Expert Lecture on “Project Flow Design”

The Department of Computer Engineering and Department of Computer Applications of J. C. Bose University of Science and Technology, YMCA organized an online expert lecture on “Project Flow Design" for the students of B.Tech 4 Sem (CE, IT) and MCA 4 Sem students. The lecture was conducted on 7th July 2021 and was attended by more than 200 participants. Dr. Rashmi, Dr. Preeti and Ms. Shivi were the Program Coordinators of this expert lecture.

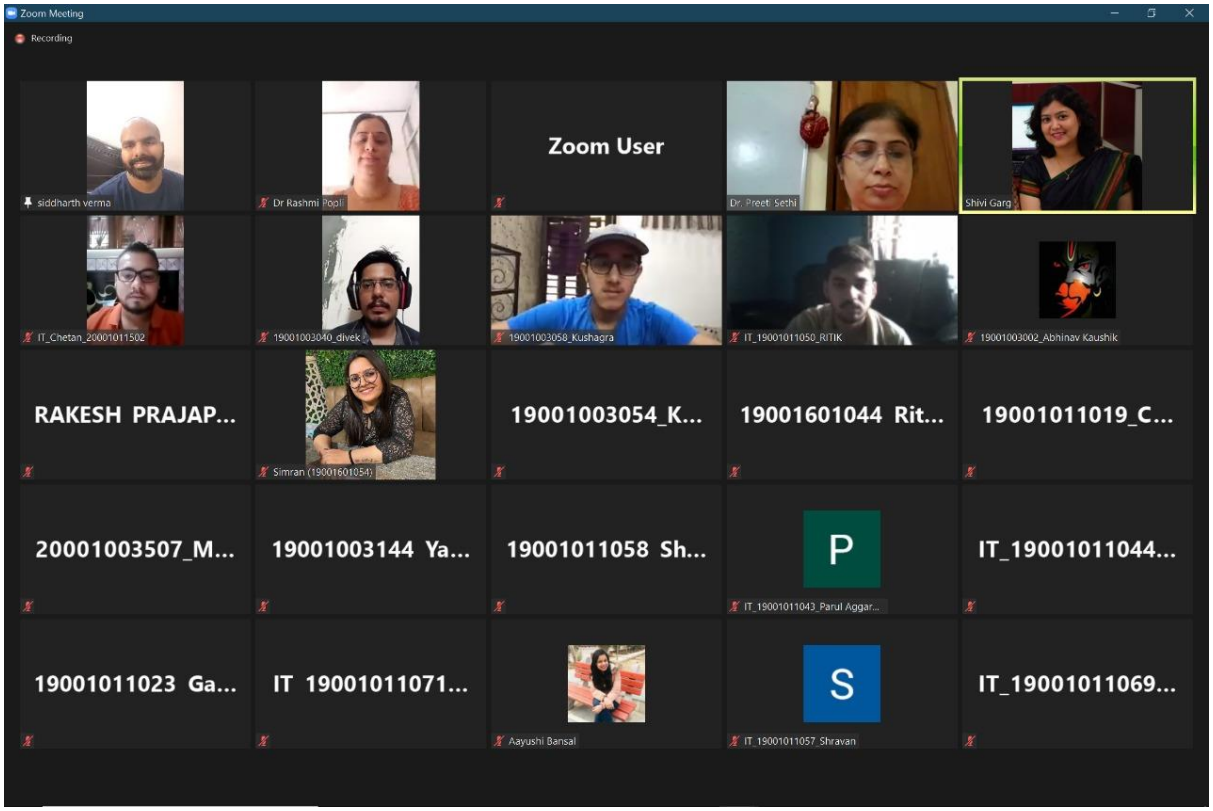
The lecture was presided over by Ms. Shivi Garg. She welcomed the resource person, Mr. Siddharth Verma and extended gratitude for sparing valuable time to deliver an online lecture to the students. She further acquainted the audience about the rich experience of the Mr. Siddharth as Senior Software Developer in Manipal Business Solutions. Mr. Siddharth Verma has more than 13 years of experience in various contemporary development platforms like Java, .net, .Net MVC, Android etc. He has a fondness for developing workflow of sophisticated software system.

