



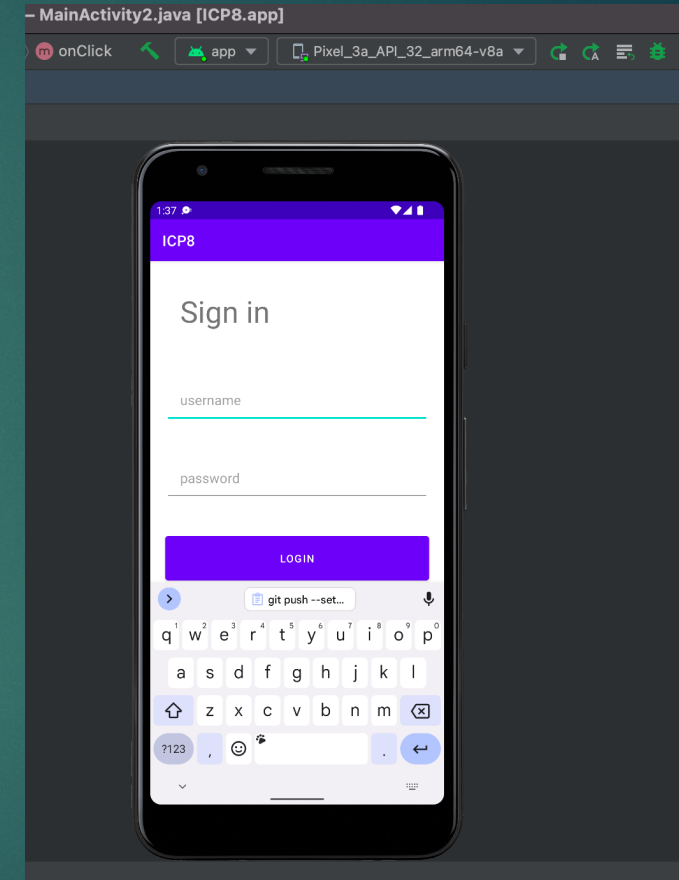
ICP Presentation 2

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DURGA PRASAD REDDY

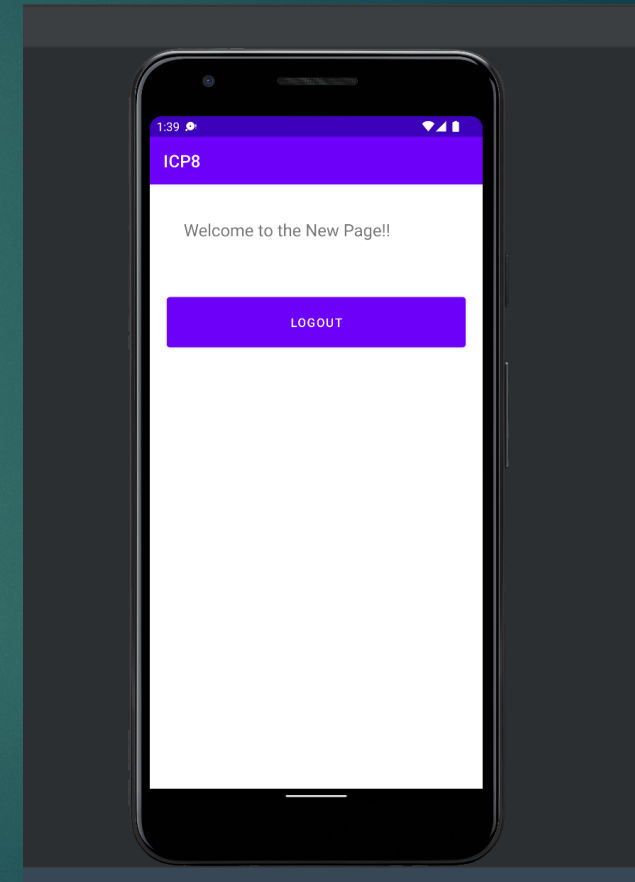
ICP 8

- In this ICP, we have created a basic login page with username, password fields using EditText layout widget and login button.
- Once the user enters the username, password and hits the login button, We have added validation on username, password in the onClickListener
- If the validation is successful, the user will redirected to another page using Intent and startActivity methods

