-apps.spreadsheet'
        }
        media = MediaIoBaseUpload(uploaded_file, mimetype='application/vnd.ms-excel')
        drive_service.files().create(body=file_metadata, media_body=media,
fields='id').execute()

    st.success("The Excel sheet has been uploaded to the Google Drive.")


# Role-based content: Teacher Dashboard with multiple file uploads
def ta_dashboard():
    st.title("TA Dashboard")

    # Folder ID for the Google Drive folder where the files will be saved
    folder_id = "1fT-inciLQut85BGEQrjMSWbVRcTsdWfQ"  # Replace this with your
folder ID

    # Allow file upload for multiple Google Sheets
    st.subheader("Upload Google Sheets")
    sheet_files = st.file_uploader("Upload Google Sheets", type=["xlsx"],
accept_multiple_files=True,
                                   key="sheet_uploader")

    if sheet_files:
        upload_sheets(sheet_files, folder_id)

    # Allow file upload for multiple PDFs
    st.subheader("Upload PDF Files")
    pdf_files = st.file_uploader("Upload PDF files", type=["pdf"],
accept_multiple_files=True, key="pdf_uploader")

    if pdf_files:
        upload_pdfs(pdf_files, folder_id)
```

```
# Helper function to connect to a specific Google Sheet
def connect_to_google_sheets_with_name(sheet_name):
   creds = ServiceAccountCredentials.from_json_keyfile_name(CREDENTIALS_FILE,
SCOPE)
   client = gspread.authorize(creds)
   sheet = client.open(sheet_name)
   return sheet


def get_marks_from_peer_eval(username):
   # Connect to the specific Google Sheet containing marks
   sheet_name = "UI/UX Copy of Peer Evaluation2"
   sheet = connect_to_google_sheets_with_name(sheet_name)  # Modify to accept a sheet
name
   peer_eval_sheet = sheet.worksheet('PeerEval')  # Open the "PeerEval" sheet

   # Fetch all the data from the "PeerEval" sheet
   records = peer_eval_sheet.get_all_records()

   # Find marks for the current user
   for record in records:
      if record['EMail ID'] == username:  # Ensure this matches your column name
         return record['Average Marks']  # Assuming there's a column named 'Marks'

   return None  # If no marks found for the user


def student_dashboard():
   st.title("Student Dashboard")
   st.write(f"Welcome, {st.session_state['username']}")

   # Button to trigger fetching the marks
   if st.button("View Marks"):
      # Fetch and display marks from the PeerEval sheet
      marks = get_marks_from_peer_eval(st.session_state["username"])

      if marks:
         st.success(f"Your evaluation marks: {marks}")
      else:
         st.warning("No marks found for your account.")
```

```
# Main Streamlit app
def main():
    # Initialize session state variables if not present
    if "login_status" not in st.session_state:
        st.session_state["login_status"] = False
    if "role" not in st.session_state:
        st.session_state["role"] = None
    if "username" not in st.session_state:
        st.session_state["username"] = None
    if "page" not in st.session_state:
        st.session_state["page"] = "login"
    if "message" not in st.session_state:
        st.session_state["message"] = None
    if "success_message" not in st.session_state:
        st.session_state["success_message"] = None

    # Set background color and input field styling using HTML
    st.markdown(
        """
        <style>
        .stApp {
            background-color: #1f3f49;  /* Light blue background */
        }
        .stTextInput>div>input, .stPasswordInput>div>input {
            background-color: white;  /* White background for text and password inputs */
            color: black;  /* Text color for input fields */
        }
        .stButton>button {
            background-color: #007bff;  /* Optional: Style buttons with a color */
            color: white;
        }
        </style>
        """,
        unsafe_allow_html=True
    )

    # Page routing based on session state
```

```
  if st.session_state["page"] == "login":
    st.title("Peer Evaluation System")

