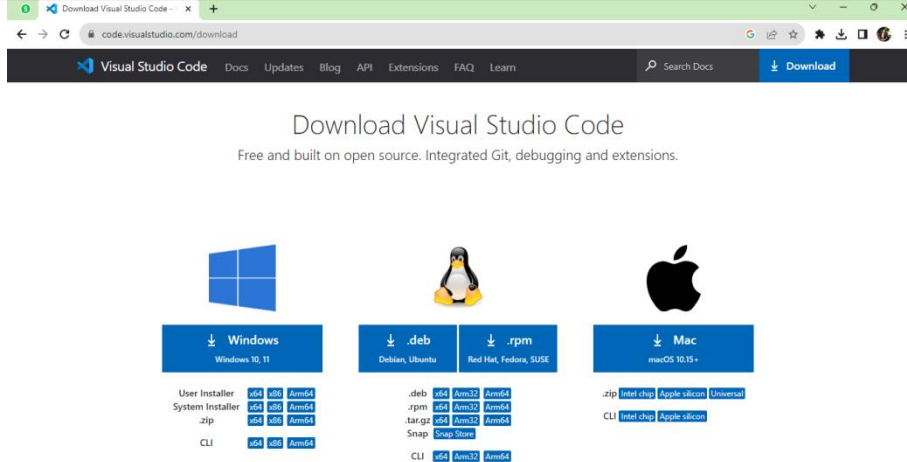


project Development Phase Model Performance Test

Date	10 November 2022
Project Name Project -	Blockchain - Powered Library Management
Maximum Marks	10 Marks

Model Performance Testing:

Project team shall fill the following information when working for blockchain.

Sno	Parameter	Values	Screenshots
1	Information gathering	Setup all the Prerequisite:	

nodejs.org/en/download

node

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macOS Installer
node-v18.18.2.pkg


Source Code
node-v18.18.2.tar.gz

Windows Installer (.msi)
Windows Binary (.zip)
macOS Installer (.pkg)
macOS Binary (.tar.gz)
Linux Binaries (x64)
Linux Binaries (ARM)