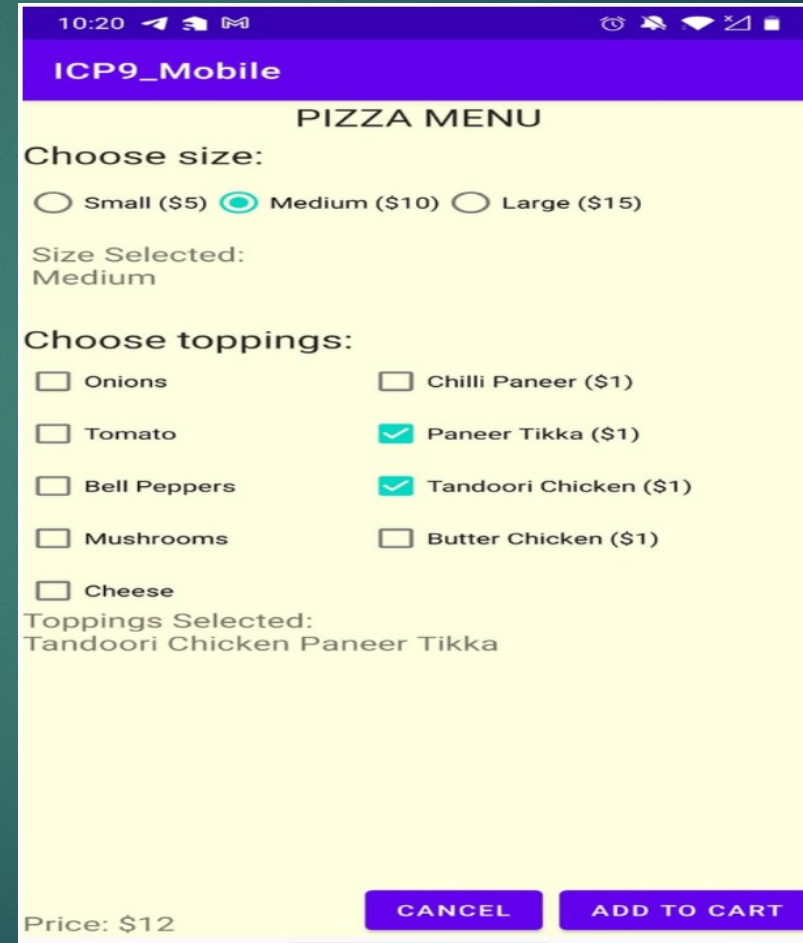


ICP 8

- In the second Activity layout, we have added a message “welcome to the New Page!!” using TextView and also added a Logout Button
- One the user clicks on the Logout button, the user will be logged out and redirected to the first activity page.

