ICP Presentation 2

Group: 2

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Presentation Video Link: **https://youtu.be/AJX-RVnZGB4**

ICP presentation 2 is all about the Mobile development and most importantly android development using the android studio.

Why android development?
Android studio - This is a program that allows us to create apps. The process of developing applications for Android-based devices is known as Android software development (operating system).

The Android developer kit allows us to utilize any language for development, including Java, Kotlin, and C++.

People now utilize everything on mobile, and 99 percent of tasks can be completed on mobile, thanks to generational shifts and technological advancements.

Android is the most widely used operating system in the world, as it is supported by the majority of cell phones. Developing an app for Android is simple compared to other operating systems, and it is user-friendly.
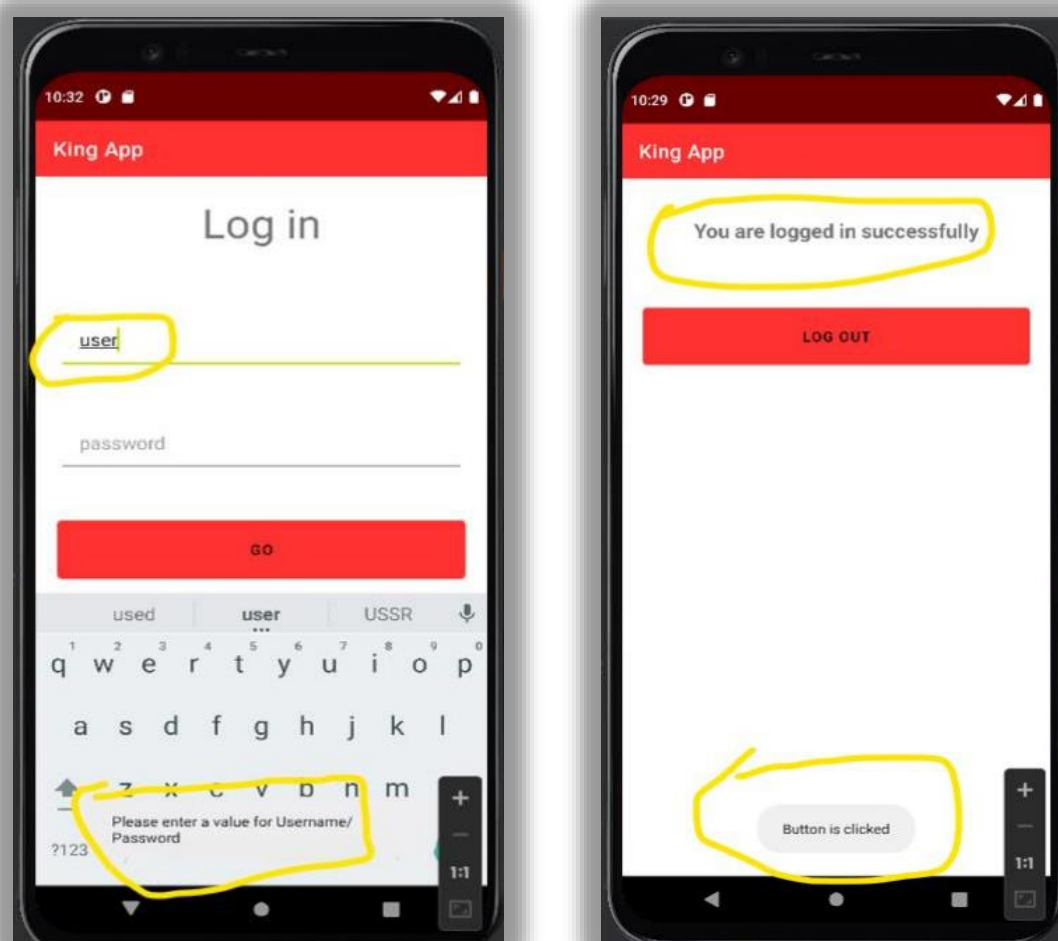
We use android studio as it has wide range of features. Some of them are