32-bit	64-bit
32-bit	64-bit
64-bit / ARM64	
64-bit	ARM64
64-bit	
ARMv7	ARMv8

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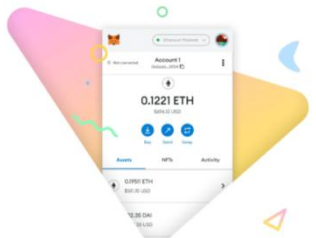
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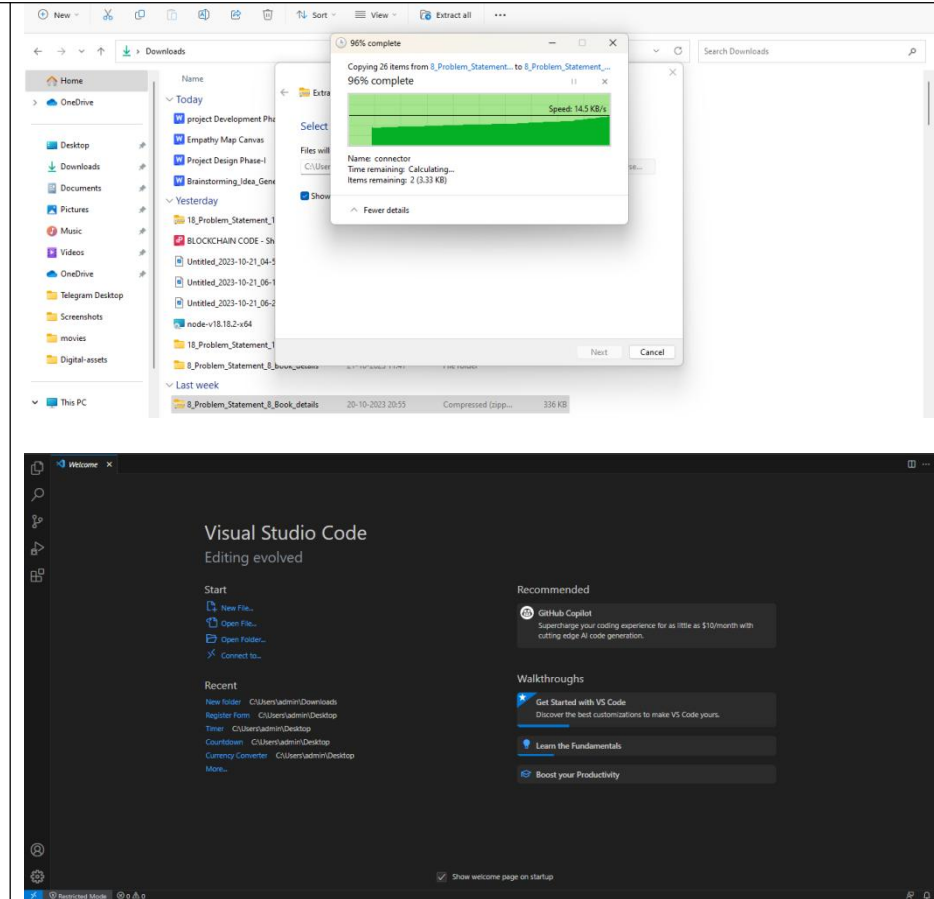
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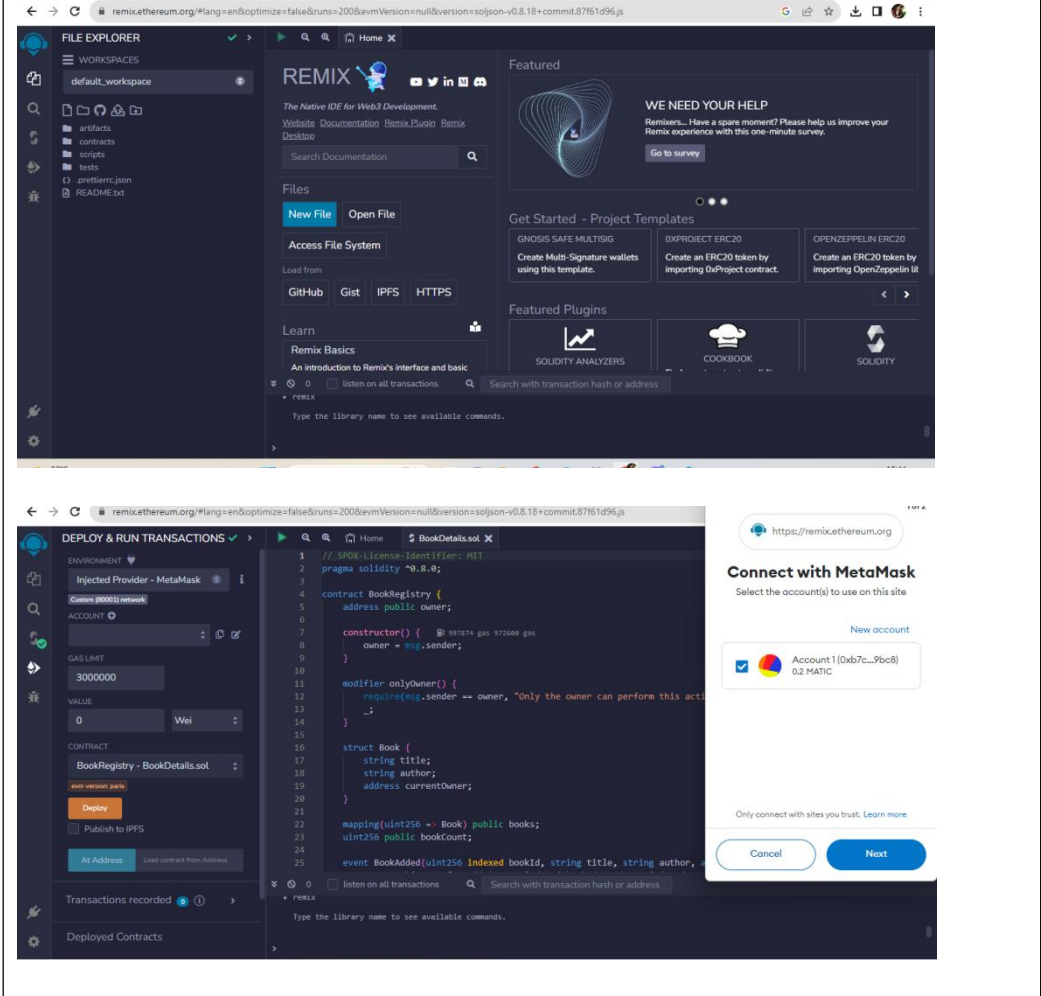


