Jansons Institute of Technology

Karumathampatti, Coimbatore – 641 659

Report

Name of the Program / Activity / Event / Others	Introduction to React Native
Date & No. of days	19-10-2021 & 1 Day (4.30 PM – 5.30 PM)
Organized by	Department of Computer Science and Engineering
In association with	Andrios CLUB
Venue	Online
Participants/ Beneficiaries	Students

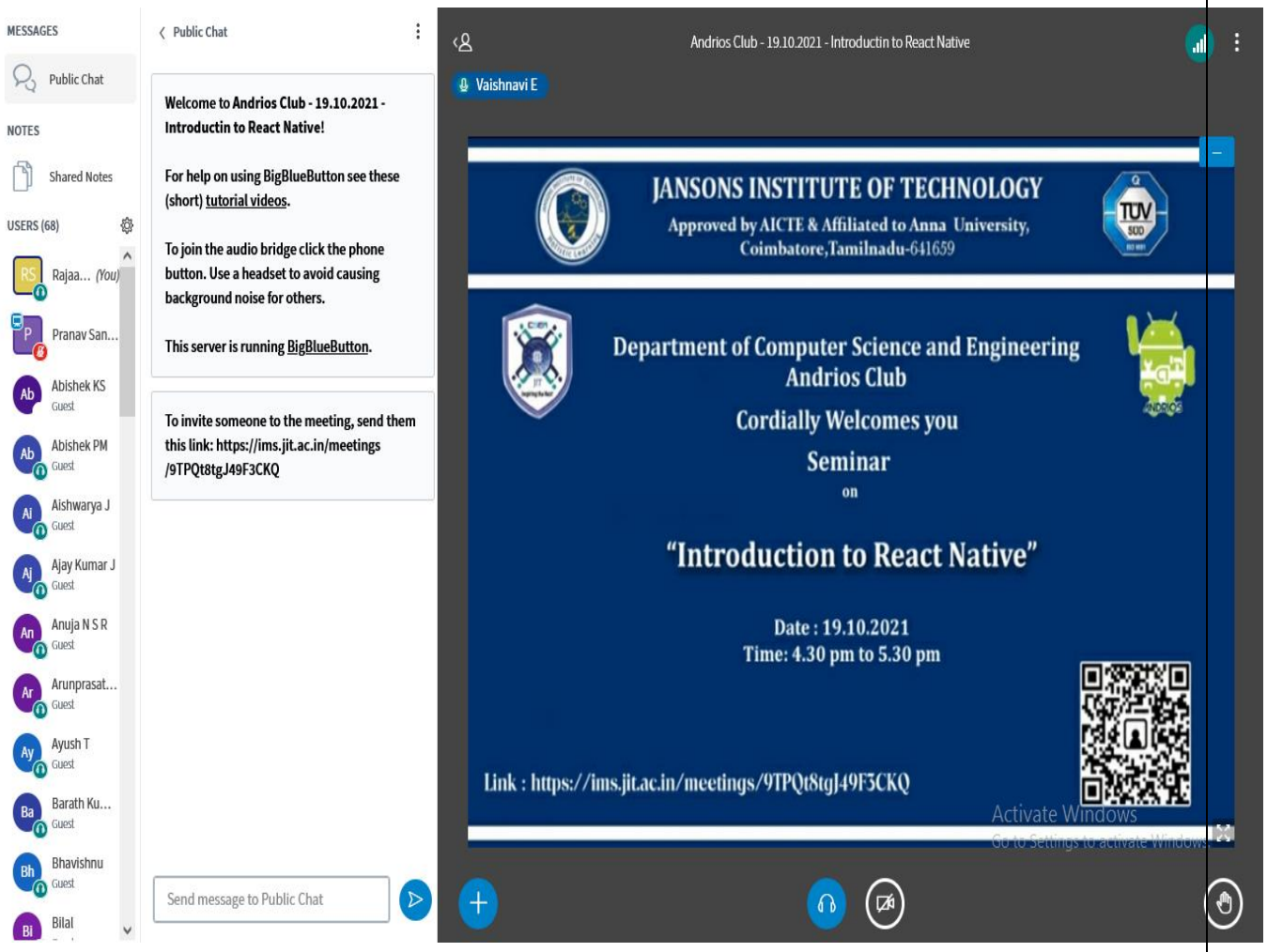
Event brief (500 words with photo):

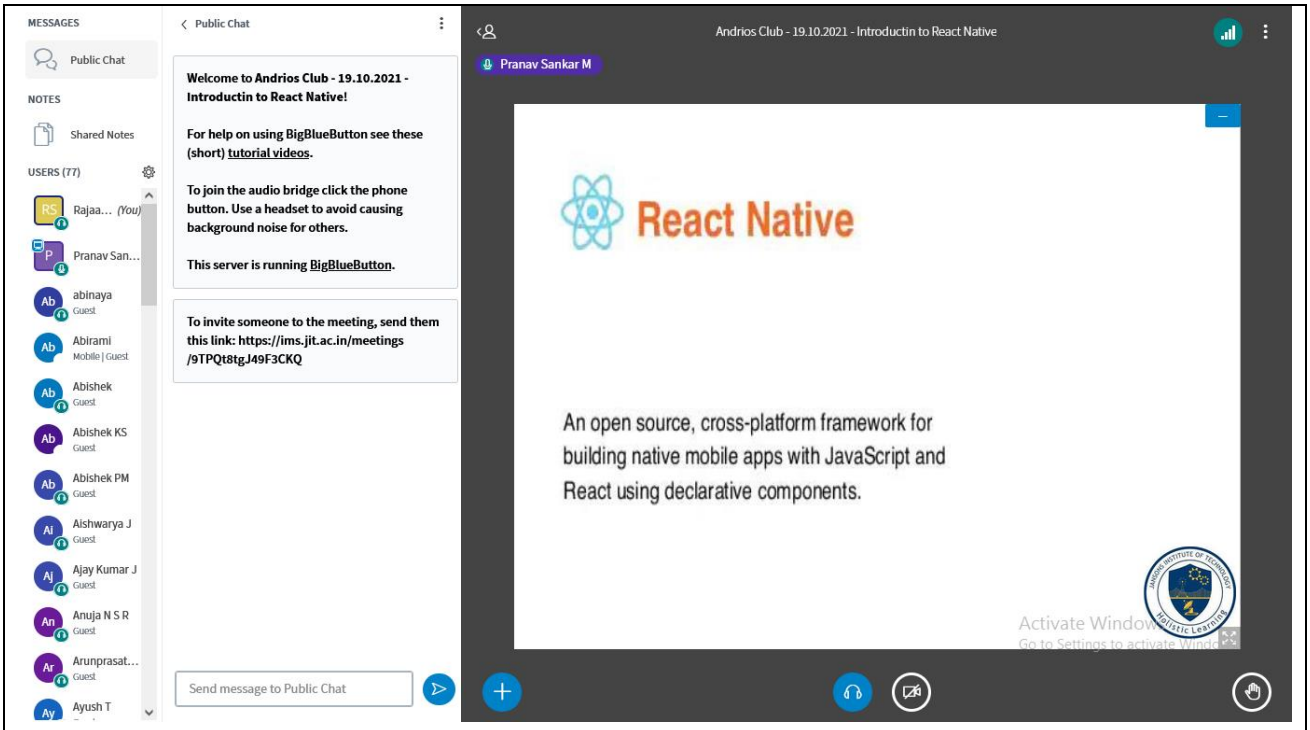
The Online Webinar on "**Introduction to React Native**" was conducted by the Department of Computer Science and Engineering in association with Andrios Club on 19.10.2021 via Online. The Knowledge sharing Program was designed for students to enhance their knowledge towards developing an Android mobile application. In this, a detailed about 'A Cross Platform for Building Native Mobile Apps with JavaScript and React using Declarative Components' was explained to the members of the club Mr. Pranav Sankar.M of Final CSE. 93 internal participants (Students) had an effective knowledge sharing session.

The students Learned about React Native and its Architecture

- ✓ Open-source UI software framework which is created by Facebook.
- ✓ It is used to develop applications for Android TV, iOS, macOS, Web App and Windows by enabling developers to use the React framework along with native platform capabilities. It is also being used to develop virtual reality applications at Oculus.
- ✓ Architecture of React Native
  - The working principles of React Native are virtually identical to React except that React Native does not manipulate the DOM via the Virtual DOM.
    It runs in a background process (which interprets the JavaScript written by the developers) directly on the end-device and communicates with the native platform via serialized data over an asynchronous and batched bridge.
