



# MINI PROJECT

## PHASE II

### Blockchain Based Document Administration

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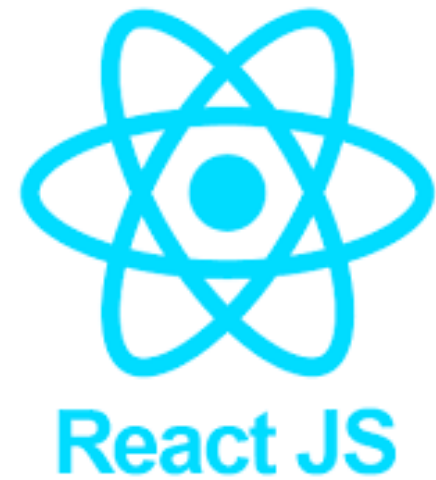
# Problem Statement

- The management of student records is a critical task for educational institutions, and the traditional methods of storing and sharing these records are often inefficient and insecure.
- Institutions' current methodology for document management is centralized, unstructured and highly unautomated which increases the probability of human error.
- To address these challenges, this project proposes the development of a blockchain-based student records management system.

# Objectives

- Create a user creation process that will be verified from the specified nodes
- Manage the documents of the user (student in this case) like marksheets ,cgpa, hackathon participation attendance system,etc.
- Provide a system to verify if the given document matches the original document of the user.
- A admin dashboard to view the data statistics
- Share the files with required organisation as per their authority
- Organizations can request details of users or group of users

