

Socially Relevant Project

Extension Of Information Science and Technology Department
Website Of CEG

A REPORT

Submitted by

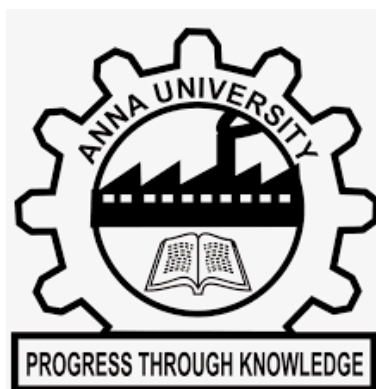
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In partial fulfillment for the award of the degree

of

**BACHELOR OF TECHNOLOGY IN
INFORMATION TECHNOLOGY**



INFORMATION SCIENCE AND TECHNOLOGY

ANNA UNIVERSITY, CHENNAI 600 025

MAY 2023

Bonafide Certificate

Certified that this project report “Extension Of the Information Science and Technology (ISTA) Website” is the bonafide work of CHARANYA M (2020115022) and SHIVAANI S (2020115082), who carried out the work under my supervision.

Signature

(Supervisor)

Signature

(Head of the Department)

Abstract

The Existing Website of Department Of Information Science and Technology is static and does not have interactive and dynamic features. So this project aims at provide these dynamic features to make it easy for students and faculties. Features to upload papers, upload study materials, create study groups, discuss, ask questions, update events, post new events, interfaces for entering details of various activities by students and faculties have been added. These were not there in the initial website.

There are three different logins for different types of users - Students, Research Scholars and Professors (Admin). Each of them have their own privileges and features in their respective logins. Admins have the overall control of the site. The students and research scholars have limited privileges like viewing all the modules, answering questions, posting questions, uploading materials, etc.

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Introduction

Our project is an extension of the current Information Technology department website of CEG, Anna University. The current website, while having many features, is not dynamic and is not user friendly. Everyone views the same website, and there are no provisions or a portal for users to upload information that might be useful to others. New dynamic features for students (Student Portals, Discussion Forums), Admins(who will have the overall control over the website) and Research Scholars (Research Paper Uploading, Research Portals, Discussion Forums) are added. Each of these users have different roles and can access different parts of their website. Alternatively, students and research scholars do not have a formal forum to ask each other questions, or refer to other questions asked by others. They do not have a proper way to gain authentic information they can trust. We intend to solve all these problems.

Problem Statement

An extension of the existing Information Science and Technology Department Website which is static, and to add dynamic features like Student Portals, Discussion Forums and Research Paper Corner for various types of users.

The extension aims to make it easy for professors to post about events they think would be useful. They can update the website about the website with the intern, placement details, and will also have admin privileges over all the activities of the research scholars and students.

We try to make an user portal for all kinds of users which would make it easier to interact with each other and post required information.

Application / Social Relevance

- Students, research scholars and professors can have an user portal
- Students can form study groups, ask questions in the discussion forum and have a student corner.
- Research Scholars can form study groups, interact in the discussion forum and post their research papers easily.
- Professors can post about new events, provide mentoring to those who want it, have admin privileges and post about intern, placement details

Existing System

- The current website is static.
- It has no features like discussion portals, study groups.
- Forming study groups, mentoring is manual, and is hard to organize.
- Lack of knowledge about what's happening across the department
- No tab for posting/answering questions
- There's no portal for students, research scholars to upload and showcase their work
- No admin privileges for uploading or manipulating data.
- Intern, placement details have to be posted as a document, instead of being updated in the website

Modules

01: Research Scholars

- Research Paper Uploading
- Study Groups
- Discussion Forum
- View Gallery
- View the books published by faculty
- View Event Gallery
- View placement and intern Details

02: Students

- Discussion Forum
- Study Groups
- Student Corner
- View Gallery
- View the books published by faculty
- View Event Gallery

