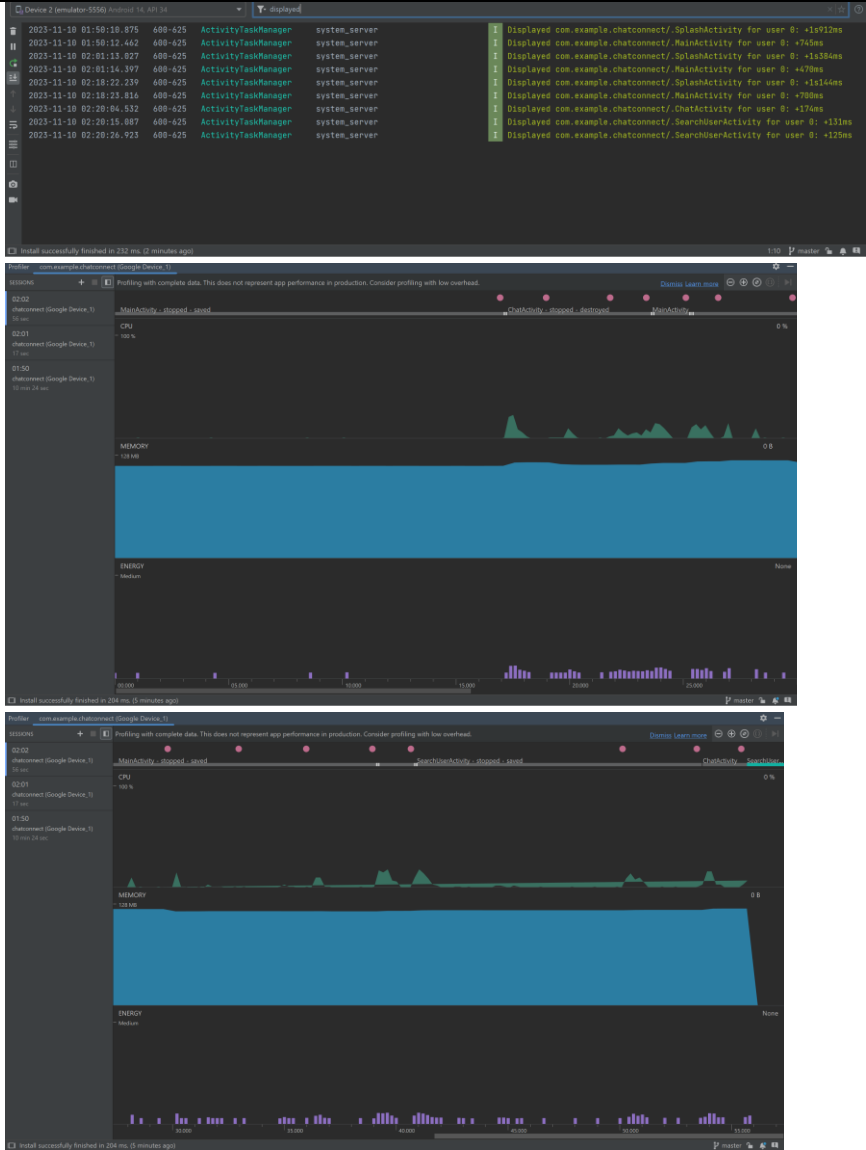


Model Performance Test

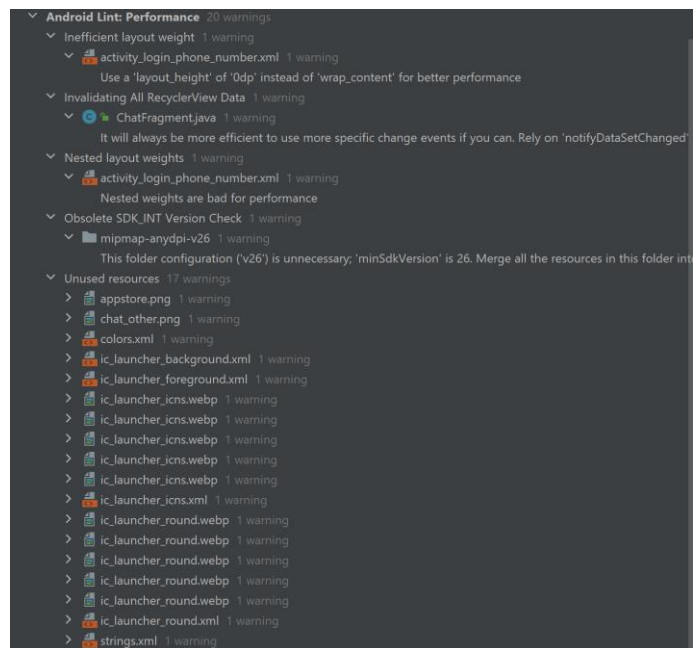
Date	10 November 2023
Team ID	Team-590882
Project Name	ChatConnect- A Real-Time Chat And Communication App
Maximum Marks	10 Marks

Model Performance Testing:

Project team shall fill the following information in model performance testing template.