# Tech Stack

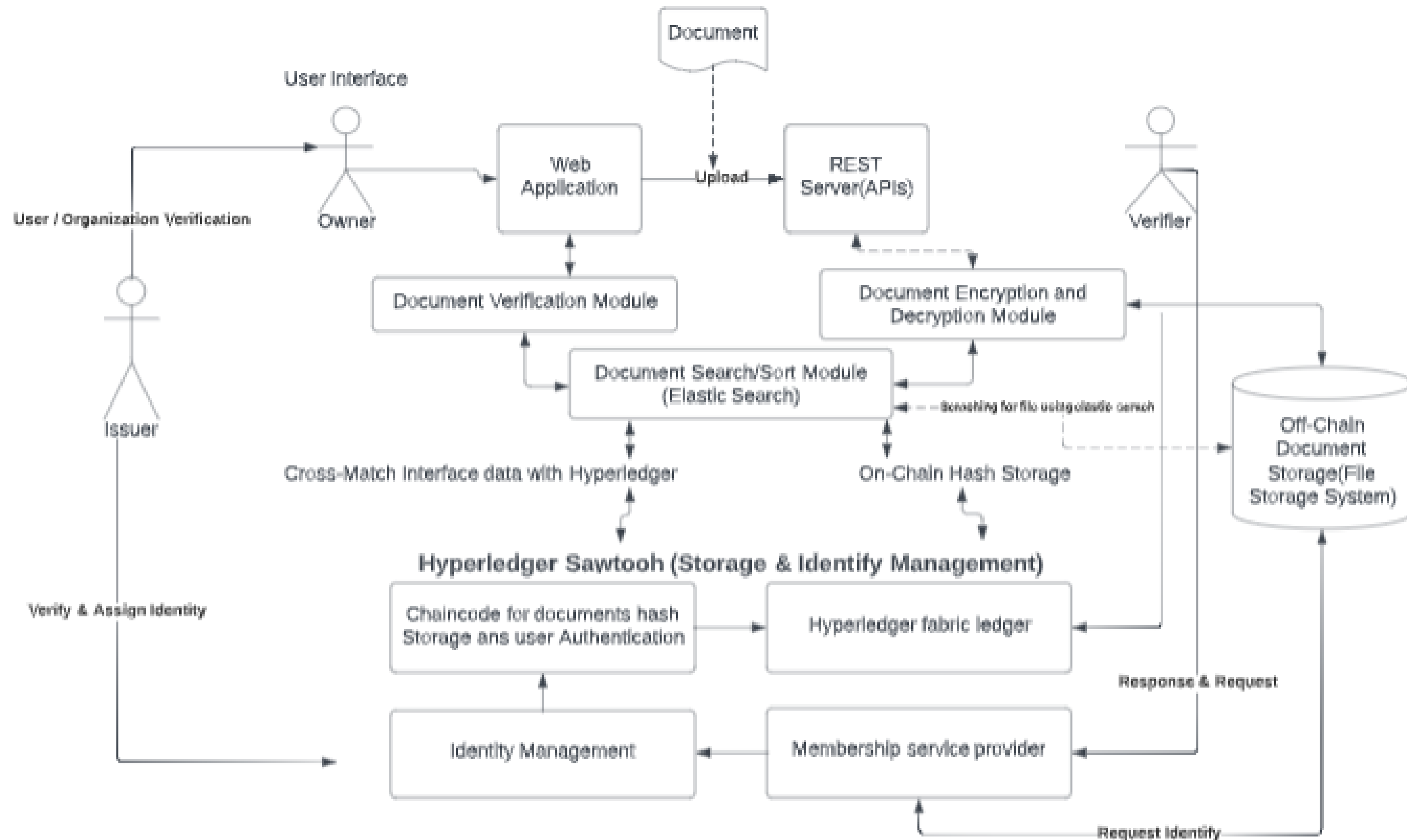


**HYPERLEDGER**  
**SAWTOOTH**



**elasticsearch**

# System Architecture



# Document types

## Academic Documents

- Marksheet
- Attendance
- Graduation Degree
- Letter of Recommendation(LOR's)

## Co-curricular Activities Certificate

- Event(Business/Case Study Competition, Hackathon Certificates)
- Volunteering work Certificate (Abhyudaya , Beach cleaning etc.)
- Position held in Committees

