NEW HORIZON
COLLEGE OF ENGINEERING

DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

Workshop
On

"Unlocking Android: A Hands-on Workshop for Future App Developers"

Participants: 7th Semester Students **Date:** 9-November-2024

Brief Description Of The Event:

On November 9, 2024, our department hosted a workshop titled "Unlocking Android: A Hands-on Workshop for Future App Developers," led by Mr. Devraj Shukla, Senior Android Developer at Quinbay Technologies. The session began with a review of Java fundamentals, including variables, data types, and object-oriented programming principles, to establish a strong programming foundation for students. Mr. Shukla then guided students through setting up Android Studio, the primary development tool, and introduced essential Android concepts, such as Activities and the Activity lifecycle.

The workshop also delved into UI design with XML, emphasizing common layouts and interactive elements. In the final segment, students engaged in a hands-on project, creating a simple Android application to practice coding and UI integration.

This workshop equipped students with both foundational knowledge and practical skills, setting the stage for further exploration in mobile app development.

Key Points Covered:

Introduction to Java Basics

- Fundamental concepts of Java programming: variables, data types, control structures, and object-oriented principles.
- Importance of Java in Android development and understanding its relevance in mobile applications.

Setting Up Android Development Environment

- Installation and configuration of Android Studio.
- Overview of Android SDK, libraries, and tools required for Android app development.

Introduction to Android Development Basics

- Key components of Android applications, including Activities, Services, and Broadcast Receivers.
- Understanding the Activity lifecycle and its impact on app functionality.

User Interface Design in Android

- Basics of designing UIs using XML in Android.
- Common layout types and UI components (buttons, text fields, images).

Building a Simple Android Application

- Hands-on development of a basic Android application.
- Integrating Java code with XML layouts to create interactive apps.

Outcome:

By the end of the workshop, participants gained:

- A foundational understanding of Java programming principles as applied in Android development.
- Knowledge of setting up and using Android Studio as a development environment.
- Practical experience in creating user interfaces and understanding the structure of Android applications.
- Skills to build a basic Android application, with confidence to explore more complex app development on their own.

Activities Conducted: NIL

No. Of Participants: 65

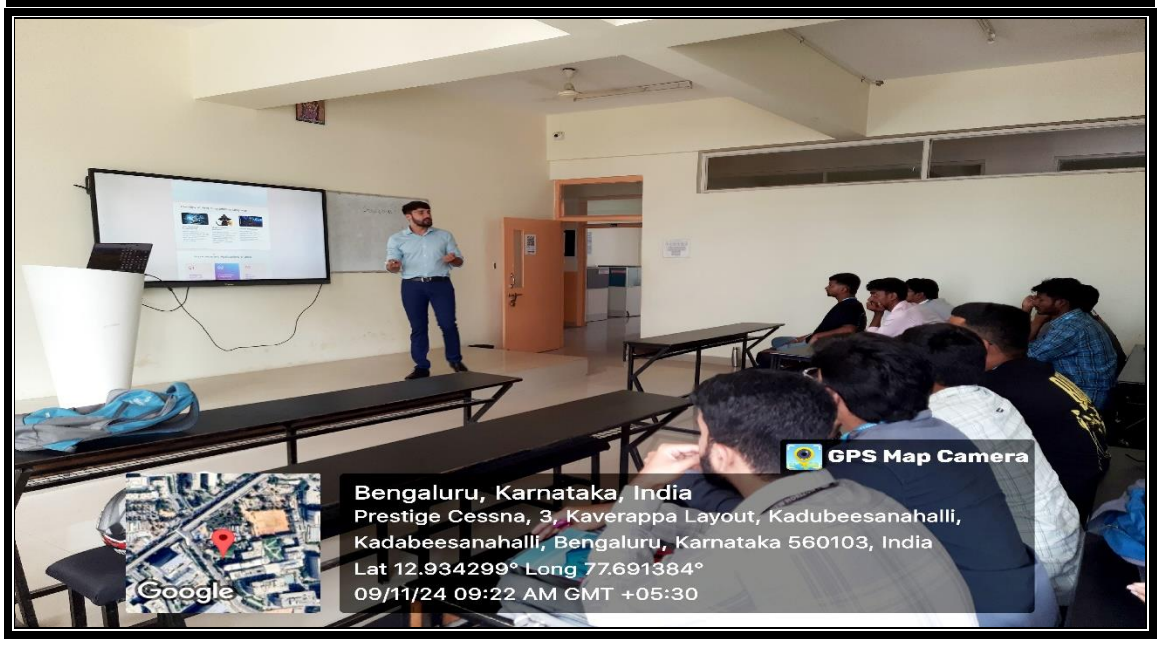
Winners (if any, for activities conducted): NA

Guest Details (Name, Designation, Organization, Location) :

Mr.Devraj Shukla, Senior Android Developer, Quinbay Technologies Bangalore.

The brochure of the event :

GLIMPSES OF THE EVENT



Faculty Coordinator **HOD-ISE**

Parvathy.S **Dr.Vandana.C.P**