In the lecture, Mr. Verma discussed in detail about the software development and design techniques. He started with software development methodologies like Quality Assurance, Release to market, Development, Design, Deployment etc. Waterfall model of designing along with Agile Methodologies were also discussed in brief. He emphasised that design process should not suffer from a ‘Tunnel Vision’ and how a good designer should consider alternate approaches based on requirement of the problem, resources available etc.

Session continued with analysis of Data Flow Modelling that included concepts such as Data Flow Diagrams, I/O Descriptions, External Entities, Context Diagrams etc. Different levels in Data Flow Diagram were then discussed by Mr. Verma. He also demonstrated bug resolution through a bug redressal system called ‘MantisBT’. He explained how developers should really tackle challenges in designing through real life examples.

Mr. Verma further demonstrated how to make classes/functions reusable and modular through designing a program in Java language. Examples of Library Management System were also explained through GitHub Repositories. Expert Lecture was concluded with a Q&A session, where students asked questions about Sprints, Agile Scrum development, career opportunities in Designing/Programming etc.

The session concluded with a group photograph and the vote of thanks by Ms. Shivi Garg and Dr. Preeti Sethi. This fruitful session was appreciated by one and all present.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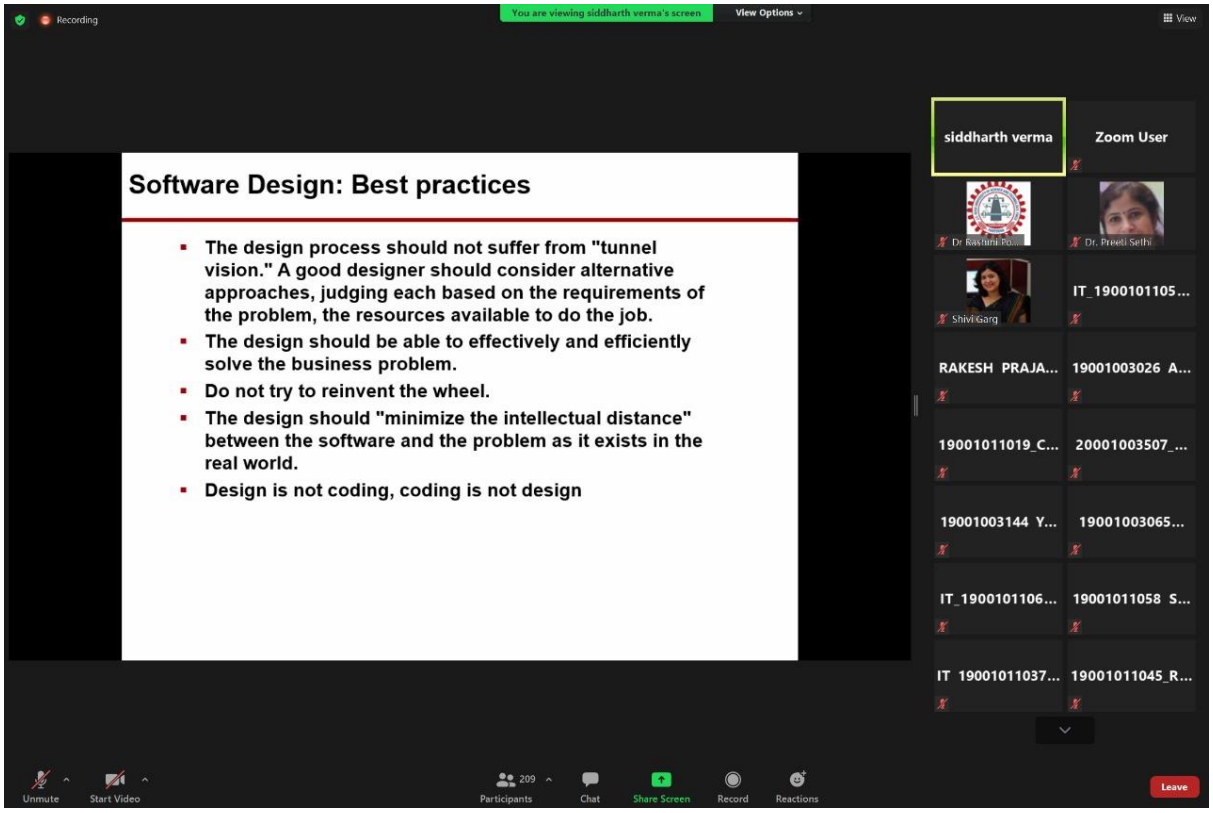
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Software Design: Best practices
The design process should not suffer from "tunnel vision." A good designer should consider alternative approaches, judging each based on the requirements of the problem, the resources available to do the job.
