PROJECT DESIGN PHASE I

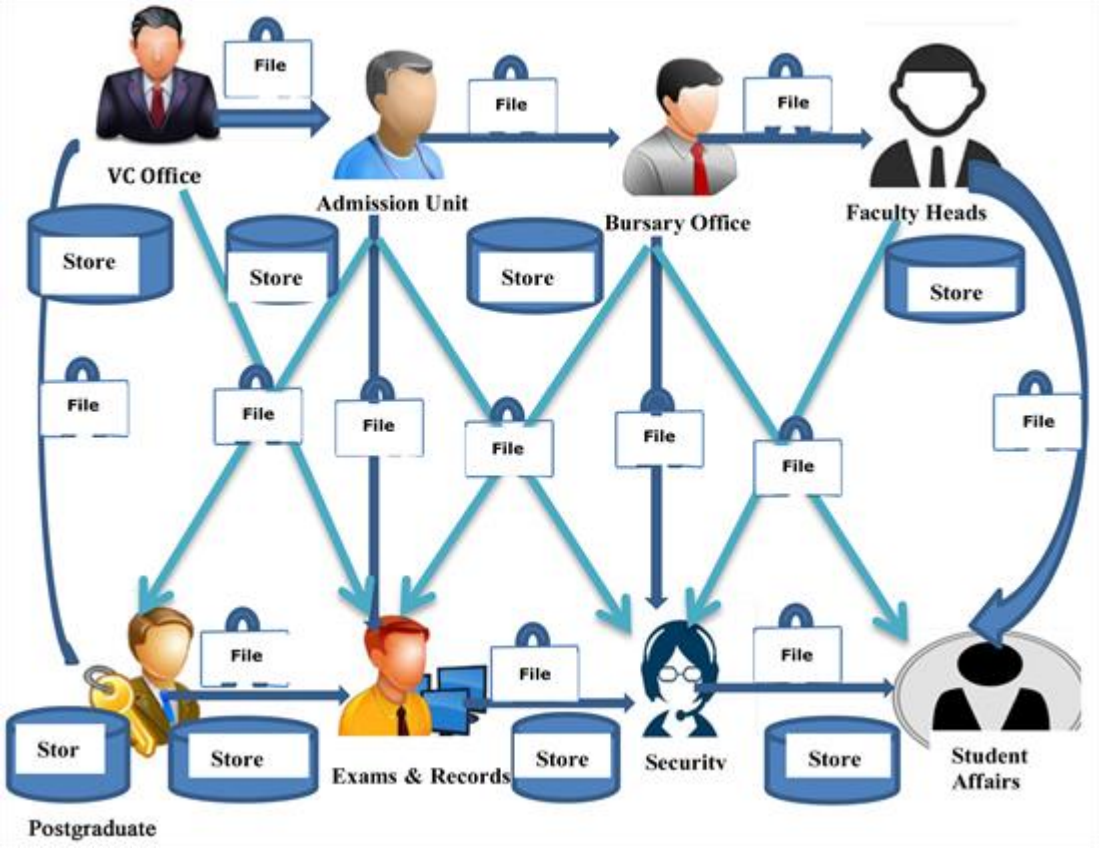
TEAM ID	NM2023TMID04391
PROJECT TITTLE	BLOCKCHAIN POWERED LIBRARY MANAGEMENT

Solution Architecture:

Solution architecture is a complex process – with many sub-processes – that bridgesthe gap between business problems and technology solutions. Its goals are to:

- Blockchain architecture is the design structure peer-to-peer (P2P) network of computers that serves as a backend for applications and systems.
- This network is built to function as a unit (virtual machine) even though there is no central authority to manage the interaction among the nodes.

Solution Architecture diagram :



Prerequisite:

1. download node.js : Node.js

2. download vs code: Li4nk

3. download metamask : https://metamask.io/

Steps to complete the project

Step 1:-

1. Open the Zip file and download the zip file.

Extract all zip files

Step 2 :

1.Open vs code in the left top select open folder. Select extracted file and open

.

2. Select the projectname.sol file and copy the code.

3. Open the remix ide platform and create a new file by giving the name of

projectname.sol and paste the code which you copied from vs code.

4. Click on solidity compiler and click compile the projectname.sol

5. Deploy the smart contract by clicking on the deploy and run transaction.

6. select injected provider - MetaMask. In environment

7. Click on deploy. Automatically MetaMask will open and give confirmation. You will get

a pop up click on ok.

8. In the Deployed contract you can see one address copy the address.

9. Open vs code and search for the connector.js. In contract.js you can paste the

address at the bottom of the code. In export const address.

10. Save the code

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Step 3:

open file explorer

1. Open the extracted file and click on the folder.

2. Open src, and search for utiles.

3 . You can see the frontend files. Select all the things at the top in the search bar by

clicking alt+ A. Search for cmd

4. **Open cmd enter commands**

npm install

npm bootstrap

npm start

5. It will install all the packages and after completing it will open {LOCALHOST IP

ADDRESS} copy the address and open it to chrome so you can see the frontend of your

project.