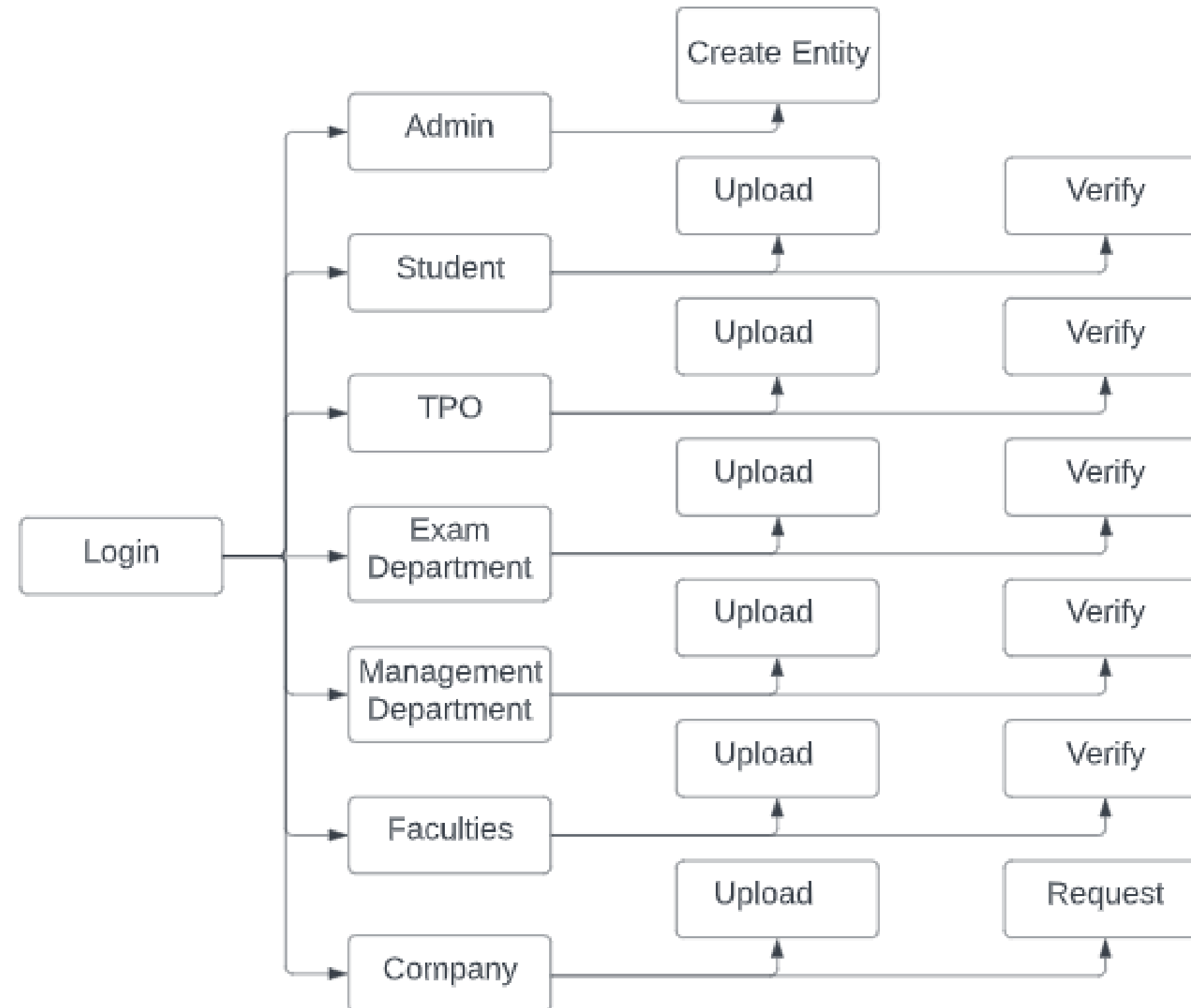
## Internships / Jobs Documents

- Internship / Jobs offers
- Letter of Appreciation (LOA's) / Letter of Recognition (LOR's) / Letter of Completion (LOC's) for internship / job.

## Personal Documents

- 10th Marksheet
- 10th Passing Certificate
- 11th Marksheet
- 12th Marksheet
- 12th Passing Certificate
- 12th Leaving Certificate
- MHT-CET Score Sheet
- JEE Main Score Sheet
- JEE Advanced Score Sheet
- Aadhar Card
- Domicile
- Photos(For Initial Profile)
- Birth Certificate
- EWS Certificate
- SC/ST/NT/OBCs Certificate
- Diploma Degree(If Direct Second Year (DSE) Student)

# Block Diagram



# Modules

## Authentication

For login into various entities like Admin, student, TPO, Faculties etc.

## Admin

For creating various entities like student , faculties, TPO, Companies etc.

## Student

To upload document like personal document and Co - curricular Activities Certificates & to verify details by ED, TPO, Md & Faculties.

## Training & Placment Office (TPO)

To upload and verify job/interns and to verify companies and to complete requests made by companies.

## Examination Department (ED)

To upload marksheet and graduation degree to verify details for TPO and Companies

## Management Department (MD)

To upload data for student verification of personal data and request made by companies and TPO

