



AMBALIKA INSTITUTE OF MANAGEMENT & TECHNOLOGY

Role Play Activity Big Data
Topic: MapReduce & Hadoop Simulation

INTRODUCTION -This role-play session is designed to provide participants with a practical understanding of Hadoop and MapReduce by simulating a real-world big data processing scenario. Each participant will take on a specific role to collaboratively explore Hadoop's architecture, MapReduce programming, business insights, and fault tolerance mechanisms.

Participant and role assignments: Instructor (Facilitator): Guides the discussion and ensures smooth execution. Hadoop Expert Explains the fundamental architecture of Hadoop, including NameNodes and DataNodes. Developer Writes the MapReduce job to analyze customer reviews. Data Engineer Discusses fault tolerance and node failures in Hadoop. Business Analyst Interprets the results and explains how businesses can leverage them.

Top Performing Groups

First Rank (I) - Group 4

- **Adarsh Singh**
- **Ujjwal**
- **Sujal**
- **Suraj**

This group effectively explained each topic in a well-structured manner, demonstrating a deep understanding of MapReduce and Hadoop. Their clear and precise explanations made their presentation stand out.

Second Rank (II) - Group 1

- **Shraddha**
- **Shagun**
- **Summit**
- **Anmol**

The teamwork in this group was commendable. They collaborated efficiently and ensured that each member contributed meaningfully to the discussion. Their ability to work as a team made their presentation impactful.

Third Rank (III) - Group 5

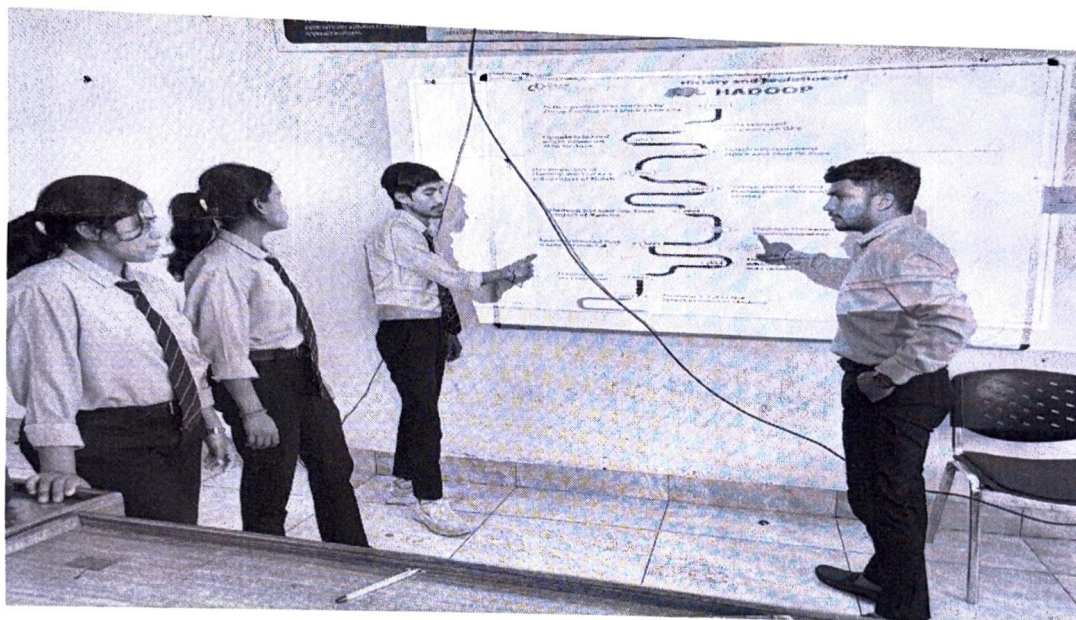
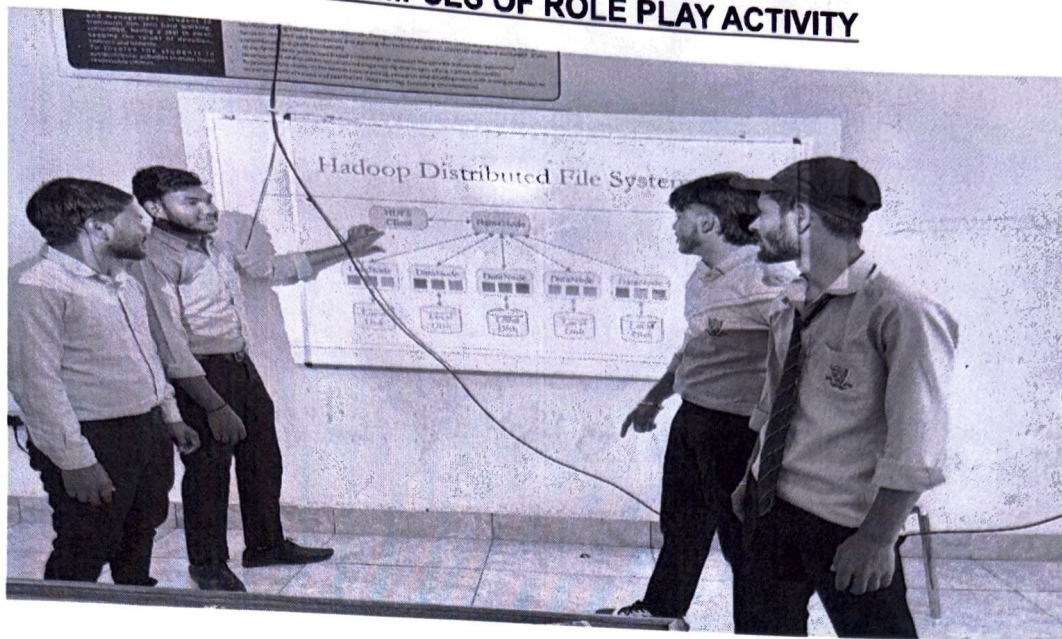
- **Vaibhav**
- **Vivek**
- **Mahesh**
- **Harsh**