- View placement and intern Details

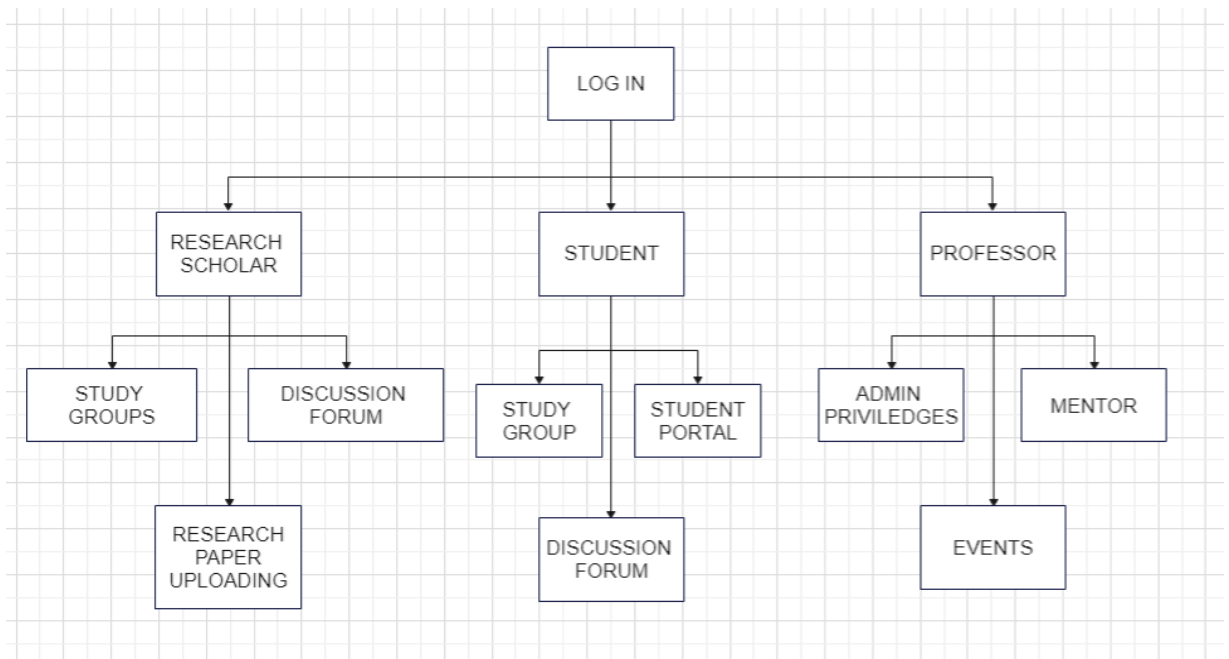
03: Professors(ADMIN)

- Events Posting
- Management of the website
- Mentoring
- Publish Books Details
- Upload Research Videos
- Upload Gallery Images
- Upload the various pictures of events based on event type and year
- Enter placement and Intern details

Tech Stack

- Node js with express
- Embedded js
- Mysql database

System Architecture



Module Descriptions

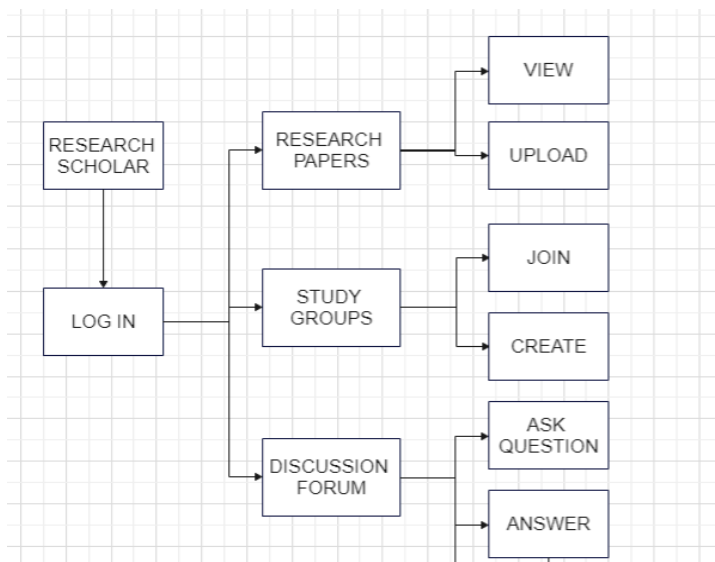
01) Research Scholars

- Research Scholar submits a research paper.
- Professors and other students can view them and give their comments
- Research Scholar can choose to upload a research paper at any time, and it will be visible to everyone.
- Research Groups is an initiative where scholars who are interested can join and conduct a meeting to clear doubts or study.
- Discussion Forum where research scholars can discuss and answer doubts/queries. Queries can be answered by professors as well.

Pseudo Code/Algorithm

- A Research Scholar logs in
- If credentials are correct, they are directed to their portal.
Else, invalid credentials.
- If they want to join study group, limit of study group is not reached yet, they can join.
Else, they can create a new study group, with all the necessary details.
They can look at the questions asked in discussion forums

- If they want to answer a question, and they've not answered before and the question is still open, they can answer.
- Answers for all the questions can be viewed.
- If they can provide details of the publication, they can post their research papers.
- They have tabs to view gallery, search gallery by events and year and view the books published by faculties of the department.
- They can also view the placement and intern details of various batches.



02) Students

- Student or can ask a question in the Discussion Forum. Student/Professors can answer.
- Student can either ask a question or answer a question.
- Study Groups: Student can indicate they want a study group in a topic/subject. If other students are interested, all of them decide a date and time.