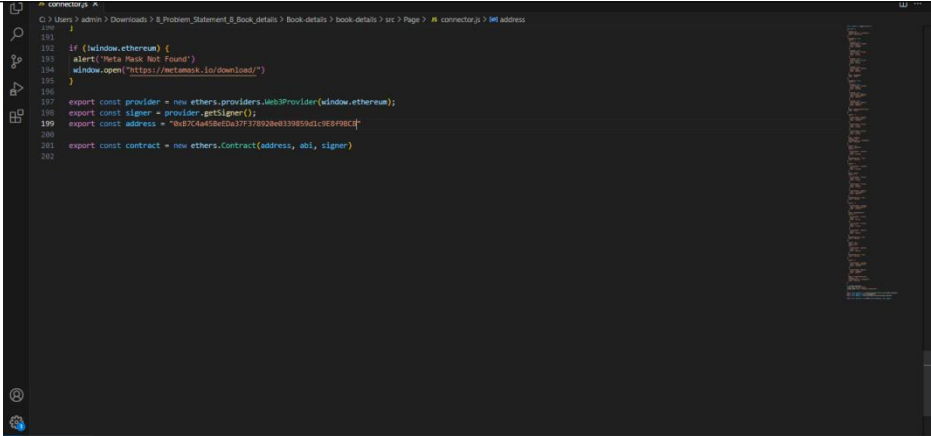
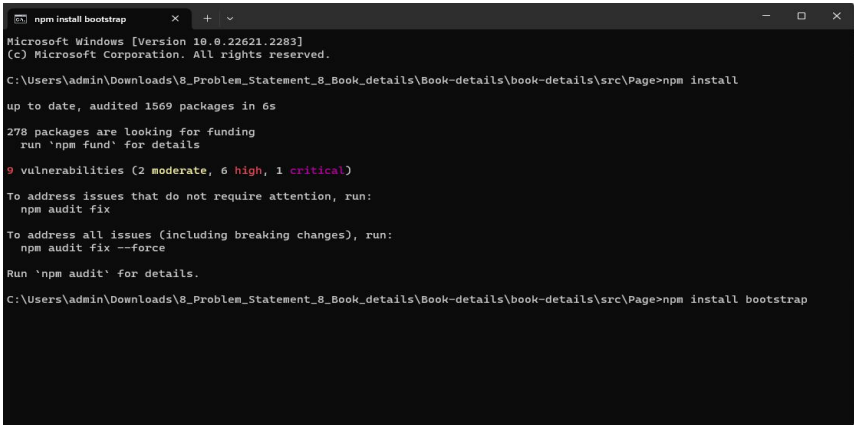
2