The design should be able to effectively and efficiently solve the business problem.
Do not try to reinvent the wheel.
The design should "minimize the intellectual distance" between the software and the problem as it exists in the real world.
Design is not coding, coding is not design
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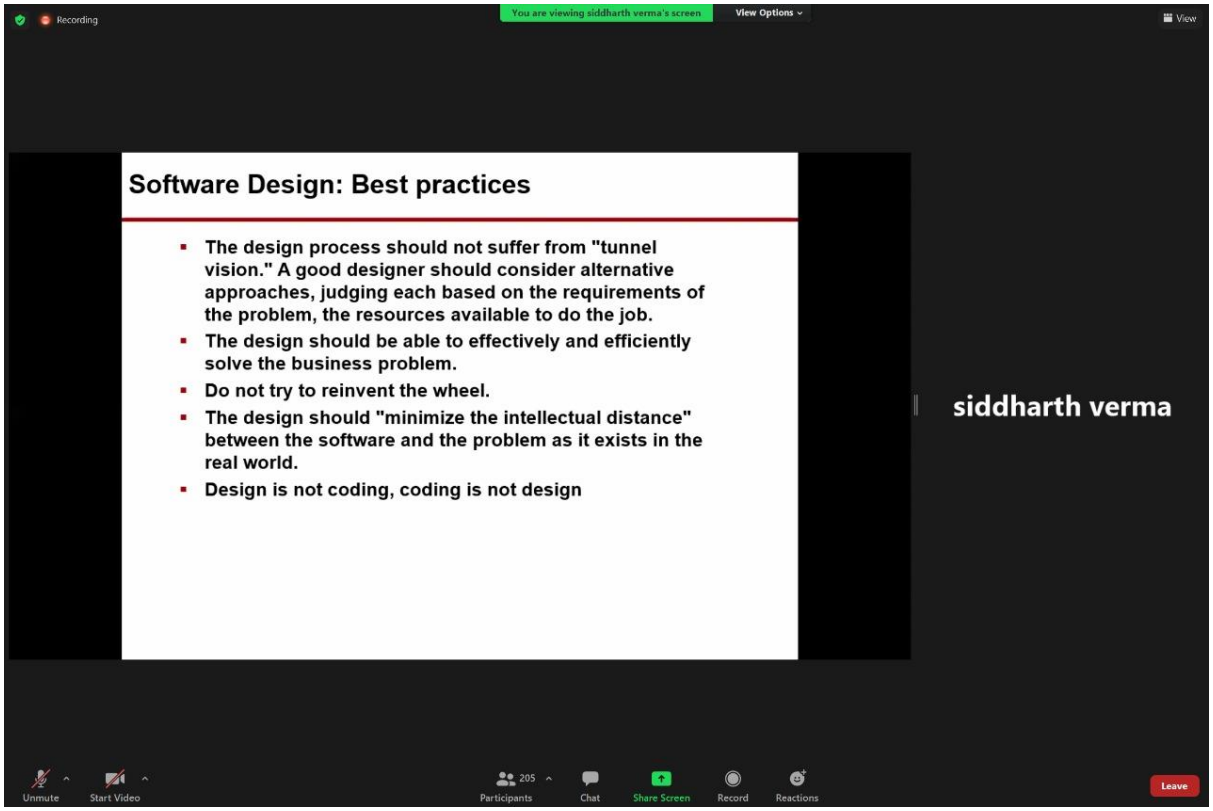
