PROJECT NO.5

RESEARCH PRACTISE MANAGEMENT PORTAL

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DOCUMENTATION

INTRODUCTION

The research practice management portal shows clear information about the different research projects by different faculty of all departments . It gives the overall information of the professors in each department like their name, id, position, research interests, and their personal website. It also shows the list of projects professors are working on or going to work and project details which include the project name , project id, project description, project field, project status ,number of current applicants.

The research practice management portal helps the user to go through the database and allows the user to apply for their dream project under the professor's guidance. User can click the apply now button in the project table for the application purpose .Project status helps the user find whether the project need anymore applicants are not

Recruiting means the professor is recruiting the students for the project .Ongoing means the recruiting process is done and the project basically started. Completed means the project is done.

SYSTEM REQUIREMENT SEPCIFICATIONS(SRS)

The code is mainly written in Python. Django is used as the backend framework and MySQL is the database. The frontend is a culmination of templates using HTML, CSS, Javascript facilitated by Bootstrap.

Given below is the list extracted from the virtual environment and contents of requirements.txt .

Django==4.0.4

asgiref==3.5.0

mysqlclient==2.1.0

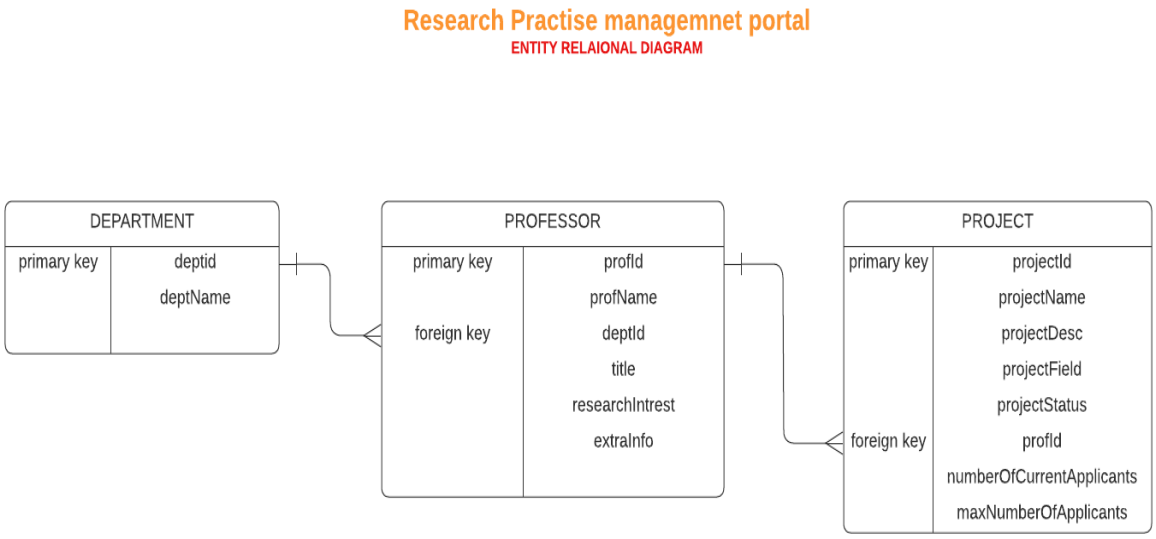
sqlparse==0.4.2

tzdata==2022.1

To setup PC, please install pip and use the command pip install –r requirements.txt.

Or setup python, Django and MySQL client using online resources.

ENTITY RELATIONAL DIAGRAM



SCHEMA DESIGN

The above entity relationship diagram can be converted to the below schema design

portal_department(deptId,deptName)

portal_professor(profId,profName,deptId,title,researchInterest, extrainfo)

portal_ project(projectId,projectName,projectDesc, projectField,projectStatus,profId,numberOfCurrentParticipants, maxNumberOfApplicants)

DATA NORMALIZATION

portal_department(deptId, deptName)

portal_professor(profId, profName, title, researchInterest, extrainfo)

portal_project(projectId, projectName, projectDesc, projectField, projectStatus ,numberOfCurrentParticipants, maxNumberOfApplicants)

Dept_prof (profId, deptId)

Proj_prof (projectId, profId)

TABLES

We used 3 tables

(i)department table

(ii)professor table

(iii)project table