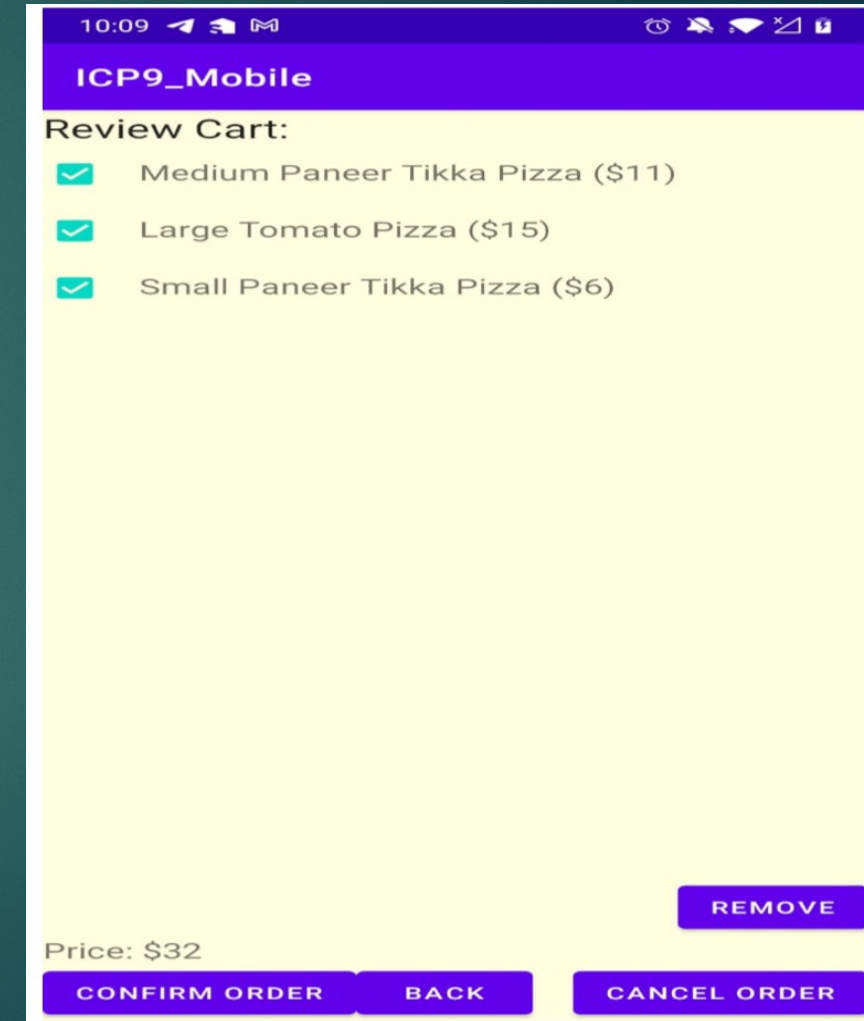


ICP 9

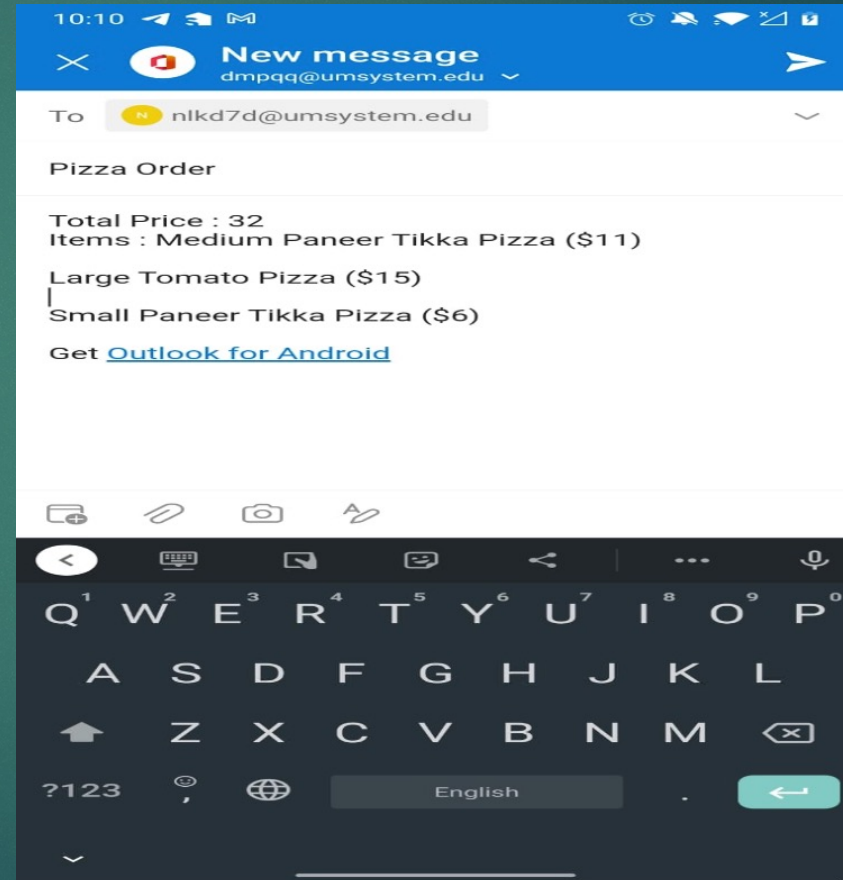
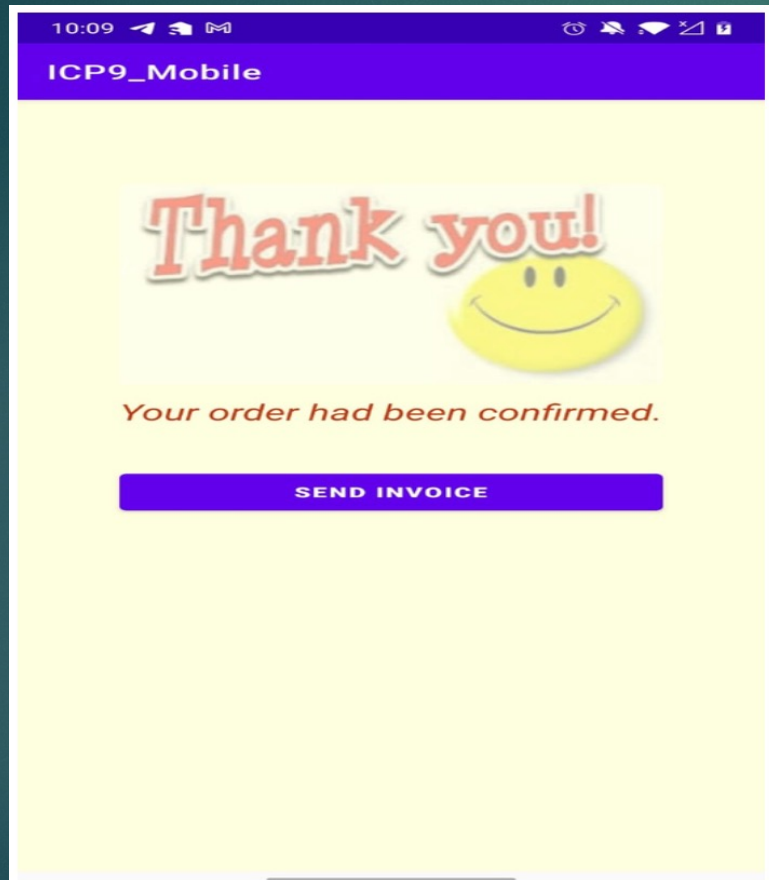


