# School of Computing Science and Engineering

## ACADEMIC YEAR 2023-24

# "Build A Decentralized App on Shardeum "

**14th September 2023.**


**By. Mr.Chirag Ravishankar**

**Mr.Rohit Gurav**


1. **Event Title:** "**Build A Decentralized App on Shardeum**"

2. **Event Date**: 14th Sept, 2023

3. **Event Conduction Duration:** 4.00 hrs (10.30 AM to2:30 PM)

4. **Name of Event Coordinator:** Prof .Avinash C Taskar, Prof.Narendra Joshi

5. **Expected Audience:** B.Tech students.

6. **Number of Students:** 108

Shardeum x Sandip University

# Workshop On
# Build A Decentralized App On Shardeum
# ( Web 3.0 & Blockchain )

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**14th September 2023 - 10 AM Onwards**

Venue : 'O' Building Seminar Hall 2nd Floor, Sandip University, Nashik

## Guest's
## Chirag Ravishankar & Rohit Gurav

Program Coordinator's

Dr. Pawan Bhaladhare | Prof. Avinash Taskar

Prof. Pushpalata Aher | Prof. Narendra Joshi | Prof. Prajakta Shirke

Student Coordinator's

Tanmay Shrimali | Nitin Salunke | Prajakta Medhe | Asad Shaikh

Note : Please Bring Your Laptop & Chargers


GPS Map Camera
Nashik, Maharashtra, India
XM8C+G7R, Nashik, Maharashtra 422213, India
Lat 19.966403°
Long 73.670436°
14/09/23 11:02 AM GMT +05:30
Google


GPS Map Camera
Nashik, Maharashtra, India
XM8C+G7R, Nashik, Maharashtra 422213, India
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Long 73.670721°
14/09/23 11:05 AM GMT +05:30
Google

## What are the Benefits of Decentralized Applications?

### 1.They're Open Source

**DApps are built on open source code, meaning that the source code is publicly available for anyone to review and contribute to. This allows for a transparent and collaborative development process, as well as encourages security and integrity of the application. With open source code, developers can easily identify potential vulnerabilities and bugs, and fix them. This allows for a more secure and stable application, as well as allowing for new features and functionalities to be added. Additionally, open source code allows for a community of developers to collaborate and contribute to the development of the application, which can lead to a more diverse and robust feature set. This also allows for a more secure application, as more eyes on the code means that potential vulnerabilities are more likely to be discovered and fixed.**

### 2. Transparent

**DApps are transparent, meaning that all transactions and interactions are recorded on a public ledger (blockchain) and can be viewed by anyone. This allows for greater accountability and trust among users. The transparency of the blockchain ensures that the data is tamper-proof and that the activities of users can be audited. This means that any bad actors can be easily identified and dealt with, creating a safer and more trustworthy environment for all users. Furthermore, transparency also allows for greater accountability and trust among users, as all actions are recorded and can be easily traced. This also allows for greater transparency and accountability among developers, as all changes to the code are recorded and can be easily traced.**

### 3. Decentralized

**DApps are decentralized, meaning that they are not controlled by a single entity and are not subject to a single point of failure. This makes them more resilient and secure than centralized applications. With a centralized application, there is a single point of failure, meaning that if that point goes down, the entire application goes down. With a decentralized application, there are multiple points of failure, meaning that if one point goes down, the application can still function. This makes DApps less vulnerable to single points of failure and attacks. Furthermore, decentralization also allows for greater autonomy and control for users, as they are not dependent on a centralized authority to govern the application. This means that users have more control over their own data and can make decisions about the direction and development of the application. Additionally, decentralization also allows for greater scalability, as the application can be spread across multiple nodes, allowing for more users and transactions to be handled simultaneously.**

### 4. Faster Development Cycles

**DApps development cycles are faster than traditional centralized applications, as they are not dependent on a single entity for development and deployment. With open**

**source code, developers can quickly and easily make changes to the application and contribute to its development. Additionally, with decentralized governance, changes can be made and implemented faster as there is no need for a centralized authority to approve and make changes. This allows for faster development and deployment, as well as faster implementation of new features and functionalities. Furthermore, faster development cycles also allow for a more agile and responsive application, which can adapt quickly to changing user needs and market conditions.**

**5. Zero Downtime**

**Most types of DApps have zero downtime, meaning that they can function continuously without interruption. This is because DApps are built on decentralized networks, which are spread across multiple nodes. This means that even if one node goes down, the other nodes can still function and keep the application running. This ensures that the application is always available and that users can access it at any time. This also allows for greater reliability and robustness, as the application can handle more traffic and transactions without interruption.**

**6. Resistance to Censorship**

**DApps are resistant to censorship, which means that they cannot be shut down or controlled by a centralized authority. This is because DApps are built on decentralized networks, which are spread across multiple nodes. This makes it difficult for a centralized authority to shut down or control the application, as it would require shutting down all the nodes. This means that DApps can be used to promote free speech and expression without fear of censorship. Additionally, this also allows for greater security, as a DApp can't be shut down by a single entity or government.**