  - React components wrap existing native code and interact with native APIs via React's declarative UI paradigm and JavaScript.
  - While React Native styling has a similar syntax to CSS, it does not use HTML or CSS. Instead, messages from the JavaScript thread are used to manipulate native views.

	React Native also allows developers to write native code in languages such as Java or Kotlin for Android, Objective-C or Swift for iOS, and C++/WinRT or C# for Windows which makes it even more flexible. Microsoft builds and maintains React Native for Windows and React Native for macOS and Android.
Outcomes	Students gained knowledge about React Native and its areas of implementation.
Feedback	The session ended with very positive feedback from the participants' who are in the feedback session expressed their sincere thanks for organizing an effective knowledge sharing program and also expressed their gratitude to the college Management for providing this opportunity.

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Welcome to Andrios Club - 19.10.2021 - Introductin to React Native!
For help on using BigBlueButton see these (short) tutorial videos.
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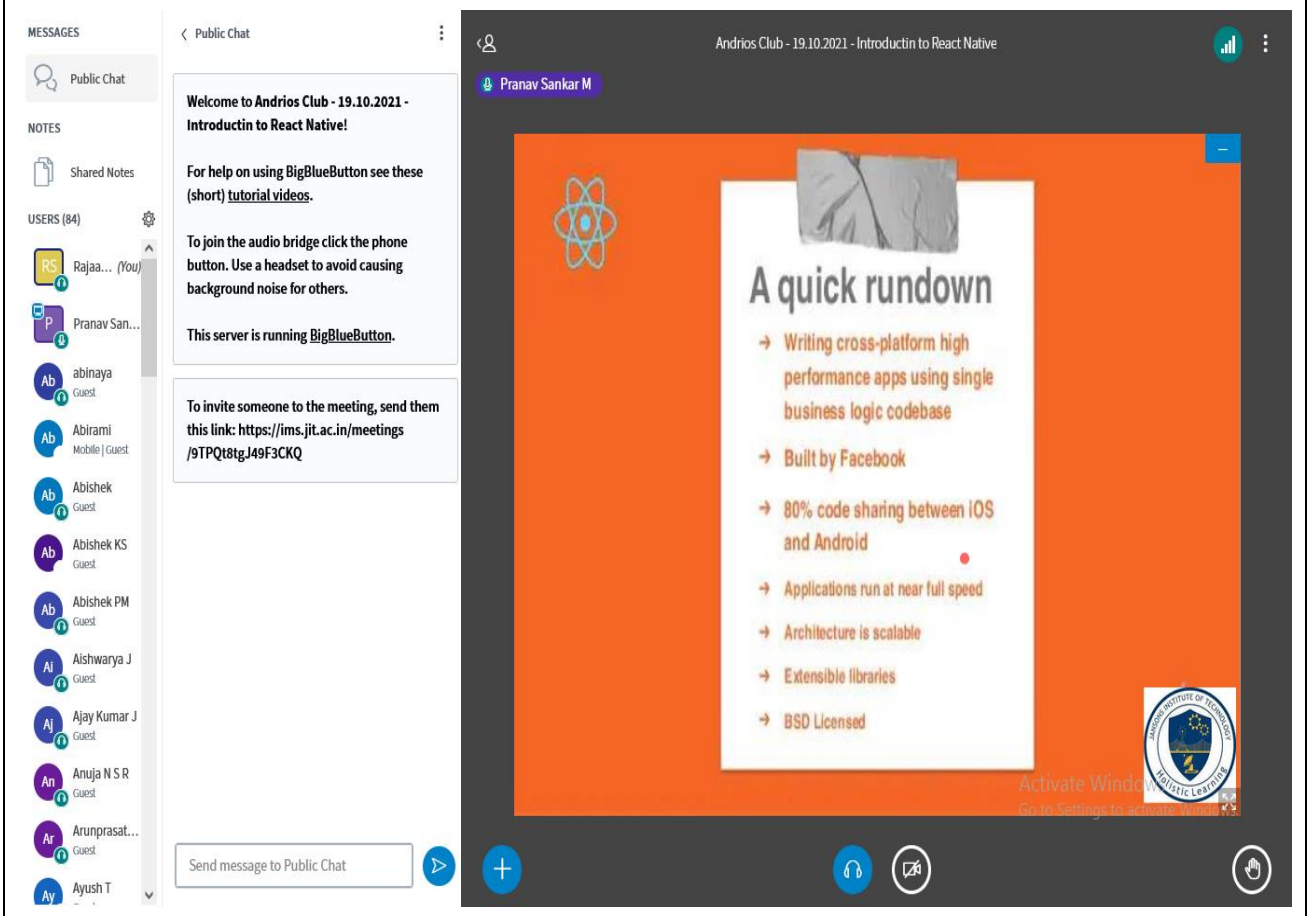
React Native
An open source, cross-platform framework for building native mobile apps with JavaScript and React using declarative components.