A zoom link is made by the original student. Anyone can join the zoom meet to study. Any professor interested can mentor any of the groups.

- A Student can view the books published by the faculty, gallery and the placements details, research videos.
- They can also view intern and placement details about prior and current batches

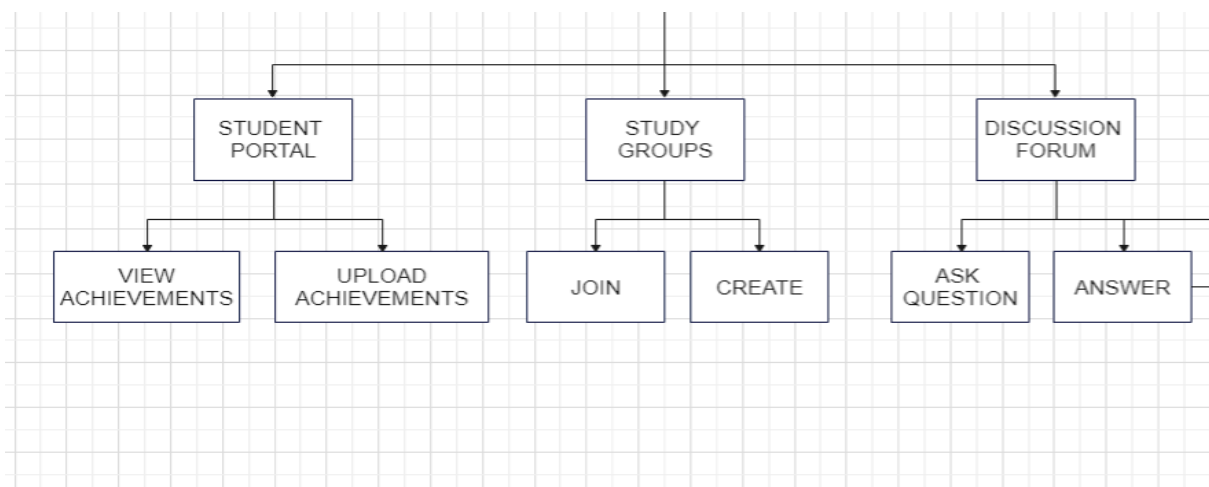
Pseudo Code/Algorithm

- A user logs in
- If credentials are correct, they are directed to their portal.
Else, invalid credentials.

- If they want to join study group, the limit of the study group is not reached , they can join.

Else, they can create a new study group, with all the necessary details.

- They can look at the questions asked in discussion forums
- If they want to answer a question, and they've not answered before and the question is still open, they can answer.
- If question is open, and they have already answered, they can edit.
- If they have any achievements, prizes won, articles written, they can post in student corner
- They have tabs to view gallery, search gallery by events and year and view the books published by faculties of the department.
- They can also view the placement and intern details of various batches.



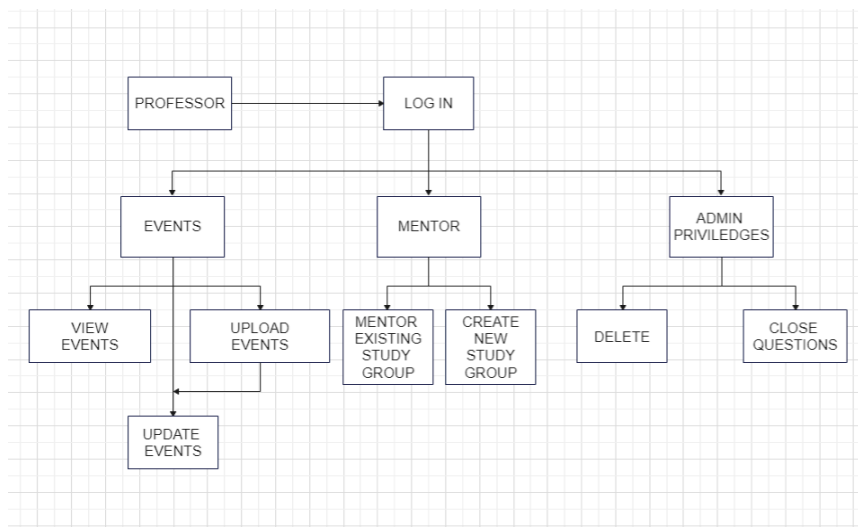
03) Professors(ADMIN)

- Events Catalog: Professors can upload new events that are happening so that students can browse through the pages.
- Others can look at the events.
- They can mentor any study group they wish to.
- Professors have admin privileges like deleting a post.
- They can oversee study groups.
- They can also drop in to see if all is going well in a study group