S.No.	Parameter	Values	Screenshot
1.	Metrics	App Launch Time Screen Render Time- Logcat and profiler screen shots are added	 <p>The screenshot displays the Android Studio interface during an app launch. The top panel shows the Logcat with the following log entries:</p> <pre> 2023-11-10 01:50:10.875 600-625 ActivityTaskManager system_server I Displayed com.example.chatconnect./SplashActivity for user 0: +1912ms 2023-11-10 01:50:12.462 600-625 ActivityTaskManager system_server I Displayed com.example.chatconnect./MainActivity for user 0: +745ms 2023-11-10 02:01:11.027 600-625 ActivityTaskManager system_server I Displayed com.example.chatconnect./SplashActivity for user 0: +1138ms 2023-11-10 02:01:14.397 600-625 ActivityTaskManager system_server I Displayed com.example.chatconnect./MainActivity for user 0: +478ms 2023-11-10 02:18:22.239 600-625 ActivityTaskManager system_server I Displayed com.example.chatconnect./SplashActivity for user 0: +1514ms 2023-11-10 02:18:23.816 600-625 ActivityTaskManager system_server I Displayed com.example.chatconnect./MainActivity for user 0: +780ms 2023-11-10 02:20:04.532 600-625 ActivityTaskManager system_server I Displayed com.example.chatconnect./ChatActivity for user 0: +174ms 2023-11-10 02:20:15.087 600-625 ActivityTaskManager system_server I Displayed com.example.chatconnect./SearchUserActivity for user 0: +131ms 2023-11-10 02:20:26.923 600-625 ActivityTaskManager system_server I Displayed com.example.chatconnect./SearchUserActivity for user 0: +123ms </pre> <p>The bottom panel shows the Profiler with the following data:</p> <ul style="list-style-type: none"> CPU: 0% Memory: 0B Energy: None <p>The Profiler also shows a timeline of events, including the app launch and the display of various activities.</p>

Code Quality-
As we can see there are some warnings in the Lint about app performance and others but for app performance and others there are no errors and only have suggestions to increase the performance of app So we can overall quality of code is good.

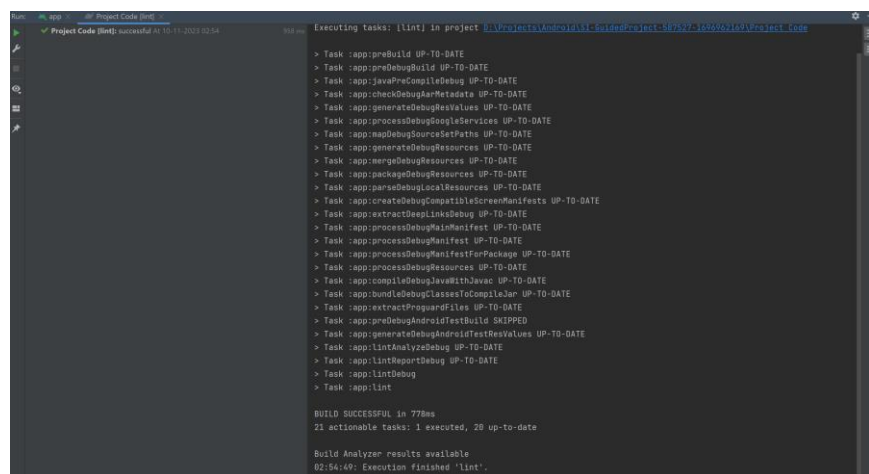



- > **Android Lint: Accessibility** 15 warnings
- > **Android Lint: Correctness** 9 warnings
- > **Android Lint: Internationalization** 48 warnings
- > **Android Lint: Performance** 22 warnings
- > **Android Lint: Usability** 29 warnings

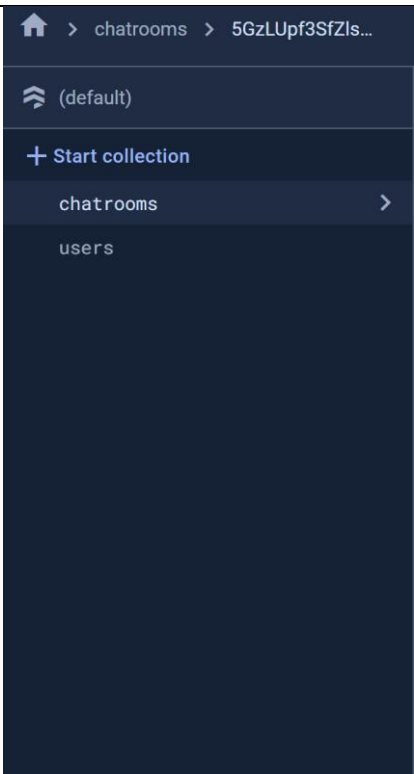
This is about Lint

The lint tool

A static code scanning tool that you can run on your Android project either from the command line or in Android Studio. The lint tool checks for structural code problems that could affect the quality and performance of your Android app.