- Open source

- Create user interface for the Apps

- Easy Navigation between pages

- Inter app integration

- Interacting with APIs for sending/receiving network requests

- Rich Development environment

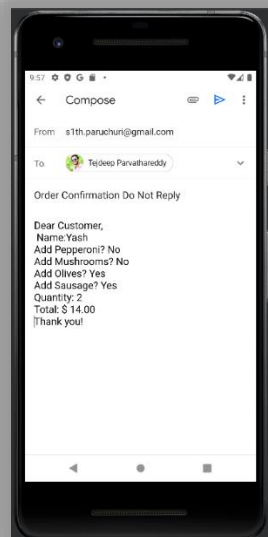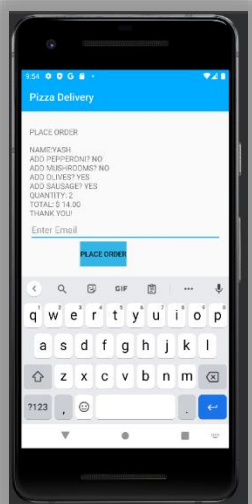In our ICPS we made use of some of the features that android operating system can perform
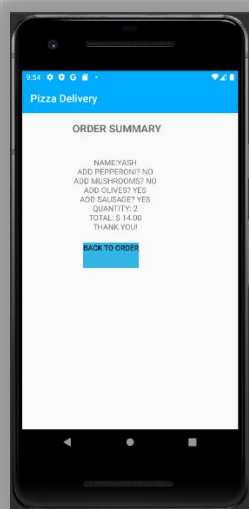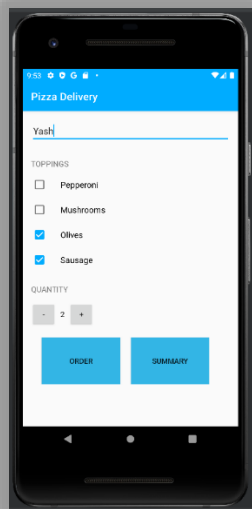
In ICP8:

we made a new Android app and gave a different name other than the default app. Made a Simple login screen with two input fields where user gets to enter his credentials and Validation of the data input is done and once the validation is done the User will be able to login if valid and if not valid, an appropriate message is shown. Every action is accompanied by a message.
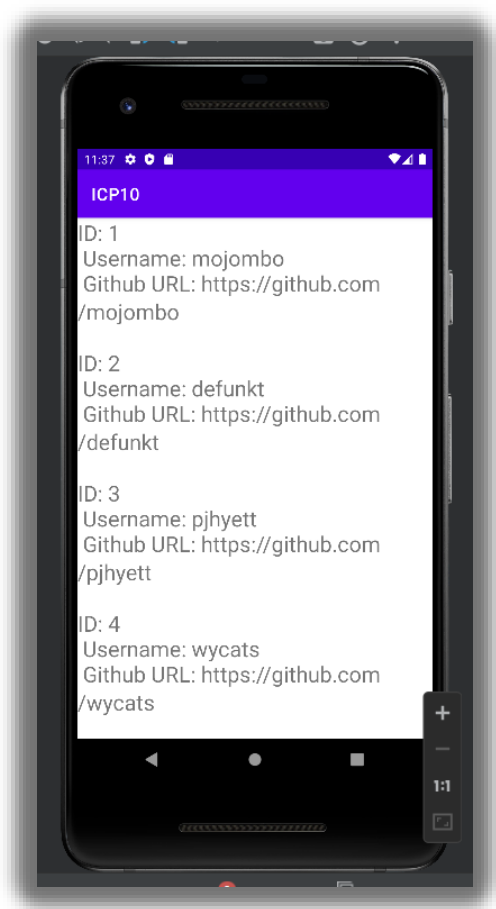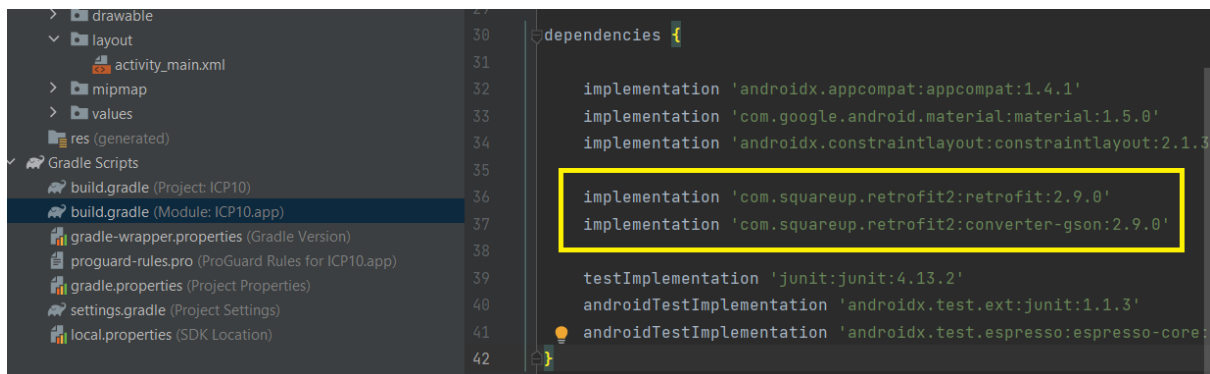
In ICP9:

