

CS355 Project

Submitted by:

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R&D IIT Patna : <http://localhost:8001/>

Features:

Editing Database(**require admin access**)

- **Add a new faculty:**

Inputs: Faculty ID(unique ID assigned to each faculty), Name, department, date of joining and designation of a professor.

Results: Add a new faculty to the database.

http://localhost:8001/insert_faculty.php

- **New Project:**

Inputs: Project ID(unique ID assigned to each project), name, budget, sponsor, date of start, faculty id and role

Results: Add a new project to the database.

http://localhost:8001/insert_project.php

- **New Publications:**

Inputs: Publication ID(unique ID assigned to each publication), name, pages, topic, conference/journal name, date of publication, faculty id and author rank.

Results: Add a new project to the database.

http://localhost:8001/insert_publication.php

Queries:

- **View projects and Publications:**

Inputs: Faculty ID

Results: Details of all projects and publications done by faculty(whose id was given as input).

http://localhost:8001/faculty_work.html

- **Faculty in a department:**

Inputs: Department Name

Results: Details of all the faculty belonging to a particular department.

http://localhost:8001/view_faculty.html

- **Collaborations:**

Inputs: Faculty ID

Results: Faculty name and count of how many times a faculty has collaborated with other faculty.

<http://localhost:8001/p2.html>

- **Publications:**

Inputs: Faculty ID, years you want to see publications.

Results: Publications and topic wise details of all the publications done by the faculty in past years given in input.

<http://localhost:8001/p1.html>

- **Keyword Search:**

Input: Words like ML, NLP, MHRD

Results: All the project and publications related to the keyword.

http://localhost:8001/latest_work.html

- **Projects and Publications:**

Inputs: Department Name

Results: Details of all the publications and projects undergoing by a particular department.

<http://localhost:8001/p3.html>

- **Get Faculty IDs:**

Inputs: Name of faculty

Results: Faculty ID(if present in the database).

<http://localhost:8001/getFacultyID.php>

Challenges:

- **Inconsistency in insertion:**

Faculty insertion: if a faculty is using duplicate faculty ID, it will show id error. If insertion is failed it will show the error with values pre-filled in the form.

Project insertion: Multiple faculties may insert a single project. If a new project is added to the database where project data is already present in the database(added by another faculty), it will check if project name, budget, sponsor and date of start of new data matches with existing one.

if it matches, the project is updated with the role of new faculty.

if it doesn't match, error messages are shown, and it shows an option to update project data, when clicked will update project data with new values.

Publication insertion: Multiple faculties may insert a single publication. If a new publication is added to the database where publication data is already present in the database(added by another faculty), it will check if publication details of new data match with the existing one.

if it matches, the publication is updated with the rank of new faculty.

if it doesn't match, error messages are shown, and it shows an option

to update publication data, when clicked will update publication data with new values.

- **Admin access:**

Only trusted sources can be allowed to insert data, so a login page for admin access was required. So, made a login page which on signup will provide admin rights to insert the data.