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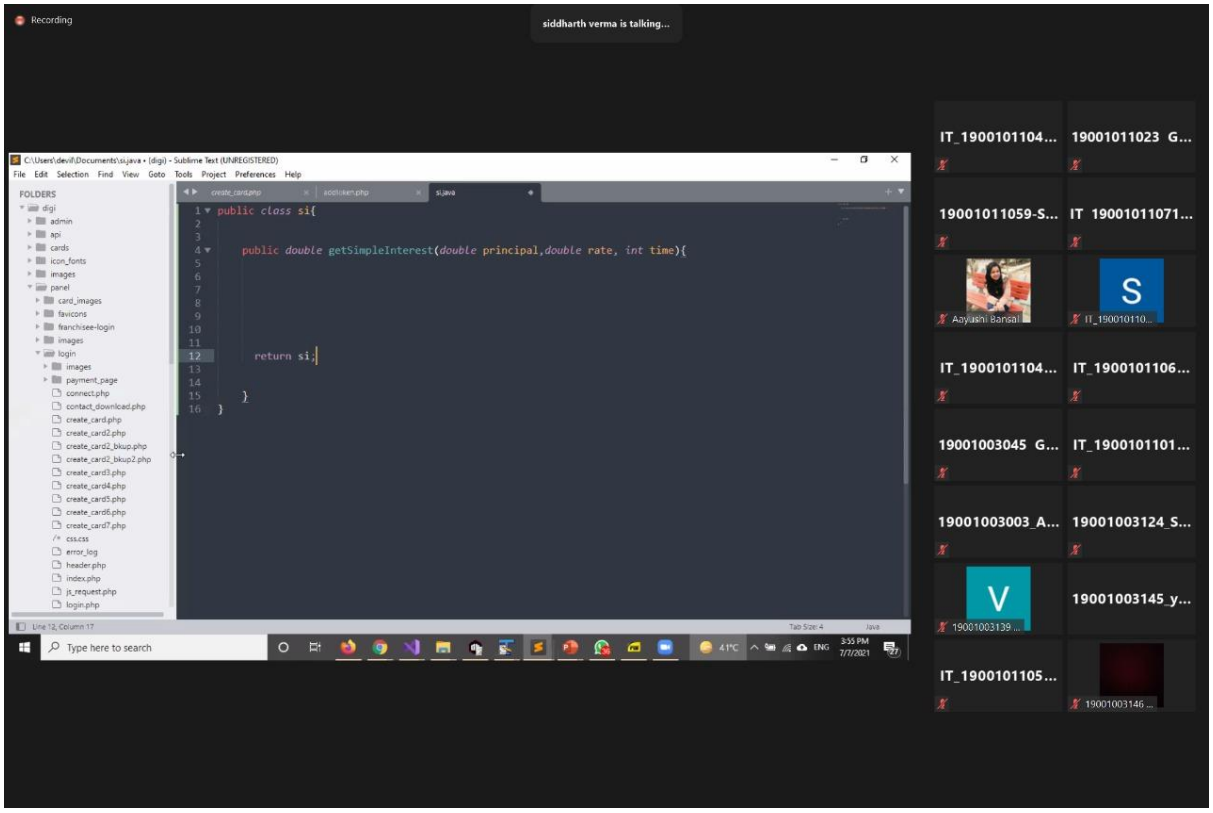
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public double getSimpleInterest(double principal,double rate, int time){
return si;
}
}
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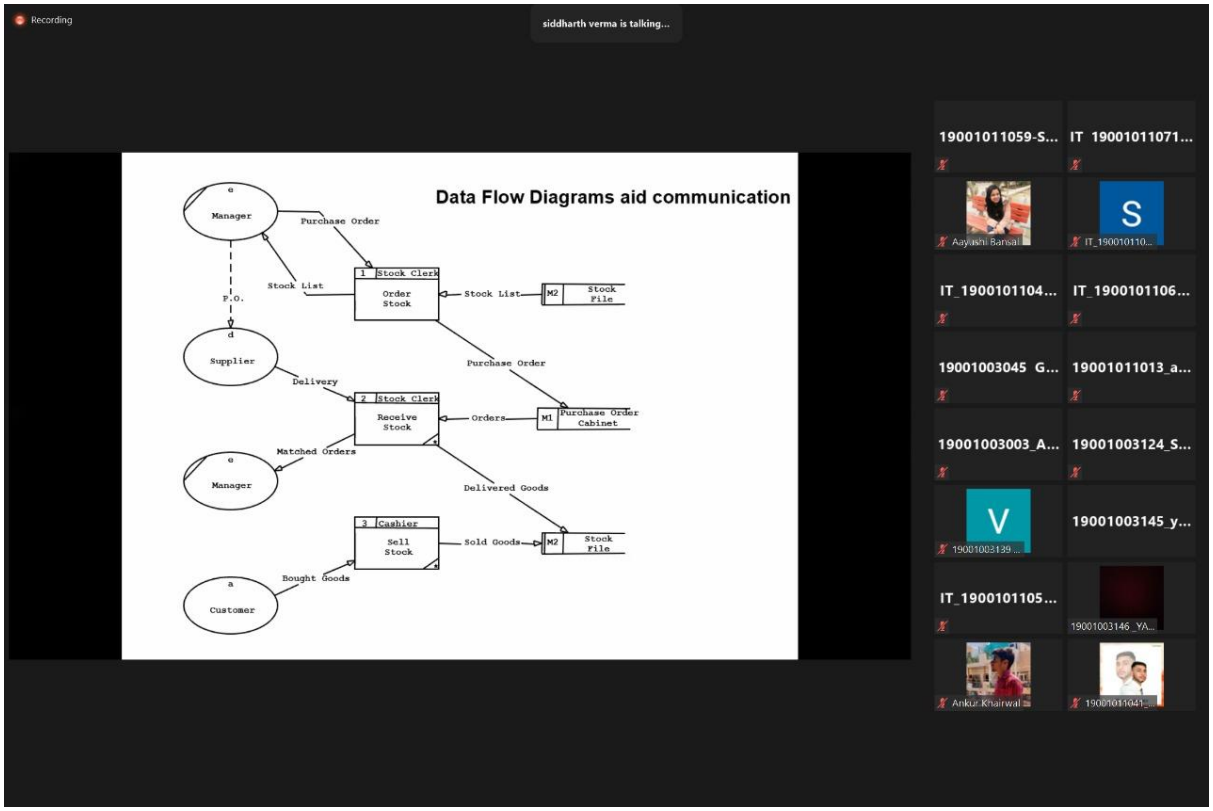
