

Database Management System Project- Project Management System

Title of the project: UNIVERSITY DATABASE

Problem Statement:

To create a database management system for the university database, where there will a Student login page, that logs into the university page. Students can view their details and the course into which they have registered. Students can even look after their faculty members and their course instructor for a particular project.

Software Details:

Front-end: HTML &Java Script

Back-end: XAMP Server

Connection: PHP

Procedure:

- Firstly, a suitable back-end was established with constraints or the requirements shown below.
- Suitable ER diagrams and Schema Designs, Relational models were constructed based on the requirements.
- The Student table has the following columns:
 - SSN
 - NAME
 - AGE
 - DEGREE
- ❖ The Professor table has the following columns:
 - PROFID
 - NAME
 - AGE
 - RANK
 - RESEARCH SPECIALITY
- ❖ The project table has the following columns:
 - PROJECTNUMBER

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- SPONSORNAME
- SDATE
- EDATE
- BUDGET
- ❖ The Department has the following columns:
 - DEPTNO
 - DEPTNAME
 - MAINOFFICE
- ❖ These are the main required tables for the database. The relationship tables involve
 - Advises
 - Chairs
 - Manages
 - Student advisor
 - Studentinfo
 - Studentworkson
- ❖ The relationships were established with the cross reference, foreign key approach.

REQUIREMENTS:

- Professors have an SSN, a name, an age, a rank, and a research specialty.
- Projects have a project number, a sponsor name, a starting date, an ending date, and a budget.
- Graduate **students** have an SSN, a name, an age, and a degree program .
- Each project is managed by one professor (known as the project's principal investigator).
- Each project is worked on by one or more professors
- Professors can manage and/or work on multiple projects.
- Each project is worked on by one or more graduate students .
- When graduate students work on a project, a professor must supervise their work on the project.
- Graduate students can work on multiple projects, in which case they will have a supervisor for each one.
- Departments have a department number, a department name, and a main office.
- Departments have a professor (known as the chairman) who runs the department.
- Professors work in one or more departments, and for each department that they work in, a time percentage is associated with their job.
- Graduate students have one major department in which they are working on their degree.
- Each graduate student has another, more senior graduate student who advises him or her on what courses to take.

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RESULTS:

LOGIN PAGE



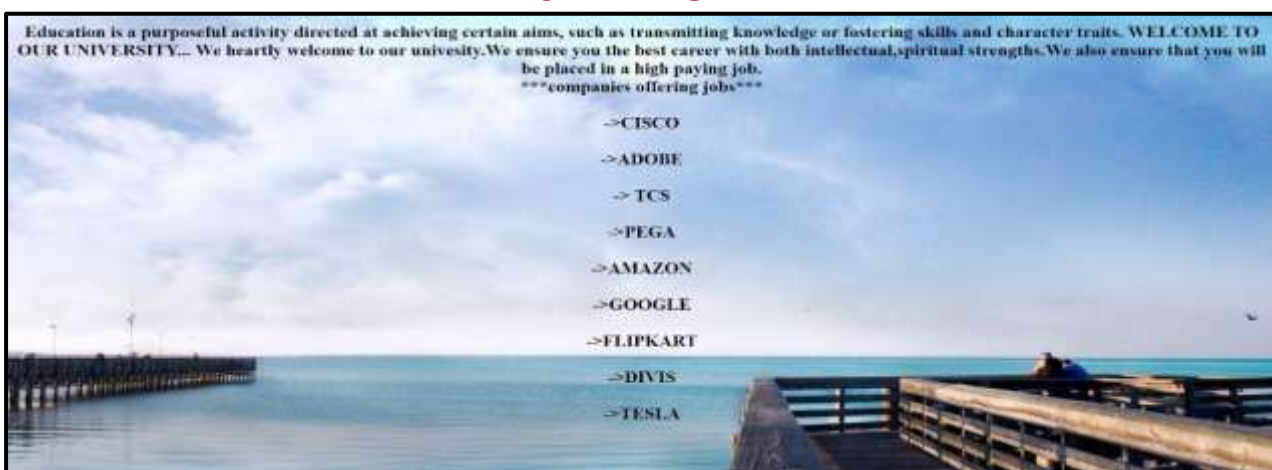
The Username that is to be entered is “*dwaraka*” and the password is “*dwaraka123*”.

TITLE PAGE



❖ Click on “HOME”