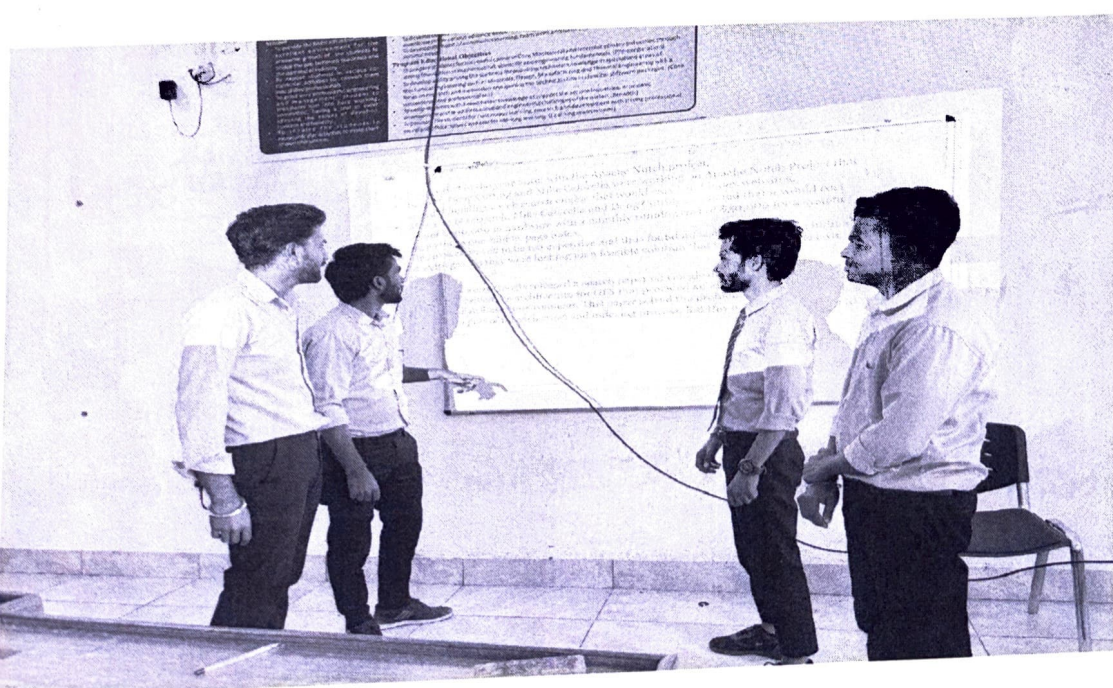
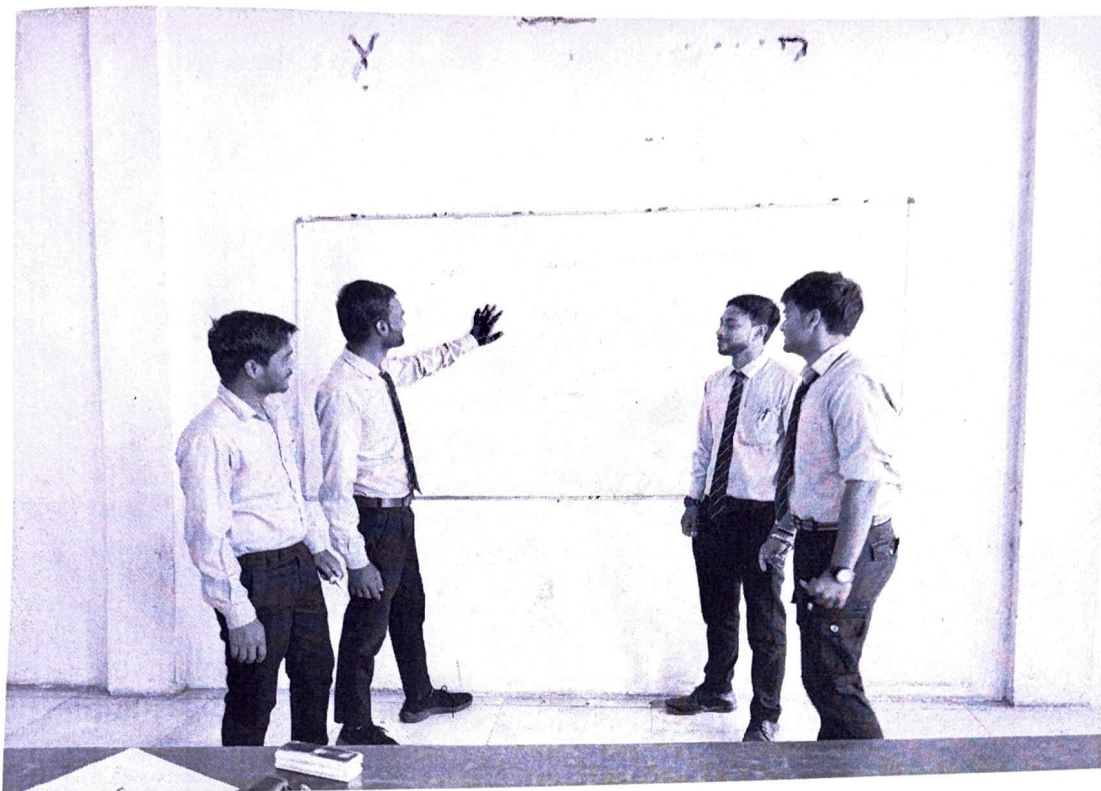
This group delivered a well-organized presentation with strong grammatical accuracy and analytical depth. Their explanation of the topic was clear, and their structured approach enhanced the overall effectiveness of their presentation.