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Data Flow Diagrams aid communication
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Stock List
F.O.
1 Stock Clerk
Order Stock
Stock List
M2
Stock File
d
Supplier
Delivery
Purchase Order
2 Stock Clerk
Receive Stock
Orders
M1
Purchase Order Cabinet
Matched Orders
e
Manager
Delivered Goods
3 Cashier
Sell Stock
Sold Goods
M2
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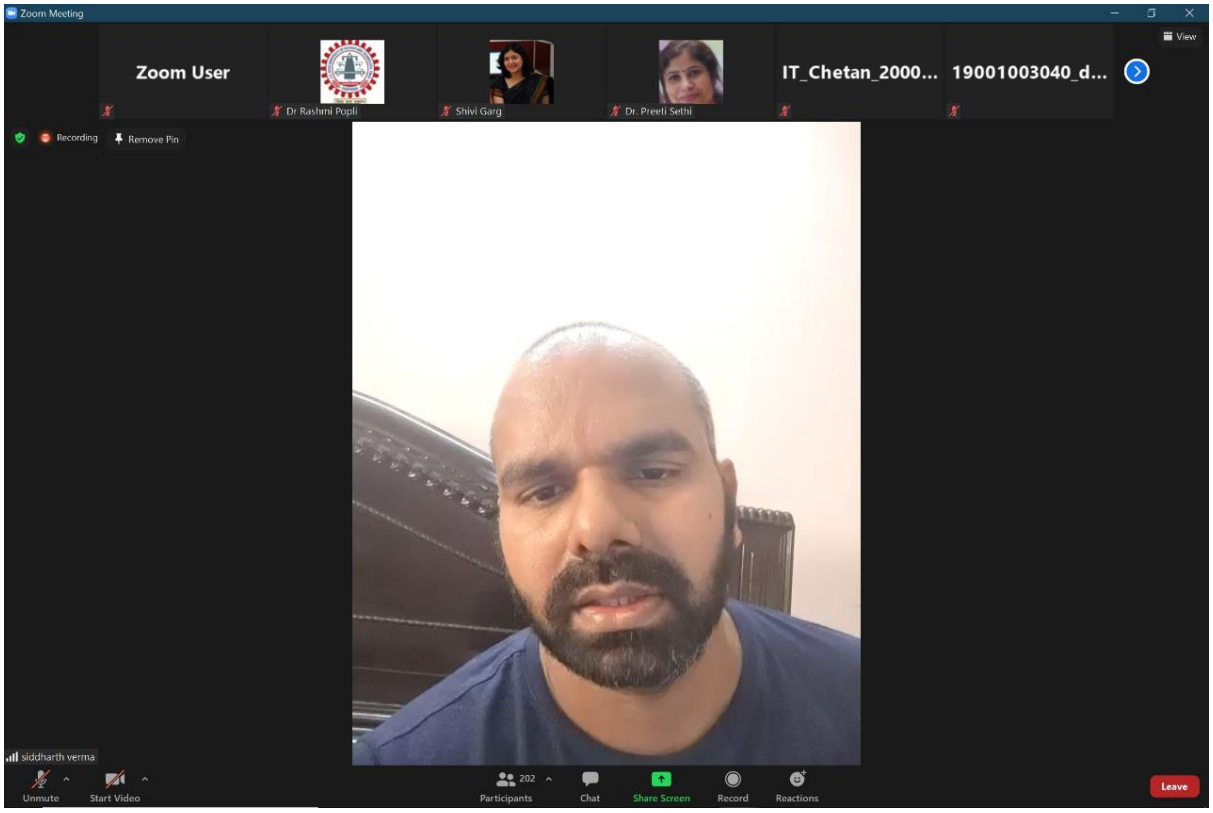
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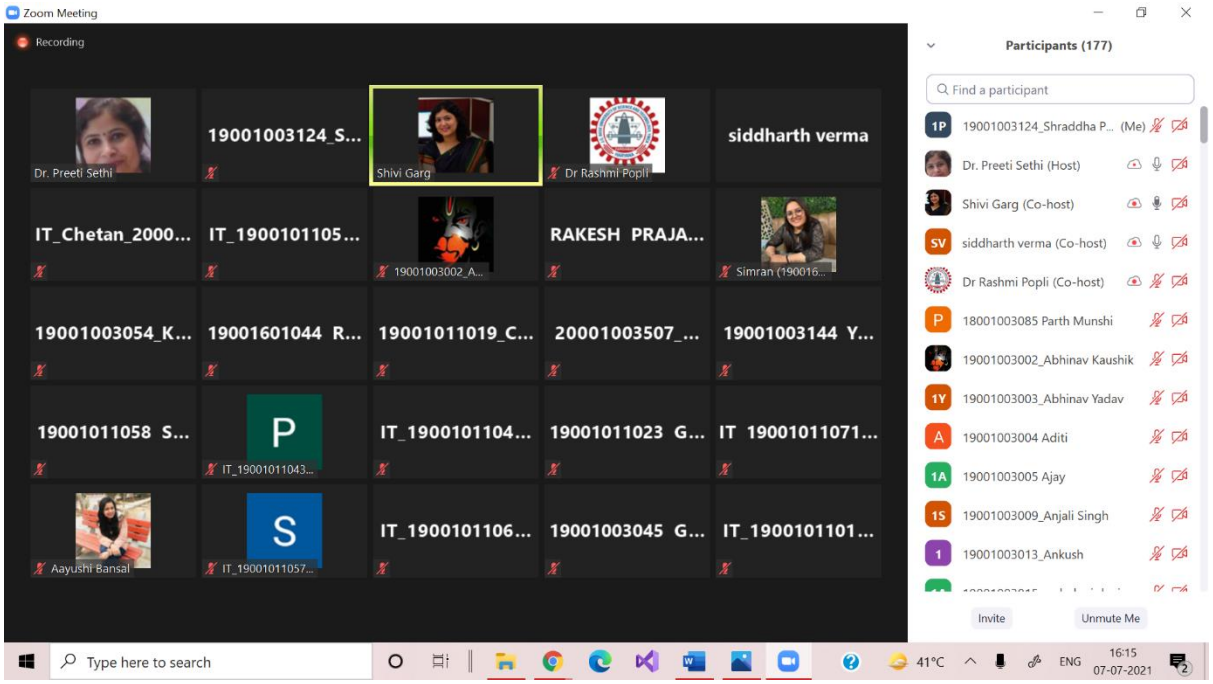
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Shivi Garg (Co-host)
siddharth verma (Co-host)
Dr Rashmi Popli (Co-host)