## Faculties

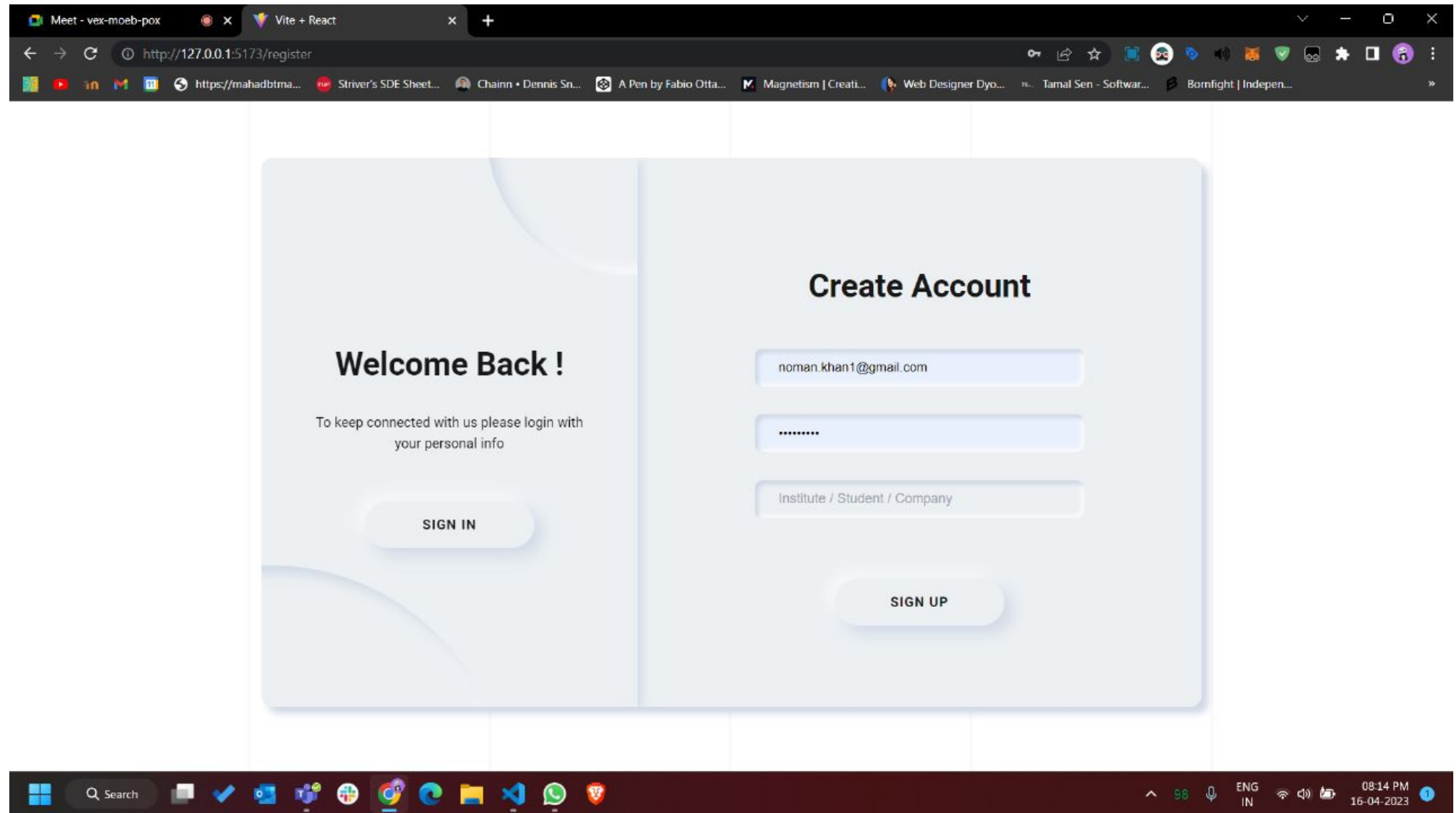
To upload LOR's , attendance and verify LOR's.

## Company

To request and upload student documents for verification by college authorities and



# Authentication



# Student

Meet - vex-moeb-pox x Vite + React x +

http://127.0.0.1:5173/documents/academic

PeerDocs

+ Add Document

Search Here...

Documents

Academic

Personal

Co-Curricular

Intern & Placement

Logout

Type	Name	Size	File Hash	Last Modified	Status	Share	Download
PDF	file1	1.2mb	0x1234567890	12/12/2020	Verified		
JPG	file1	1.2mb	0x1234567890	12/12/2020	Pending		
PNG	file1	1.2mb	0x1234567890	12/12/2020	Verified		
PDF	file1	1.2mb	0x1234567890	12/12/2020	Pending		
	file1	1.2mb	0x1234567890	12/12/2020	Verified		

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# Training & Placement Office

Meet - vex-moeb-pox x Vite + React x +









http://127.0.0.1:5173/verify/company-request

Search Here...

PeerDocs

- Documents
  - Internship
  - Jobs
- Verification
  - Student
  - Company Request**
  - Company Verify

Logout

Avatar	Name	Company Requested	Email	Hash	Send
	John Doe	Google	noman.khan3701@gmail.com	0x123456789044237853232485843	<a href="#">Give All Documents</a>
	John Doe	Google	noman.khan3701@gmail.com	0x123456789044237853232485843	<a href="#">Give All Documents</a>
	John Doe	Google	noman.khan3701@gmail.com	0x123456789044237853232485843	<a href="#">Give All Documents</a>
	John Doe	Google	noman.khan3701@gmail.com	0x123456789044237853232485843	<a href="#">Give All Documents</a>
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	John Doe	Google	noman.khan3701@gmail.com	0x123456789044237853232485843	<a href="#">Give All Documents</a>
	John Doe	Google	noman.khan3701@gmail.com	0x123456789044237853232485843	<a href="#">Give All Documents</a>

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# Exam Department

PeerDocs

Verification

User Academic

Search Here...