We developed a full-fledged app for pizza delivery where user gets to chose the toppings for the pizza and provide a name in the input text area in the home page and we added two buttons that creates two new intents one is for getting the order summary and the other is to place an order with all the details and gives an input field to enter the email address where user has to enter the email address and on clicking the place order the user will be redirected to the email app with the details and on can receive the email that the order is placed successfully.
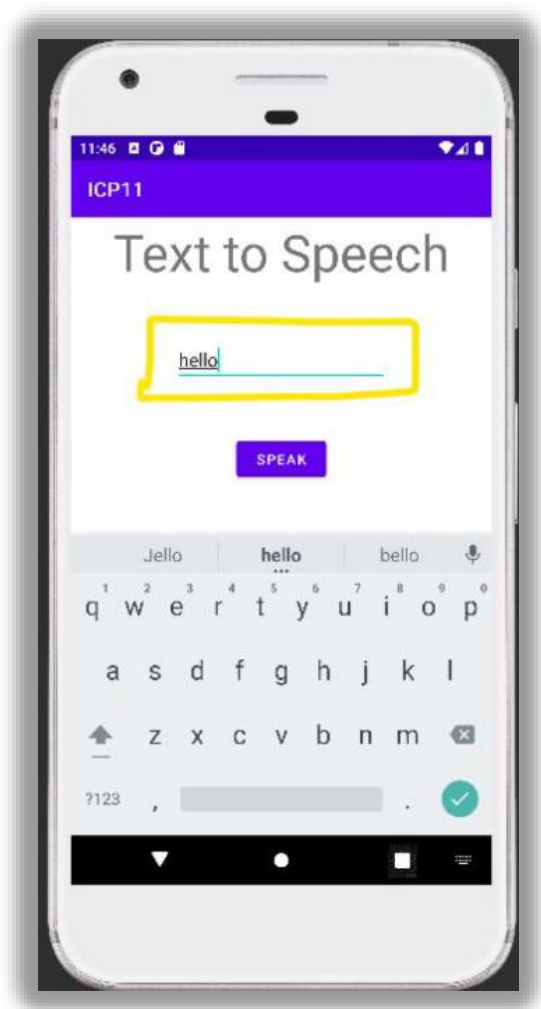

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In ICP10:

In this ICP we are Using square up retrofit service as the dependency for network requests to get the data from GitHub/users and display them in UI but first we need add the service as a dependency in the Gradle file and sync with the project . The UI is a simple app with the details that we received from the service we display the selected details in a respective format that user desire.

In ICP11:

In this ICP we created a simple app that can help the users to convert the text entered in the simple Ui created with the text field to speech which can used for the blind people who are not able to see.

Conclusion:

Using the Android studio, we learned how to design engaging UI in Android apps. Integration with other programs, such as email. How can I get from one page to the next? Using network requests to interact with API for transmitting and receiving data, Text-to-speech conversion and many more.

Note: All the technical details of the code are mentioned in the individual documentation for Each ICP within the documentation folder in GitHub.