Extract the zip files

Open to vs code



3	Remix Ide platform exploring	<p>Deploy the smart contract code</p> <p>Deploy and run the transaction. By selecting the environment – inject the Meta Mask.</p>	 <p>The top screenshot shows the Remix IDE main interface. On the left is the 'FILE EXPLORER' showing a 'default_workspace' with folders for 'artifacts', 'contracts', 'scripts', 'tests', and files for 'prettierrc.json' and 'README.txt'. The main area displays the 'REMIX' logo and a search bar. Below are buttons for 'New File', 'Open File', and 'Access File System'. There are also buttons for 'Load from' (GitHub, Gist, IPFS, HTTPS) and a 'Learn' section with 'Remix Basics'. On the right, there's a 'Featured' section with a survey link and 'Get Started - Project Templates' for GNOSIS SAFE MULTISIG, OXPROJECT ERC20, and OPENZEPPELIN ERC20. Below that are 'Featured Plugins' for SOLIDITY ANALYZERS, COOKBOOK, and SOLIDITY.</p> <p>The bottom screenshot shows the 'DEPLOY & RUN TRANSACTIONS' panel. The 'ENVIRONMENT' dropdown is set to 'Injected Provider - MetaMask'. The 'ACCOUNT' dropdown shows 'Custom (RINKEBY) network'. The 'GAS LIMIT' is set to '3000000' and 'VALUE' is '0 Wei'. The 'CONTRACT' dropdown is set to 'BookRegistry - BookDetails.sol'. There are buttons for 'Deploy', 'Publish to IPFS', 'At Address', and 'Load contract from Address'. The 'Solidity' code editor shows the following code:</p> <pre> 1 // SPDX-License-Identifier: MIT 2 pragma solidity ^0.8.0; 3 4 contract BookRegistry { 5 address public owner; 6 7 constructor() { 8 owner = msg.sender; 9 } 10 11 modifier onlyOwner() { 12 require(msg.sender == owner, "Only the owner can perform this action"); 13 _; 14 } 15 16 struct Book { 17 string title; 18 string author; 19 address currentOwner; 20 } 21 22 mapping(uint256 => Book) public books; 23 uint256 public bookCount; 24 25 event BookAdded(uint256 indexed bookId, string title, string author, </pre> <p>On the right, a 'Connect with MetaMask' dialog box is open, showing the URL 'https://remix.ethereum.org' and a list of accounts. The first account is 'Account 1 (0xb7c...9bc8)' with '0.2 MATIC'. There are 'Cancel' and 'Next' buttons.</p>
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4	Open file explorer	<p>Open the extracted file and click on the folder.</p> <p>Open src, and search for utilities.</p> <p>Open cmd enter commands</p> <ol style="list-style-type: none">1.npm install2.npm bootstrap3. npm start	 <pre>180 connector.js 181 182 if (!window.ethereum) { 183 alert("Meta Mask Not Found") 184 window.open("https://metamask.io/download/") 185 } 186 187 export const provider = new ethers.providers.Web3Provider(window.ethereum); 188 export const signer = provider.getSigner(); 189 export const address = "0x7C4d36b000000000000000000000000000000000"; 190 191 export const contract = new ethers.Contract(address, abi, signer);</pre>  <pre>npm install bootstrap Microsoft Windows [Version 10.0.22621.2283] (c) Microsoft Corporation. All rights reserved. C:\Users\admin\Downloads\8_Problem_Statement_8_Book_details\Book-details\book-details\src\Page>npm install up to date, audited 1569 packages in 6s 278 packages are looking for funding run `npm fund` for details 9 vulnerabilities (2 moderate, 6 high, 1 critical) To address issues that do not require attention, run: npm audit fix To address all issues (including breaking changes), run: npm audit fix --force Run `npm audit` for details. C:\Users\admin\Downloads\8_Problem_Statement_8_Book_details\Book-details\book-details\src\Page>npm install bootstrap</pre>
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			<pre> run 'npm fund' for details 9 vulnerabilities (2 moderate, 6 high, 1 critical) To address issues that do not require attention, run: npm audit fix To address all issues (including breaking changes), run: npm audit fix --force Run 'npm audit' for details. C:\Users\admin\Downloads\8_Problem_Statement_8_Book_details\Book-details\book-details\src\Pages>npm install bootstrap added 1 package, and audited 1569 packages in 13s 278 packages are looking for funding run 'npm fund' for details 9 vulnerabilities (2 moderate, 6 high, 1 critical) To address issues that do not require attention, run: npm audit fix To address all issues (including breaking changes), run: npm audit fix --force Run 'npm audit' for details. C:\Users\admin\Downloads\8_Problem_Statement_8_Book_details\Book-details\book-details\src\Pages>npm start > book-details@0.1.0 start > react-scripts start </pre>
5	{LOCALHOST IP ADDRESS}	Copy the address and open it to chrome so you can see the front end of your project.	<p>Local: http://localhost:3000 On Your Network: http://192.168.71.166:3000</p> 