ICP 9

- Once the user clicks on place order button in the review cart page, the user will be related to Thank you page and then once the user clicks on send Invoice button, Main sending activity will be triggered
- For this we have used `intent.ACTION_SENDTO` and used the intent object to add extras like subject, to address, content of the mail. The mail contains the order details.
- For passing the information between the activities(for ex. To pass cart details to thank you page to send mail), we have used the `SharedPreferences`, which is used to store the key, value pairs, we have stored the data in Json format in the value field.

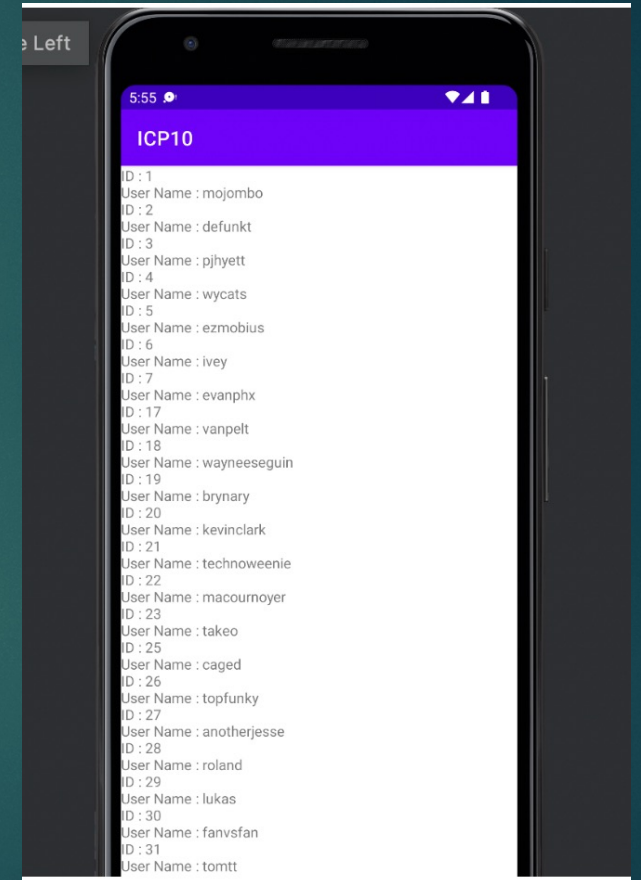


ICP 9



ICP 10

- In this ICP, we have created an application which will display the users list obtained by calling an external API and this list is scrollable.
- For calling the external API, we have used the retrofit library, it gives the easiest way to create a type-safe HTTP client for Android and Java. Retrofit turns the HTTP API into a Java Interface.
- In the Main Activity, we create the implementation for this API call using retrofit library and call the API asynchronously and once we get the response from the api, in the callback method we set the user list to the list view so that the user list is displayed
- In case of any error while calling the API like IO Error, onFailure method will get called and here we are displaying the message "Data Failed" using a Toast.



ICP 11

- In this ICP, we have created an application which takes the text input from the user, converts the text into the speech and the converted speech is played.
- Once the user clicked the speech button, the user input is converted to speech using android tts(text-to-speech) library.
- Then, we had set the speech rate to 0.5f using the `setSpeechRate` method provided by the tts library.
- Finally we call the `speak` method with arguments, the user inputted text, `TextToSpeech.QUEUE_ADD` enum, which will add the speech to the end of the playback queue.
- We have also used the `stop()` and `shutdown()` methods depending on the activity lifecycle method. The `stop` method will interrupt the current speech being played and also removes all the entries from the queue. And the `shutdown` method will release all the resources.