Conclusion

The role-play activity was a great success, allowing students to actively engage with the concepts of MapReduce and Hadoop. The students demonstrated commendable efforts, with Group 4 excelling in topic explanation, Group 1 showcasing strong teamwork, and Group 5 delivering a well-structured presentation. Overall, the activity was an effective learning experience for all participants.

GLIMPSES OF ROLE PLAY ACTIVITY







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Role Play

Attendance Sheet

Course Name: <u>B.Tech</u>	Date: <u>06/03/25</u>
Branch: <u>CSE</u>	Year: <u>3rd</u>
Section: <u>3C</u>	Instructor Name: <u>Mrs Anifa Khari</u>
Topic Name: <u>Heap & Map Reduce</u>	

Sr. No	Roll No.	Name of Student	Sign
1	2303630109036	Shraddha Gupta	Shraddha
2	2303630109033	Shagun Gupta	Shagun
3	2303630109037	Sumit Kumar	Sumit
4	2303630109009	Anmol	Anmol
5	2303630109002	Abhishek Patel	Abhishek
6	2203630100167	Utkarsh Yadav	Utkarsh
7	2103630100114	Piyush Mandal	Piyush K. Mandal
8	2103630100122	Raj Sharma	Raj Sharma
9	2203630100173	Vishal Kumar Phoruk	Vishal
10	2203630100154	Siddhant Kumar	Siddhant
11	2203630100172	Vishal Kumar	Vishal
12	2303630109029	Sandeep Maurya	Sandeep
13	2303630109007	Abhishek Patel	Abhishek Patel
14	2303630109004	Adarsh Singh	Adarsh
15	2203630100165	Ujjwal Tiwari	Ujjwal
16	2203630100150	Sujal Sharma	Sujal
17	2203630100161	Surya Talswar	Surya
18	2203630100160	Vaibhav Kumar	Vaibhav
19	2203630100174	Vivek Kumar	Vivek
20	2303630109019	Mehesh Kumar	Mehesh
21	2303630109016	Harsh Pandey	Harsh
22	2203630100154	Shivani Kumari	Shivani
23	2303630109020	Rupali Kumari	Rupali
24	2303630109031	Sanjivni	Sanjivni
25	2303630109013	Devesh Kumar	Devesh
26	2203630100176	Yogesh Singh Bisht	Yogesh
27	2303630109014	Faique Sharif	Faique
28	2303630109090	Vishal Kumar (2)	Vishal
29	2203630100170	Vikash Yadav	Vikash
30	2203630100156	Srishti Rastogi	Srishti
31	2203630100164	Tannu	Tannu
32	2303630109014	Anshika Yadav	Anshika
33	2303630109010	Khusboo	Khusboo
34	2203630100166	Unnati Kumari	Unnati
35	2303630109015	Umi Tanya	Umi
36	2203630100155	Sheha	Sheha
37	2203630100151	Shilpi Kumari	Shilpi

Course Name: B.Tech		Date: 6/03/25								
Branch: CSE		Year: 3rd								
Section: 3C		Instructor Name: Arifa Khan								
Topic Name: Hadoop & Hadoopreduce										
Sr. No	Roll No.	Group	Name of Student	Role	Content Accuracy (5)	Presentation Skills (5)	Creativity (5)	Team Collaboration (5)	Total Score	Remarks
1	2303630109036	1	Shradha Gupta	Hadoop Expert	5	5	5	5	20	
2	2303630109053	1	Chopun Gupta	Developer	5	5	5	5	20	
3	2303630109087	1	Samir Kumar	Data Engineer	5	5	5	5	20	
4	2303630109009	1	Anmol	Business Analyst	5	4	5	5	19	
5	2303630109002	2	Ashish Patel	Hadoop Expert	5	4	5	5	19	
6	2203630100167	2	Vikrant Yadav	Developer	4	4	4	4	16	
7	2103630100114	2	Piyush Mandal	Data Engineer	5	5	4	5	19	
8	2103630100082	2	Raj Sharma	Business Analyst	5	4	5	4	18	
9	2203630100173	3	Vishal Kumar Dhenuk	Hadoop Expert	5	4	5	5	19	
10	2203630100154	3	Siddhant	Developer	4	4	5	4	17	
11	2203630100172	3	Vishal Kumar	Data Engineer	5	4	5	5	19	
12	2303630109029	3	Sandeep Maurya	Business Analyst	4	4	5	4	17	
13	2303630109004	4	Aman Singh	Hadoop Expert	5	5	5	5	20	
14	2203630100165	4	Vijay Triwari	Developer	5	5	5	5	20	
15	2203630100150	4	Sujit Sharma	Data Engineer	5	4	5	5	19	
16	2203630100061	4	Surya Jainwal	Business Analyst	5	5	5	5	20	
17	2203630100168	5	Vaibhav Kumar	Hadoop Expert	5	4	5	4	18	
18	2203630100174	5	Vivek Kumar	Developer	5	5	5	4	19	
19	2303630109019	5	Manish Kumar	Data Engineer	5	5	5	4	19	
20	2303630109016	5	Harsh Pandey	Business Analyst	5	5	5	4	19	

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