Activate Windows
Go to Settings to activate Windows.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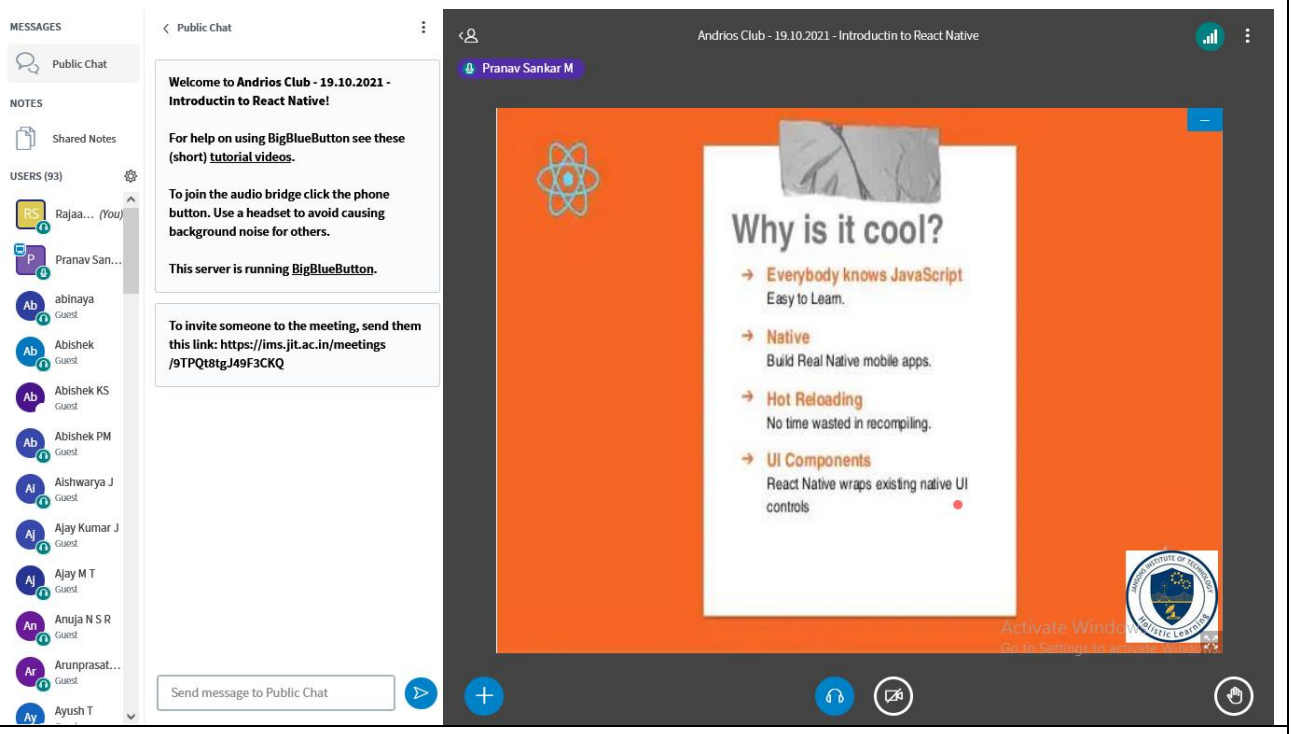
A quick rundown
Writing cross-platform high performance apps using single business logic codebase
Built by Facebook
80% code sharing between iOS and Android
Applications run at near full speed
