

Project Design

Phase-I Solution

Architecture

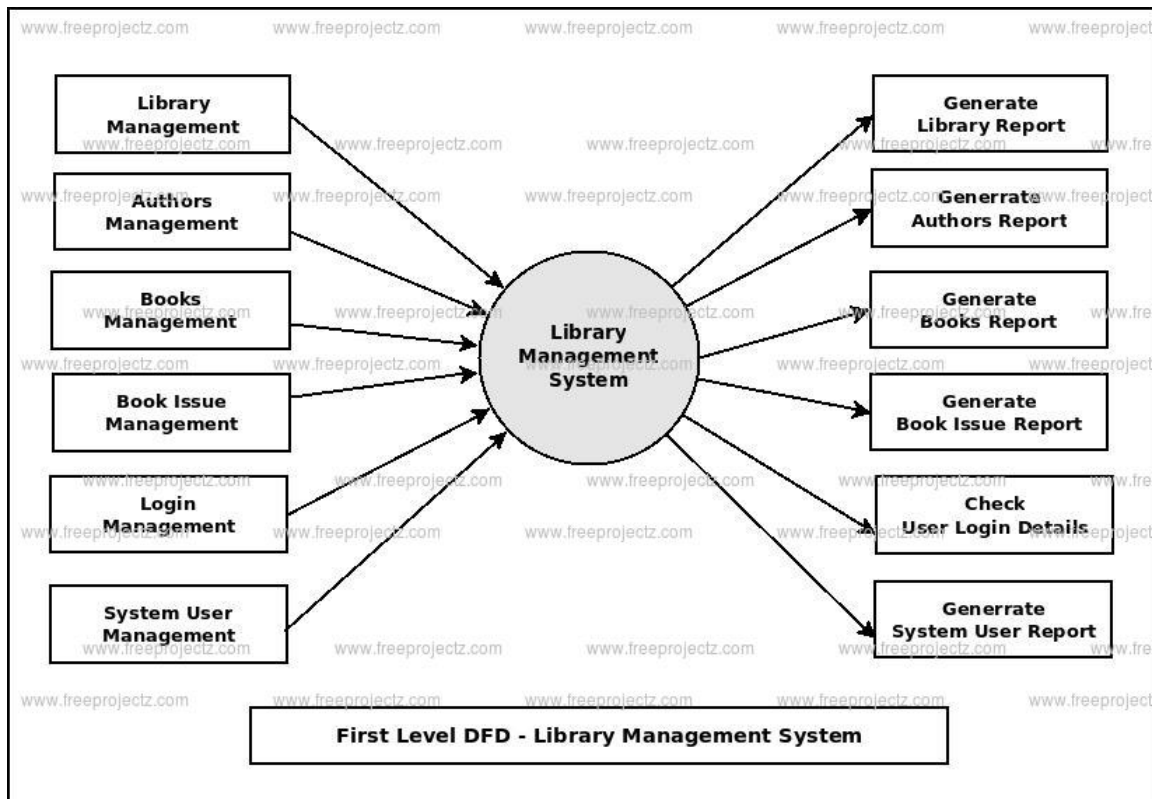
Date	31 October
Team ID	NM2023TMID11498
Project Name	BlockChian-Powered Library Management
Maximum Marks	4 Marks

Solution Architecture:

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

- Find the best tech solution to solve existing business problems.
- Describe the structure, characteristics, behavior, and other aspects of the software to project stakeholders.
- Define features, development phases, and solution requirements.
- Provide specifications according to which the solution is defined, managed, and delivered.

Example - Solution Architecture Diagram:



Prerequisite

- download node.js : [Node.js](https://nodejs.org/en/)
- download vs code: [Li4nk](https://code.visualstudio.com/)
- 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 :

- Open vs code in the left top select open folder. Select extracted file and open .
- Select the projectname.sol file and copy the code.

- 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.
- Click on solidity compiler and click compile the projectname.sol
- Deploy the smart contract by clicking on the deploy and run transaction.
- select injected provider - MetaMask. In environment
- Click on deploy. Automatically MetaMask will open and give confirmation. You will get a pop up click on ok.
- In the Deployed contract you can see one address copy the address.
- 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.
- Save the code.

Step 3:

open file explorer

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

- Open cmd enter

commands npm

install

npm

bootstrap

npm start

- 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.