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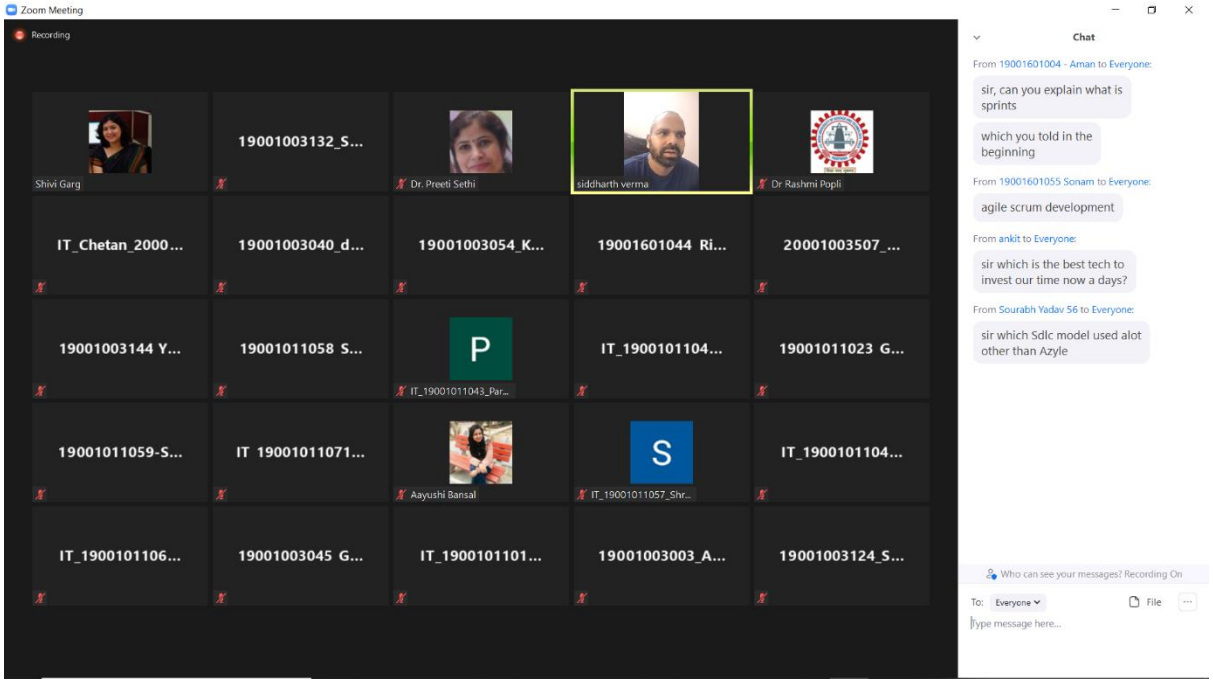
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Chat
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which you told in the beginning
From 19001601055 Sonam to Everyone:
agile scrum development
From ankit to Everyone:
sir which is the best tech to invest our time now a days?
