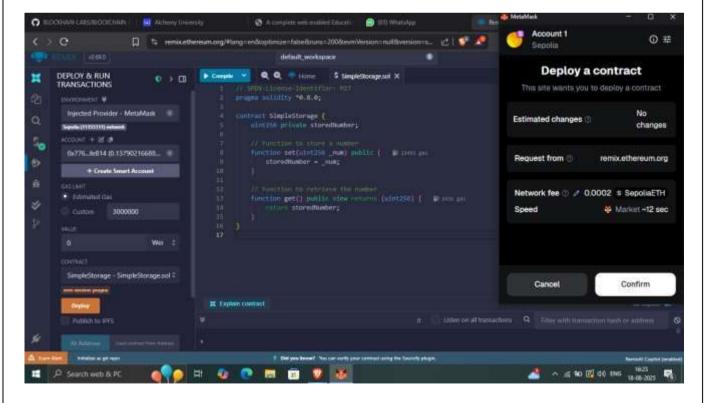
	School:		Campus:					
Company	Academic Year:	Subject Name:		Subject Code:				
University	Semester:	Program:	Branch:	Specialization:				
	Date:			_				
Applied and Action Learning (Learning by Doing and Discovery)								
Name of the	lame of the Experiement : React Start – DApp Frontend Scaffolding							
Coding	Coding Phase: Pseudo Code / Flow Chart / Algorithm							
□ Open Re	emix IDE and writ	e the SimpleStorage.sol	smart contract.					
□ Compile	the smart contract	using the Solidity com	piler to generate th	e ABI.				
☐ Deploy t	the contract on Sep	oolia Testnet using Met	aMask (Injected P	Provider).				
□ Copy the	e deployed contra	ct address.						
☐ Create a	new React projec	t using create-react-app						
☐ Inside th	e src folder, create	an ABI.js file and paste	the contract ABI.					
☐ In the pr	roject root, create a	.env file to securely sto	re the contract addr	ress and network details.				
☐ Install re	equired dependenci	es (ethers.js as primary	library, web3.js onl	ly if needed).				
☐ In App.j	s, implement walle	et connection and blocke	hain interaction log	gic using ethers.js .				
☐ Build a s	simple UI to store	and retrieve values from	the contract.					
☐ Run the	project using npm	start and test interaction	s via MetaMask po	pups.				

Software used

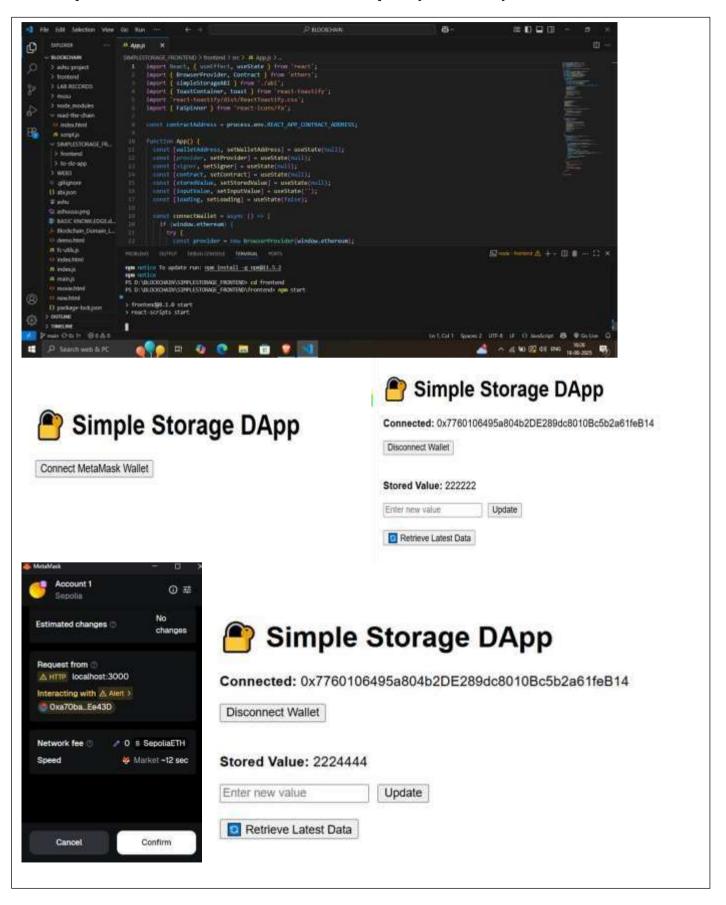
- 1. MetaMask Wallet
- 2. Remix IDE.
- 3. MS Word.
- 4. Brave for researching.

* Implementation Phase: Final Output (no error)

- 1. Firstly go to remix ide and write a smart contract on simplestorage sol and compile it.
- 2. After compilation ABI will generated.
- 3. Then go to deploy and run transactions section and choose environment as injected providermetamask, then simply deploy it.
- 4. Now we have to work on frontend first create a folder for your frontend then open terminal to install the react modules. Then create a ABI.js file inside your src folder where we have to store the abi of our smart contract and then create a .env file in the root of the project folder to dtore contract address and tectnet network.
- 5. Now in app. js write the frontend code and wallet connection code also.
- 6. Now simply move forward terminal of V.S Code just run the project with command npm start.



* Implementation Phase: Final Output (no error)



* Observations:

☐ Smart contract successfully deployed on Sepolia Testnet .
☐ MetaMask wallet connection worked with the React frontend.
☐ UI allowed users to store and retrieve values .
□ ethers.js ensured a secure and modern interaction with the contract.
☐ .env file maintained contract details securely.
☐ The setup provides a scaffold for future DApp development .

ASSESSMENT

Rubrics	Full Mark	Marks Obtained	Remarks
Concept	10		
Planning and Execution/	10		
Practical Simulation/ Programming			
Result and Interpretation	10		
Record of Applied and Action Learning	10		
Viva	10		
Total	50		

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Signature of the Stude	

Name:

Signature of the Faculty: Regn. No. :