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JPG	file1	1.2mb	0x1234567890	12/12/2020	<a href="#">Verify</a>	<a href="#">Download</a>
PNG	file1	1.2mb	0x1234567890	12/12/2020	<a href="#">Verify</a>	<a href="#">Download</a>
PDF	file1	1.2mb	0x1234567890	12/12/2020	<a href="#">Verify</a>	<a href="#">Download</a>
Doc	file1	1.2mb	0x1234567890	12/12/2020	<a href="#">Verify</a>	<a href="#">Download</a>

Logout

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# Management Department

PeerDocs

Verification

User Personal

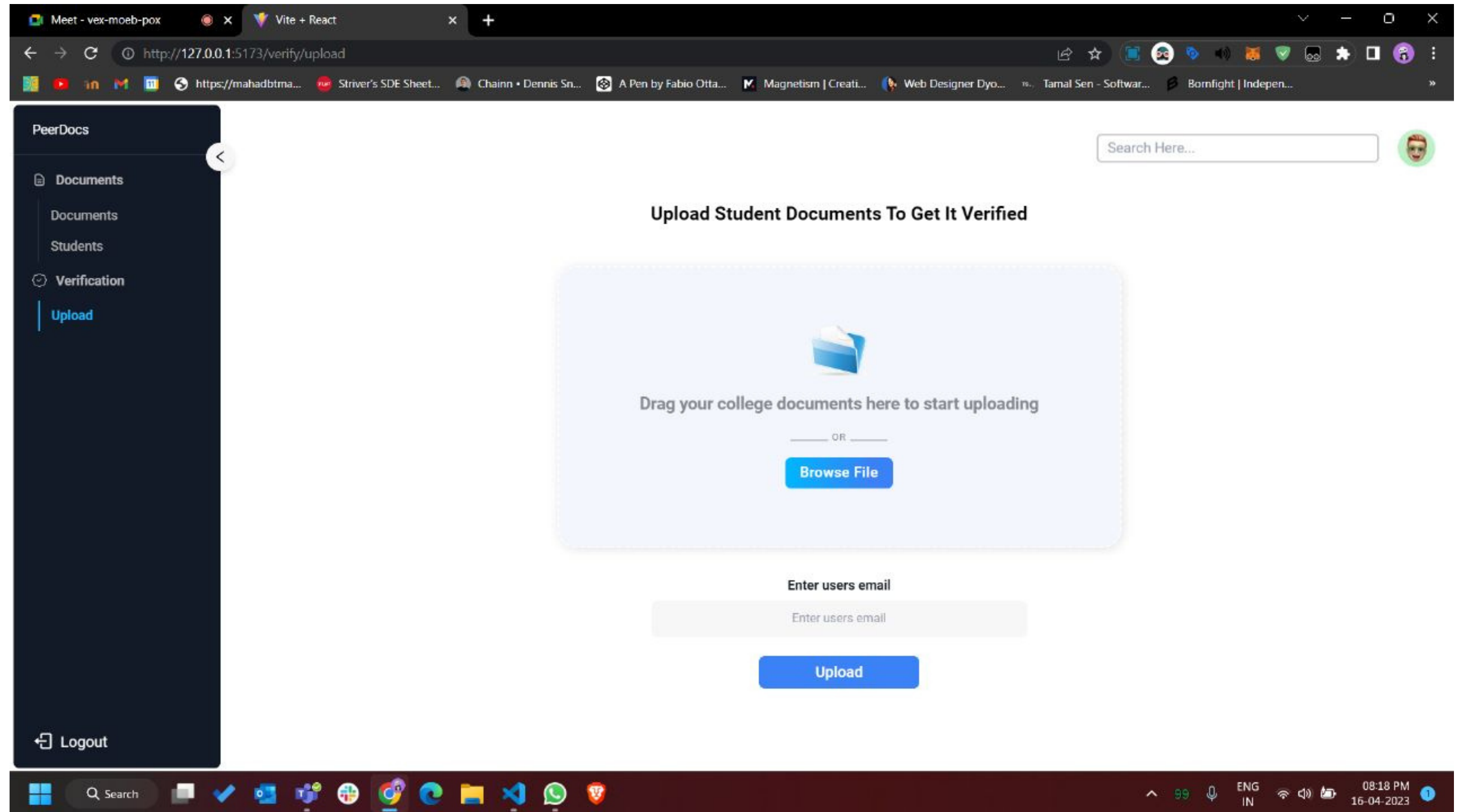
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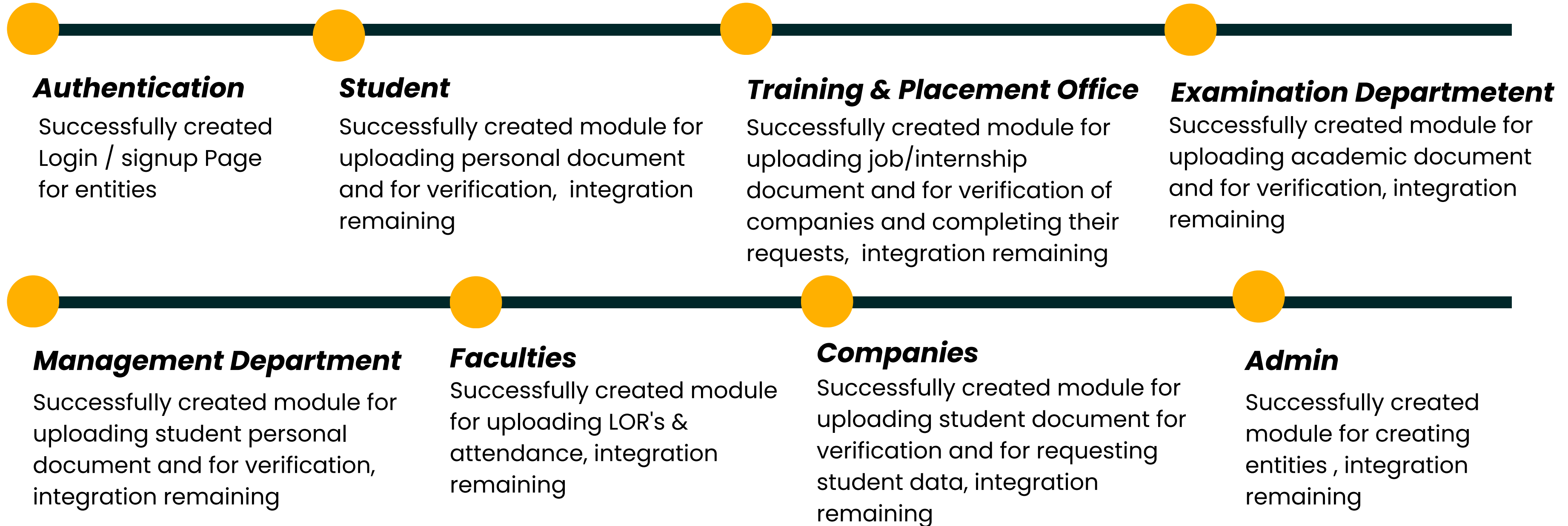
Logout

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# Company



# Progress Status(Phase -II)



# References

***Document Verification using Blockchain for Trusted CV Information***

<https://drive.google.com/file/d/1o7009l8MuOPeHTq6Vei8LZuiceU6hUVJ/view?usp=sharing>

***Blockchain Based Framework for Educational Certificates Verification***

[https://drive.google.com/file/d/1h46TygYUv4sppuGC9bp\\_A435emjUxec\\_/view?usp=sharing](https://drive.google.com/file/d/1h46TygYUv4sppuGC9bp_A435emjUxec_/view?usp=sharing)

***A Graduation Certificate Verification Model via Utilization of the Blockchain Technology***

<https://drive.google.com/file/d/1o7009l8MuOPeHTq6Vei8LZuiceU6hUVJ/view?usp=sharing>





**Ace Solutions**

# Thank you!

Feel free to approach us if you have any questions.

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