From Sourabh Yadav 56 to Everyone:
sir which Sdlc model used alot other than Azyle
Who can see your messages? Recording On
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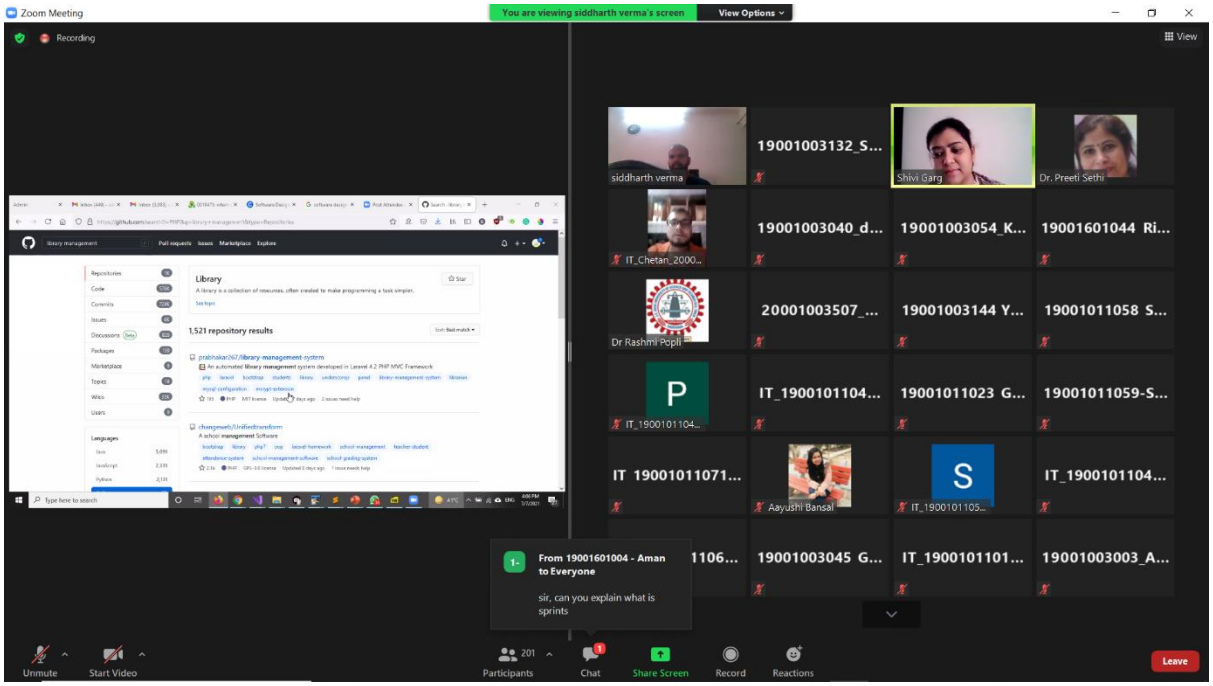
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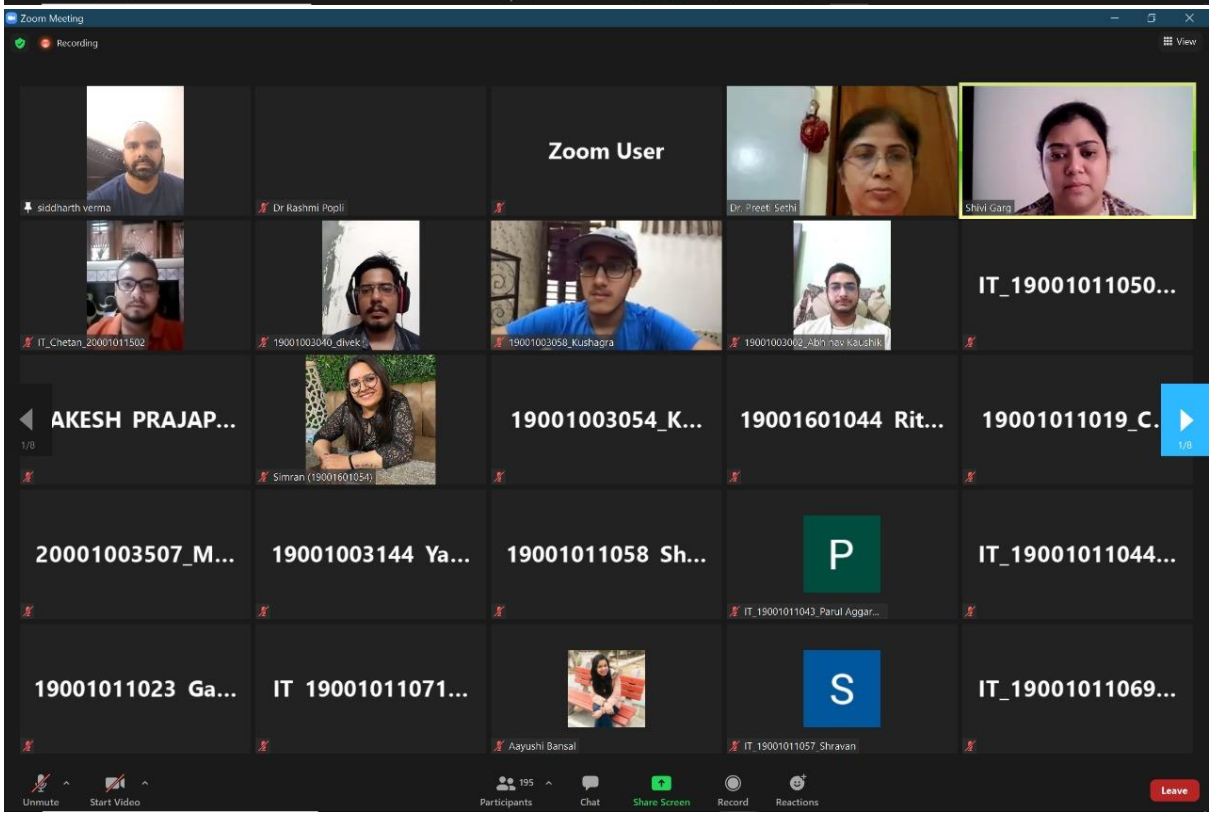
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