Pseudo Code/Algorithm

- A professor logs in
- If credentials are correct, they are directed to their portal.
Else, invalid credentials.
- If they want to mentor an existing study group, they can mentor the study group.
Else, they can create a new study group, with all the necessary information and mentor it.
- They can look at the questions asked in discussion forums

- If they want to answer a question, and they've not answered before and the question is still open, they can answer.
- If question is open, and they have already answered, they can edit.
- Questions can be deleted, closed.
- Answers can be deleted.
- If they want to post about any upcoming event and its not been posted before, they can do so.
- They have tabs to view and upload pictures in gallery, search gallery by events and year and insert and view the books published by faculties of the department.
- They can also enter and view the placement and intern details of various batches.



Results

1)Students Side

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[Log In](#) [Activities](#) [Sign Up](#)

[Student](#)
[Research Scholar](#)
[Professor](#)

Student Login

Email Address :

Password :

[Log In](#)

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[Events](#) [Discussion Forum](#) [Research Papers](#) [View Intern](#) [View Placements](#) [Log Out](#)

Upload:

No file chosen

Name:

Description:

achievement	Uploaded by	
my first report	johnsmith@gmail.com	View

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[Events](#) [Add Achievements](#) [Discussion](#) [View Intern](#) [View Placements](#) [Log Out](#)

what is [View](#)

[Ask Question](#)

[Answer Question](#)

[View My Unanswered Question](#)

when is the convocation day? - johnsmith@gmail.com	- peterparker@gmail.com
when is the convocation day? - johnsmith@gmail.com	feb 23 - admin1@gmail.com
what is ceg - peterparker@gmail.com	This was deleted - johnsmith@gmail.com

2)Research Scholars

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[Events](#) [Home](#) [Discussion Forum](#) [Research Papers](#) [View Intern](#) [View Placements](#) [Log Out](#)



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[Events](#) [Add Achievements](#) [Discussion Forum](#) [View Intern](#) [View Placements](#) [Log Out](#)

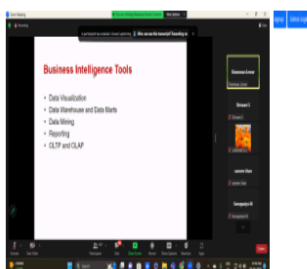
SNo	Title	Description	Date	Venue
1	efef	dweetty2	Sun Jun 11 2023 00:00:00 GMT+0530 (India Standard Time)	ww
2	12345	1234	0000-00-00	ss

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[Events](#) [Discussion Forum](#) [Research Papers](#) [Home](#) [View Intern](#) [View Placements](#) [Log Out](#)

Gallery



Login System in Node.js Express

Hi User, Welcome!

[Logout](#) [Admin Login](#)

3)Admin

Add published Books details

Author
<input type="text"/>
Title
<input type="text"/>
year
<input type="text"/>
Publisher
<input type="text"/>
<input type="button" value="Add"/>

SNo	Author	Title	Year	Publisher		
1	<input type="text" value="C.J.Date, S.Swamynathan &"/>	<input type="text" value="Introduction to Database!!"/>	<input type="text" value="2008"/>	<input type="text" value="C.J.Date, S.Swamynathan &"/>	<input type="button" value="Update"/>	<input type="button" value="Delete"/>

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[Home](#) [Events](#) [Discussion Forum](#) [View Intern](#) [Home](#) [View Placements](#) [Research Papers](#) [Log Out](#)

Paper	Uploaded by		
FireDetection	admin1@gmail.com	<input type="button" value="View"/>	<input type="button" value="Delete"/>
iot	johnsmith@gmail.com	<input type="button" value="View"/>	<input type="button" value="Delete"/>
SRP	johnsmith@gmail.com	<input type="button" value="View"/>	<input type="button" value="Delete"/>
Text Summariser	admin1@gmail.com	<input type="button" value="View"/>	<input type="button" value="Delete"/>
cc	admin1@gmail.com	<input type="button" value="View"/>	<input type="button" value="Delete"/>
disc	johnsmith@gmail.com	<input type="button" value="View"/>	<input type="button" value="Delete"/>
Fire Detection paper	johnsmith@gmail.com	<input type="button" value="View"/>	<input type="button" value="Delete"/>
1234	johnsmith@gmail.com	<input type="button" value="View"/>	<input type="button" value="Delete"/>

CONCLUSION

An user portal for 3 different types of users - students, research scholars and professors with varying privileges was created. The dynamic website allows them to post information directly onto the website, and to communicate with others formally. It provides them with an authentic way to get and share information. Professors get admin facilities apart from privileges like updating intern, placement statistics. They can also update their profile and include details like the books they've published.