Architecture is scalable
Extensible libraries
BSD Licensed
Activate Windows
Go to Settings to activate Windows.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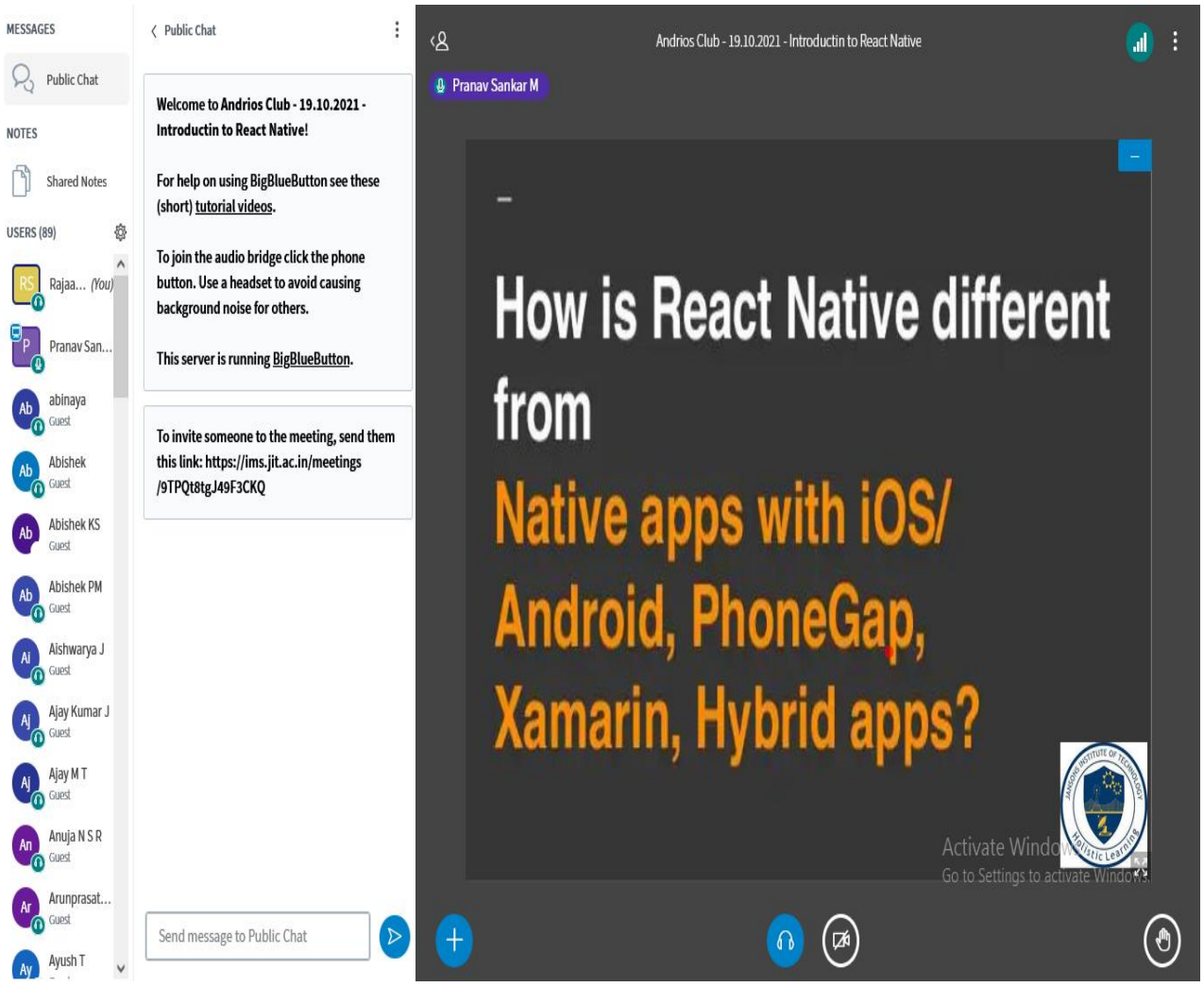
Why is it cool?
Everybody knows JavaScript
Easy to Learn.
Native
Build Real Native mobile apps.
Hot Reloading
No time wasted in recompiling.