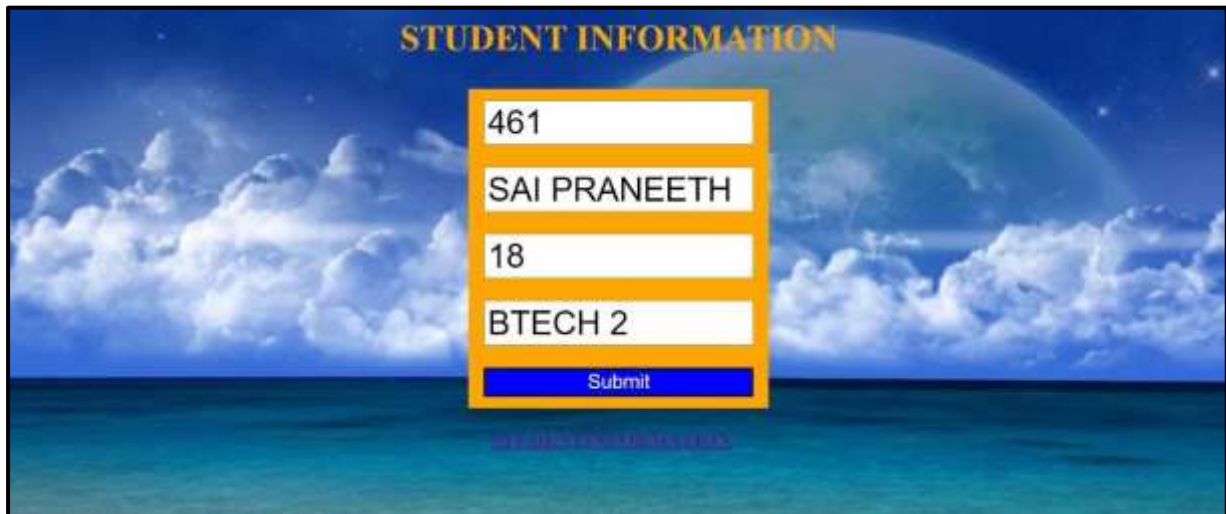
HOME PAGE



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- ❖ Click on “STUDENT”

STUDENT PAGE



STUDENT INFORMATION

461

SAI PRANEETH

18

BTECH 2

Submit

- ❖ Click on **submit**, the values that you have entered will be successfully filled into the student table in the university database.
- ❖ Now click on “**STUDENT INFORMATION**”

SSN	Name	AGE	DEGREE
301	PRAMOD	17	BTECH1
302	PRAHLAD	19	BTECH2
303	RAMESH	20	BTECH3
304	KUMAR REDDY	22	BTECH4
305	SUNEETHA	19	BTECH2
306	SARASWATI	20	BTECH3
307	LAKSHMI	20	BTECH2
308	PARVATI	20	BTECH3
309	somesh	19	btech2
310	RAMU	20	BTECH2
311	tarak mishra	17	BTECH1
312	madhav mishra	20	BTECH2
313	SHANKAR	19	BTECH2
318	gangadhar	18	BTECH1
319	sudhakar	19	BTECH2
461	SAI PRANEETH	18	BTECH 2
505	Bharath	17	BTECH 1

- ❖ We can observe that the details that we have entered are filled in the database with SSN 461.

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❖ Go to the title page and click on “**PROFESSOR**”

PROFESSOR PAGE



❖ Click on the “**submit**” button. The values are successfully entered into the database.

PROFID	Name	AGE	RANK	RESEARCHSPECIALITY
101	MR.SAIBABA	40	1	ARTIFICIAL INTELLIGENCE
102	MR.SURYA PRAKASH	44	2	PYTHON
103	MR.VISWANATH KUMAR	46	3	PYTHON
104	MR.RAVI KUMAR	54	1	OOPS
105	MR.KRISHNA MURTHY	54	6	EVS
106	MR.VENKATA RAO	54	1	MATHEMATICS FOR DATA SCIENCE
107	MRS.SAILAJA	34	3	DATAANALYTICS
108	MRS.MADHAVI	46	6	ALGORITHM SPECIFICATIONS
109	MR.SAI PRANEETH	27	4	OOPS & DATASTRUCTURES
110	MR.PANDURANGARAO	56	5	DBMS
111	MR.GURUPRASAD	56	2	MACHINE LEARNING
112	MR.KIRAN KUMAR	54	1	MACHINE LEARNING
113	MRS.RAMLAKSHMI	47	4	INSTRUMENTATION
114	MRS.RAJYA LAKSHMI	54	4	BEE
115	MR.SOMANATHA SASTRY	57	2	COMPUTER DESIGN
151	MURTHY	54	4	DISCRETE MATHEMATICS

❖ Here we can observe that the details are successfully entered into the table with “**PROFID**” 151.

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❖ Go to title page and click on ***“DEPARTMENT”***.

DEPTNO	DEPTNAME	MAINFOFFICE
10	AI&DS	DU
20	CSE	DU
30	IT	DU
40	ECE	DU
50	EEE	DU
60	MECH	DU
70	EIE	DU
80	AI&ML	DU

❖ Go to title page and click on ***“PROJECT”***

PROJECTNUMBER	SPONSORNAME	STARTINGDATE	ENDINGDATE	BUDGET
201	CISCO	2022-11-08	2023-01-01	70000
202	TCS	2022-11-15	2023-02-04	40000
203	WIPRO	2022-11-23	2023-01-04	50000
204	TECHMAHINDRA	2022-11-30	2023-01-04	70000
205	DIVIS	2022-11-15	2023-01-04	50000

❖ Go to title page and click on ***“REGISTRATION”***

SSN	PROJECTNUMBER	SPONSORNAME
301	201	CISCO
304	202	TCS
306	203	WIPRO
308	203	WIPRO
307	204	TECHMAHINDRA

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❖ SQL STATEMENTS:

```
select a.SSN,a.PROFID,b.NAME from studentinfo a,professor b where a.PROFID=b.PROFID;
```

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

☐ Show all | Number of rows: 25 Filter rows:

Extra options

SSN	PROFID	NAME
301	104	MR.RAVI KUMAR
304	101	MR.SAIBABA
306	101	MR.SAIBABA
307	107	MRS.SAILAJA
308	104	MR.RAVI KUMAR

```
SELECT g.SSN,g.PROJECTNUMBER,e.SPONSORNAME FROM studentworkson g,projects e WHERE  
e.PROJECTNUMBER=g.PROJECTNUMBER;
```

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

☐ Show all | Number of rows: 25 Filter rows:

Extra options

SSN	PROJECTNUMBER	SPONSORNAME
301	201	CISCO
304	202	TCS
306	203	WIPRO
308	203	WIPRO
307	204	TECHMAHINDRA