**7. Complete Data Integrity**

**DApps ensure that data is tamper-proof and that the activities of users can be audited. This means that any bad actors can be easily identified and dealt with, creating a safer and more trustworthy environment for all users. Because DApps are built on blockchain technology, all data is recorded in a permanent and unchangeable way, meaning that it can be trusted and relied upon. This provides a more robust and secure environment for data storage, and it allows for a more transparent and auditable system.**

**8. Trustless Computation/Verifiable Behavior**

**DApps operate in a trustless environment, so that users do not have to trust a central authority to ensure the integrity of the application. Instead, the decentralized network ensures the integrity of the application through the use of consensus algorithms and cryptographic techniques.**

**Attendance:**

**SANDIP UNIVERSITY**

**SCHOOL OF COMPUTER SCIENCE & ENGINEERING**

**Workshop on " Build A Decentralized App on Shardeum"**

**Student List**

| Sr.No | NAME OF STUDENT | EMAIL-ID |
|---|---|---|
| 1 | Aaditya Bhadane | aaditya.1127@gmail.com |
| 2 | Aaditya Gajananrao Deshmukh | adityagdeshmukh9975@gmail.com |
| 3 | Abhay Sharma | as3521778@gmail.com |
| 4 | Abraham A Woart | woartabrahamabinho@gmail.com |
| 5 | Aditya Suresh Salunke | salunkeaditya111@gmail.com |
| 6 | Aditya Vishwakarma | adivishwakarma2802@gmail.com |
| 7 | Adwait Sonawane | adysonawane1544@gmail.com |
| 8 | Ajinkya Avinash Sonawane | ajinkyason51@gmail.com |
| 9 | Amam kumar | kumaraman754193@gmail.com |
| 10 | Aman Verma | akverma1426@gmail.com |
| 11 | Aniket | anipawar9028@gmail.com |
| 12 | Ankita Ahirrao | ankitaahirrao6@gmail.com |
| 13 | Ashutosh Kumar jalan | ashutosh2004.15@gmail.com |
| 14 | Bhavesh Patil | bp012114@gmail.com |
| 15 | Chaitanya Tatar | chaitanyatatar8@gmail.com |
| 16 | Chirag Malviya | chiragmalviya007@gmail.com |
| 17 | DHANANJAY SALWE | 8093guru@gmail.com |
| 18 | DIMPAL CHITTE | dimpalchitte52@gmail.com |
| 19 | Edidiong Iseh | isehairdeejay@gmail.com |
| 20 | Gaddam.jayasimha Reddy | gaddamjayasimhareddy77@gmail.com |
| 21 | Ganesh Jauk | jaukganesh294@gmail.com |
| 22 | Gangurde Pooja Hanumanta | poojagangurde406@gmail.com |
| 23 | Gaurav Deore | gauravdeore1704@gmail.com |
| 24 | Gaurav Dipak Pawar | gauravpawar9540@gmail.com |
| 25 | Gaurav Hire | gauravhire2001@gmail.com |

| | | |
|---|---|---|
| 26 | Gaurav satish kadam | gauravkadam493@gmail.com |
| 27 | Gayatri Pawar | gcpp8879@gmail.com |
| 28 | Harish lute | harishlute4@gmail.com |
| 29 | Harshada Patil | harshadapatil229@gmail.com |
| 30 | Harshala sainath desale | desaleharshala34@gmail.com |
| 31 | Hemant | hgite2004@gmail.com |
| 32 | hrithik chandraket yadav | hrithikyadav05@gmail.com |
| 33 | Irshad | irshadshah3935@gmail.com |
| 34 | JADHAV RITESH RAJENDRA | jritesh709@gmail.com |
| 35 | Jagadeesh | katrujagadeesh@gmail.com |
| 36 | Jagdish Patil | jagdishpatil5087@gamil.com |
| 37 | Jignesh chaudhari | jigneshchaudhari7894@gmail.com |
| 38 | Jumman yelne | jummanyelne@gmail.com |
| 39 | Kalpesh Patil | kalpeshpatil1108@gmail.com |
| 40 | KALYANI GANESH BORDE | kalyaniborde2003@gmail.com |
| 41 | Kamal Oladele | oladelekml@gmail.com |
| 42 | Karan Madhukar Chavan | karanchavanofficial@gmail.com |
| 43 | Kaustubh Nandakumar Ghodmare | ghodmarekaustubh007@gmail.com |
| 44 | Khan Naziya Shahjahan | naziyakhan41724@gmail.com |
| 45 | Krishna Bhavsar | krishnabhavsar7425@gmail.com |
| 46 | Kunaal Solanki | solankikunaal6@gmail.com |
| 47 | Kunal Nagarale | kunalnagarale92@gmail.com |
| 48 | Kunal Puri | purikunal11@gmail.com |
| 49 | kupakwashe mapuranga | kupakwashemapuranga@gmail.com |
| 50 | Laukik Sanjay kande | kandelaukik@gmail.com |
| 51 | Mayur Chaudhari | mayurchaudhari29042004@gmail.com |
| 52 | Mayur ravsaheb patil | mayurpatil.mail@gmail.com |
| 53 | Mayur Uttam Gaikwad | mayurgaikwad408@gmail.com |
| 54 | MOHAMMAD AAQIB | ahmads374@gmail.com |