UI Components
React Native wraps existing native UI controls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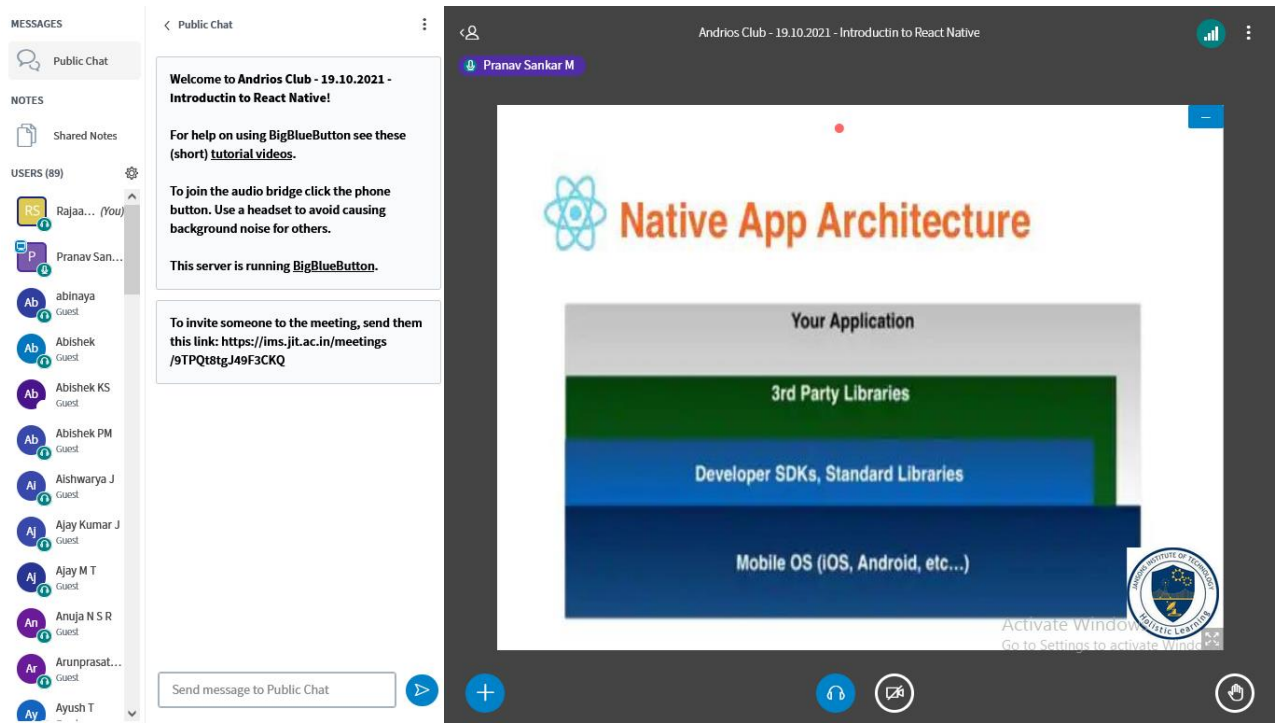
How is React Native different from
Native apps with iOS/ Android, PhoneGap, Xamarin, Hybrid apps?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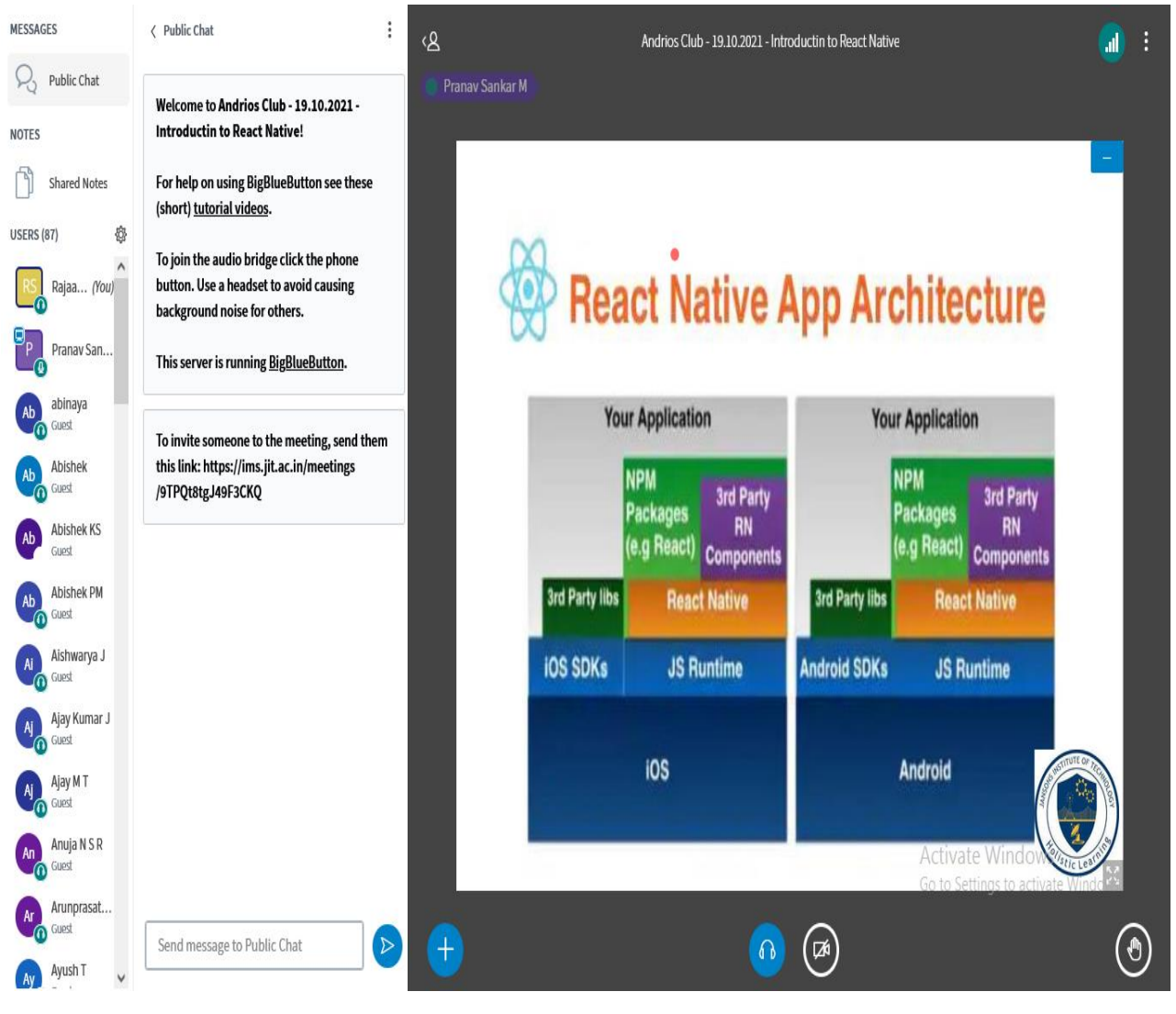
