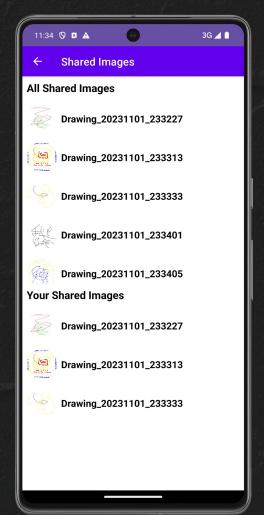


Scaffold

```
@SuppressLint("UnusedMaterialScaffoldPaddingParameter")
fun DrawingLists(
    navController: NavController,
    drawingViewModel: DrawingViewModel,
    drawingRepository: DrawingRepository
    val allUsersImages by drawingViewModel.allUsersImages.collectAsState()
    val thisUsersImages by drawingViewModel.thisUsersImages.collectAsState()
    val baseURL = "http://10.0.2.2:8080/drawings/"
    val scope = rememberCoroutineScope()
        topBar = {
            TopAppBar(
                title = { Text(text = "Shared Images") }.
                        navController.popBackStack()
                    F) {
                        Icon(Icons.Default.ArrowBack, contentDescription = null)
    ) { it: PaddingValues
```



Gyro

- Senor based drawing using gyro sensor
- Main aspects of feature:
 - Button to start/stop feature
 - o SensorEventListener
 - Handling the gyro data

```
Start Gyro Draw Share

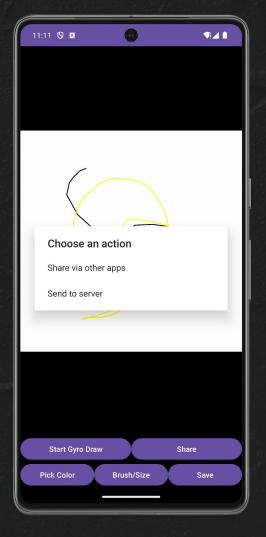
Pick Color Brush/Size Save
```

Gyro

- Handling the data:
 - Keep track of the last path position
 - Grab only the x and y data
 - Clamp the data so path stays in bounds
 - Draw path to the new position
 - Can adjust sensitivity, higher the sensitivity the longer created paths

AlertDialog

```
± Yutian Qin +1
private fun onClickShare(anchorView: View) {
    val customView = view?.findViewById<CustomView>(R.id.custom_view)
    val bitmap = customView?.getDrawingBitmap()
    bitmap?.let { it: Bitmap
        val choices = arrayOf("Share via other apps", "Send to server")
        AlertDialog.Builder(requireContext()) AlertDialog.Builder
            .setTitle("Choose an action") AlertDialog.Builder!
            .setItems(choices) { _, which ->
                when (which) {
                    0 -> shareImageAndText(it) // Share via other apps
                    1 -> sendImageToServer(it) // Send to server
            }.show() ^let
```



U

Changes made to the UI as the client added more requirements.

Phase 1 Basic functionalities	Phase 2 Database	Chaining and new	Phase 4 Login functionality and share with other users
The user can draw something and modify the pen	The app remembers drawings the user has made and can view them on the homepage of the app.	The user can do a gyro based drawing and share the drawings with other applications.	The user can login and share the drawings with other users.
-Basic layout -2 buttons	-Drawings page -Save button	-Share button -Gyro button	-Login page -Shared drawings page