2.	Usage	<div>App Size-</div> <div>Customer Experience-</div>	<div><div>com.example.chatconnect (Version Name: 1.0, Version Code: 1)</div><div>APK size: 12.8 MB, Download Size: 11.4 MB</div><div><div>Compare with previous</div><table><tr><th>File</th><th>Raw File Size</th><th>Download Size</th><th>% of Total Download</th></tr><tr><td>classes.dex</td><td>4.1 MB</td><td>3.7 MB</td><td>35.7%</td></tr><tr><td>classes7.dex</td><td>3 MB</td><td>2.7 MB</td><td>25.7%</td></tr><tr><td>classes8.dex</td><td>2.7 MB</td><td>2.4 MB</td><td>22.8%</td></tr><tr><td>res</td><td>1.1 MB</td><td>1009.8 KB</td><td>9.4%</td></tr><tr><td>resources.arsc</td><td>1.2 MB</td><td>266.3 KB</td><td>2.5%</td></tr><tr><td>classes2.dex</td><td>187.3 KB</td><td>170.4 KB</td><td>1.6%</td></tr><tr><td>assets</td><td>127.5 KB</td><td>119.4 KB</td><td>1.1%</td></tr><tr><td>google</td><td>49.2 KB</td><td>49.2 KB</td><td>0.5%</td></tr><tr><td>okhttp3</td><td>40.6 KB</td><td>40.6 KB</td><td>0.4%</td></tr><tr><td>classes6.dex</td><td>16.1 KB</td><td>15 KB</td><td>0.1%</td></tr><tr><td>kotlin</td><td>9.9 KB</td><td>9.9 KB</td><td>0.1%</td></tr></table></div></div> <div>We tested with 3 users everyone said that it is good app that does not involve complicated features and 1 user said that app is good but needs little development with receiving messages.</div>	File	Raw File Size	Download Size	% of Total Download	classes.dex	4.1 MB	3.7 MB	35.7%	classes7.dex	3 MB	2.7 MB	25.7%	classes8.dex	2.7 MB	2.4 MB	22.8%	res	1.1 MB	1009.8 KB	9.4%	resources.arsc	1.2 MB	266.3 KB	2.5%	classes2.dex	187.3 KB	170.4 KB	1.6%	assets	127.5 KB	119.4 KB	1.1%	google	49.2 KB	49.2 KB	0.5%	okhttp3	40.6 KB	40.6 KB	0.4%	classes6.dex	16.1 KB	15 KB	0.1%	kotlin	9.9 KB	9.9 KB	0.1%
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3.	Performance	<div>Error and Crash Rates</div> <div>Database Query Performance</div> <div>The chatrooms id's and users id's who have exchanged a chat between them are store in chatrooms and user ids when they create their account will be stored in users</div>	<div>After about 30 minutes or sometimes 40 and on the emulator it is showing that app is keep getting stopped close app and sometimes this does not occur for a long time.</div> <div><div><div>Firestore</div><div><div>Reads (current)</div><div>95</div></div><div><div>Writes (current)</div><div>47</div></div><div></div></div></div> <div><div>Firestore</div><div><div>collection: chatrooms</div><div><div>collection_id</div><div>parent</div><div>1. chats</div><div>2. chats</div><div>3. chatrooms</div><div>4. chats</div><div>5. users</div></div></div></div> <div>Profile pic information is stored as shown below in storage</div> <div><table><tr><th></th><th>Name</th><th>Size</th><th>Type</th><th>Last modified</th></tr><tr><td></td><td>profile_pic/</td><td>-</td><td>Folder</td><td>-</td></tr></table></div>		Name	Size	Type	Last modified		profile_pic/	-	Folder	-																																						
	Name	Size	Type	Last modified																																															
	profile_pic/	-	Folder	-																																															

			 <p>The screenshot shows a mobile application interface. At the top, there is a dark blue header bar with a home icon, a back arrow, and the text 'chatrooms > 5GzLUpf3SfZIs...'. Below the header, there is a dark blue bar with a white icon of three horizontal lines and the text '(default)'. Underneath, there is a dark blue bar with a white plus sign and the text '+ Start collection'. Below this, there is a dark blue bar with the text 'chatrooms' and a white right arrow. At the bottom, there is a dark blue bar with the text 'users'.</p>
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