| | | |
|---|---|---|
| 55 | MRUNAAL PRASAD CHINCHOLIKAR | mrunaalchincholikar20@gmail.com |
| 56 | Mrunalini Vishwadip Deshmukh | versatilemru333@gmail.com |
| 57 | Nakul Pise | nakulpise831@gmail.com |
| 58 | Nakul Prashant Jadhav | nakuljadhav80577@gmail.com |
| 59 | Navneet Pramod Tayade | prajwaltayade09@icloud.com |
| 60 | Nikhil Shakya | nikhilshakya1308@gmail.com |
| 61 | Nikita Singh | kiran.nsk9373@gmail.com |
| 62 | Omkar Bajirao pawar | op8557@gmail.com |
| 63 | Om Wallalwar | wallalwarom@gmail.com |
| 64 | Parth Santosh Mahadik | mahadikparth004@gmail.com |
| 65 | Pavan Teja yadav | pavantejayadav1@gmail.com |
| 66 | Prachi Bharat Mhaske | prachimhaske23@gmail.com |
| 67 | Prajakta Ravi Medhe | prajaktarmedhe@gmail.com |
| 68 | Pranav Kshirsagar | pranavksagar28@gmail.com |
| 69 | Prasad Shrikant Ghumare | prasadghumare8888@gmail.com |
| 70 | Prashant Diwakar | diwakarprashant440@gmail.com |
| 71 | Pratham Kshirsagar | prathamkshirsagar1@gmail.com |
| 72 | Pratik | shindepratik447@gmail.com |
| 73 | Rahul Ner | rahul.ner2003@gmail.com |
| 74 | Rehan kadri | rehankadri280@gmail.com |
| 75 | Rujal ladhe | rujal.ladhe21@gmail.com |
| 76 | Rushikesh Gajanan Deshmukh | rd8834172@gmail.com |
| 77 | Rushikesh Shirwalkar | rushikeshshirwalkar@gmail.com |
| 78 | Rutuja valmik hatkar | rutujahatkar232@gmail.com |
| 79 | Sachin dakhore | sdakhore267@gmail.com |
| 80 | Sahil Anil Nikam | sahilnikam133@gmail.com |
| 81 | Sakshi Mehta | sakshimehta0415@gmail.com |
| 82 | Samarth Gite | samarthgite02@gmail.com |
| 83 | Samarth Khudase | samarthbk2005@gmail.com |

| | | |
|---|---|---|
| 84 | Samiksha Sachin Balshete | samikshabalshete@gmail.com |
| 85 | Samruddhi Mulherkar | samruddhidm8003@gmail.com |
| 86 | Sandeep Kumar | awasthisandip60@gmail.com |
| 87 | Sanika Kishor Pokharkar | sanudi0809@gmail.com |
| 88 | Shaikh Asad | shaikhasad8899@gmail.com |
| 89 | Shams Mansoori | shamsmansoori567@gmail.com |
| 90 | shantanu chinchle | shantanuc.etc_ioe@bkc.met.edu |
| 91 | Shashikant shivaji bagad | bshashikant25@gmail.com |
| 92 | Shivam Pandey | shivampandey2575@gmail.com |
| 93 | Shivraj Pawar | shivrajpawar6906@gmail.com |
| 94 | SHRIRANG BHARDWAJ | shrirang.bhardwaj@gmail.com |
| 95 | Shubham Pravin Patil | shubhampatil992151@gmail.com |
| 96 | Snehal Mahesh Mogal | snehalmogal11@gmail.com |
| 97 | Snehal Shirsath | shirsathsnehal25@gmail.com |
| 98 | Tanaka Michael Charumbira | tanaka02charumbira@gmail.com |
| 99 | Tanisha Satish Agrawal | tanishajindal223@gmail.com |
| 100 | Tanmay Rajiv Shrimali | shrimalitanmay8@gmail.com |
| 101 | Tejas ghuge | tejasghuge2222@gmail.com |
| 102 | Vaibhav | vaibhavpatil0313@gmail.com |
| 103 | Vaishnavi Patil | vaishnavipatil3102003@gmail.com |
| 104 | Vaishnavi Sanjay Khairnar | vaishnavikhairnar07@gmail.com |
| 105 | Varun patil | varun2003patil@gmail.com |
| 106 | Vedant Bharambe | srvedantb47@gmail.com |
| 107 | Vishal | vishalbagda84@gmail.com |
| 108 | Yogesh Ghanghav | yogeshghanghav54@gmail.com |
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