Native App Architecture
Your Application
3rd Party Libraries
Developer SDKs, Standard Libraries
Mobile OS (iOS, Android, etc...)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React Native App Architecture
Your Application
NPM Packages (e.g React)
3rd Party RN Components
3rd Party libs
React Native
iOS SDKs
JS Runtime
iOS
Your Application
NPM Packages (e.g React)
3rd Party RN Components
3rd Party libs
React Native
Android SDKs
JS Runtime
Android

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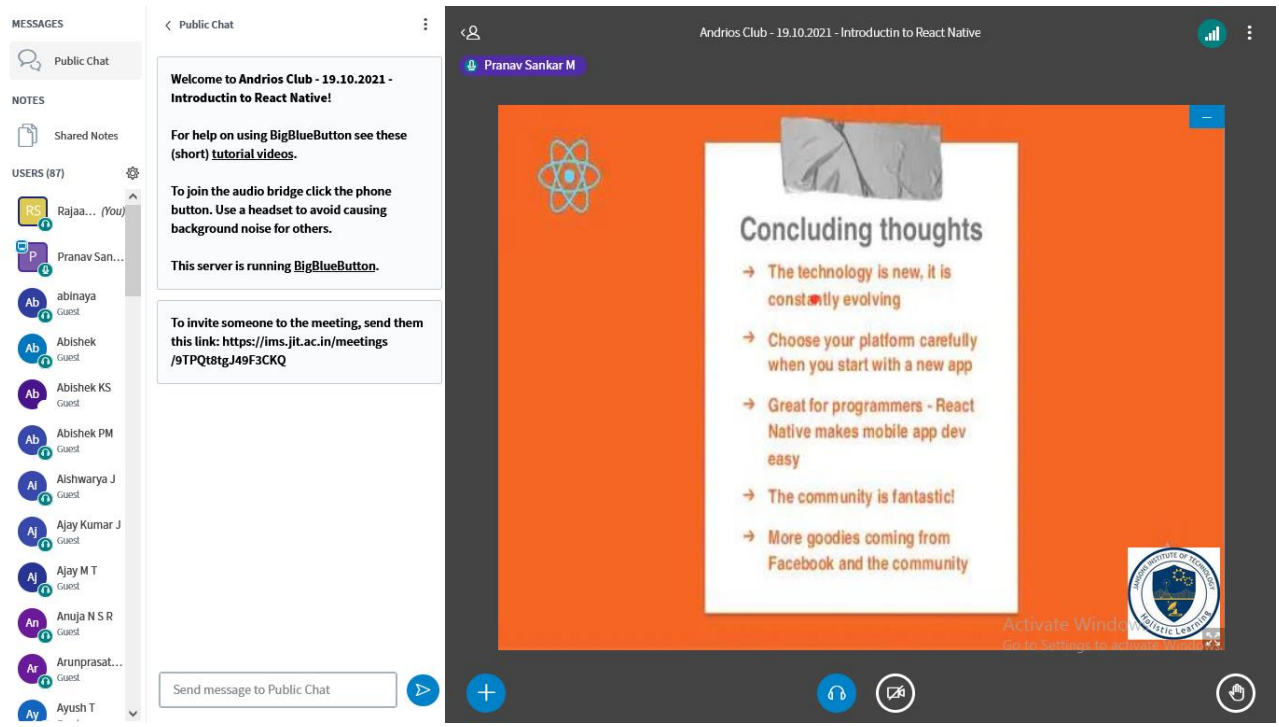

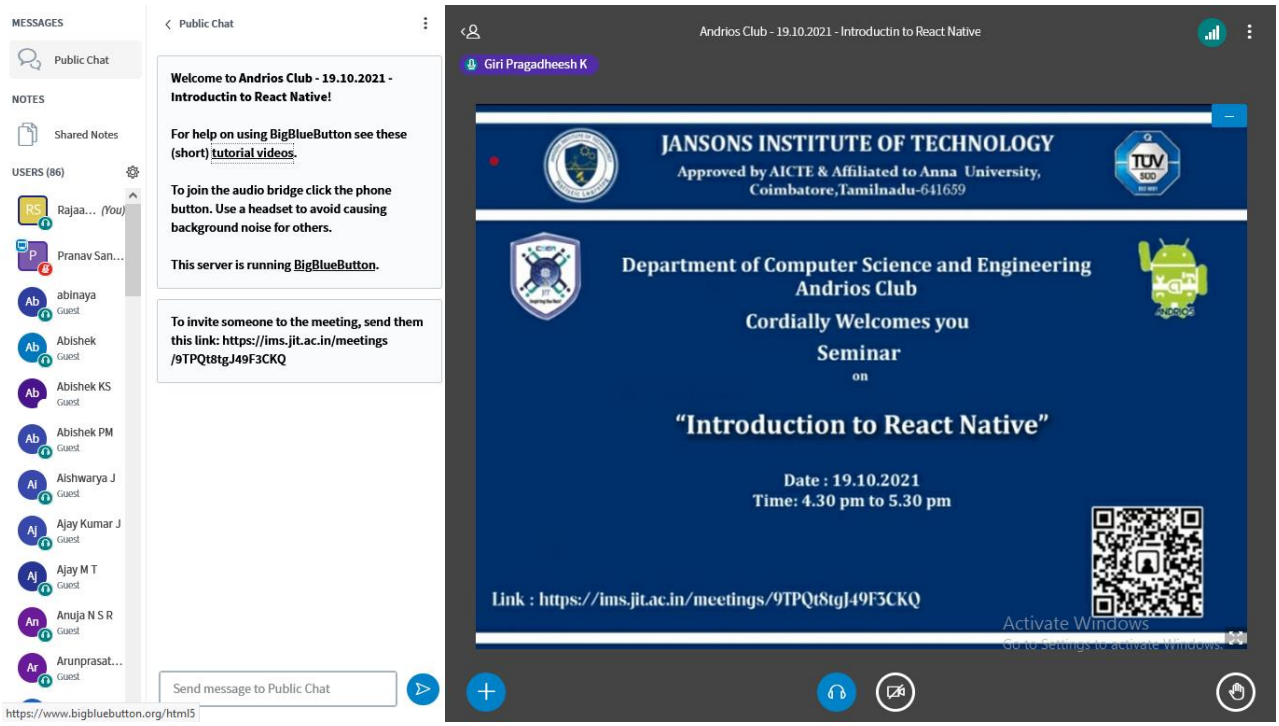

Suggestions / Future actions	NIL

Faculty In-charge
(Mrs.S.Rajaambika)