    # Tabs for Login and Registration
    tab1, tab2 = st.tabs(["Login", "Register"])

    with tab1:
      st.header("Login")

      with st.form(key='login_form'):
        username = st.text_input("Username")
        password = st.text_input("Password", type="password")
        submit_button = st.form_submit_button("Login")

        if submit_button:
          users = get_users_from_sheets()
          login(username, password, users)
          if st.session_state["login_status"]:
            st.rerun()

    with tab2:
      st.header("Register")

      with st.form(key='register_form'):
        reg_username = st.text_input("Username", key='reg_username')
        reg_password = st.text_input("Password", type="password",
key='reg_password')
        role = st.selectbox("Role", ["Admin", "Teacher", "TA", "Student"])
        register_button = st.form_submit_button("Register")

        if register_button:
          if not reg_username.endswith("@iitrpr.ac.in"):
            st.error("Username must end with @iitrpr.ac.in")
          else:
            users = get_users_from_sheets()
            if any(user['username'] == reg_username for user in users):
              st.error("Username already exists")
            else:
              register_user(reg_username, reg_password, role)
              st.success("User registered successfully")
```

```
                    # Redirect to the login page
                    st.session_state["page"] = "login"
                    st.rerun()

    elif st.session_state["page"] == "dashboard":
        if st.session_state["role"] == "Admin":
            admin_dashboard()
        elif st.session_state["role"] == "Teacher":
            teacher_dashboard()  # Updated function for Teacher Dashboard
        elif st.session_state["role"] == "TA":
            ta_dashboard()
        elif st.session_state["role"] == "Student":
            student_dashboard()

        # Logout button
        if st.button("Logout"):
            logout()
            st.rerun()


if __name__ == "__main__":
    main()
```

2. **Appscript: -**

```
function onOpen()
{

  var ui = SpreadsheetApp.getUi();
  ui.createMenu('Peer Evaluation')
    .addItem('Pre Evaluation', 'runMainPreEval')
    .addItem('Check Evaluation\'s Pending', 'runCheckEval')
    .addItem('Post Evaluation', 'runMainPostEval')
    .addItem('Generate Charts', 'generateCharts')
    .addItem('Send Marks','runSendMail')
    .addToUi();
}
```

```
var source_folder = "1fT-inciLQut85BGEQrjMSWbVRcTsdWfQ";
var target_folder = "1l4z7x3Twah6Qd8LQUepZHvmR0tYlY5cj";
var students_per_batch = countStudentsPerBatch();
var num_Questions = 1;

function countStudentsPerBatch()
{
  var folderId = source_folder;  // Replace with your folder's ID
  var folder = DriveApp.getFolderById(folderId);  // Get the folder by ID
  var files = folder.getFiles();  // Get all files in the folder

  var fileCount = 0;
  var students_per_batch = 0;

  while (files.hasNext())
{
    files.next();
    fileCount++;
  }

  students_per_batch = Math.floor(Math.sqrt(fileCount));

  // Log or return the count of files
  Logger.log('Students per Batch are: ' + students_per_batch);

  return students_per_batch;

}


function doGet(e)
{
  var action = e.parameter.action;  // Get the 'action' parameter from the URL
  if (action == "PreEval")
  {
    return runMainPreEval();
  }
  else if (action == "CheckEval")
  {
    return runCheckEval();
```

```
 }
 else if (action == "PostEval")
 {
  return runMainPostEval();
 }
 else if (action == "GenChart")
 {
  return generateCharts();
 }
 else if (action == "SendMail")
 {
  return runSendMail();
 }
 else
 {
  return ContentService.createTextOutput("Invalid function call.");
 }
}

function runMainPreEval()
{
 // Calling the mainPreEval to run all the necessary functions

 mainPreEval(source_folder, target_folder, students_per_batch, num_Questions);
}

function runCheckEval()
{
 //Call the function from Eval Check.gs to check for the peer's who don't evaluated the
sheets yet
 evalMarksInSheets();
 emailPeerPendingEval();
}

function runMainPostEval()
{
 // Calling the mainPreEval to run all the necessary functions
 mainPostEval(num_Questions);
}
```

```
function generateCharts()
{
  // Call the function from Graph.gs to generate charts
  runAllChartFunctions();
}

function runSendMail()
{
  //Call the function from Mail.gs to send the final mark's of each student
  sendMailToAllStudents();
}
```