

FINDITBUDDY!?

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COMP3500

PROJECT GOAL

- ☐ Help user to look for a word in a picture.
- ☐ Implement Google API
- ☐ Make a simple and user friendly UI
- ☐ Save the word you searched

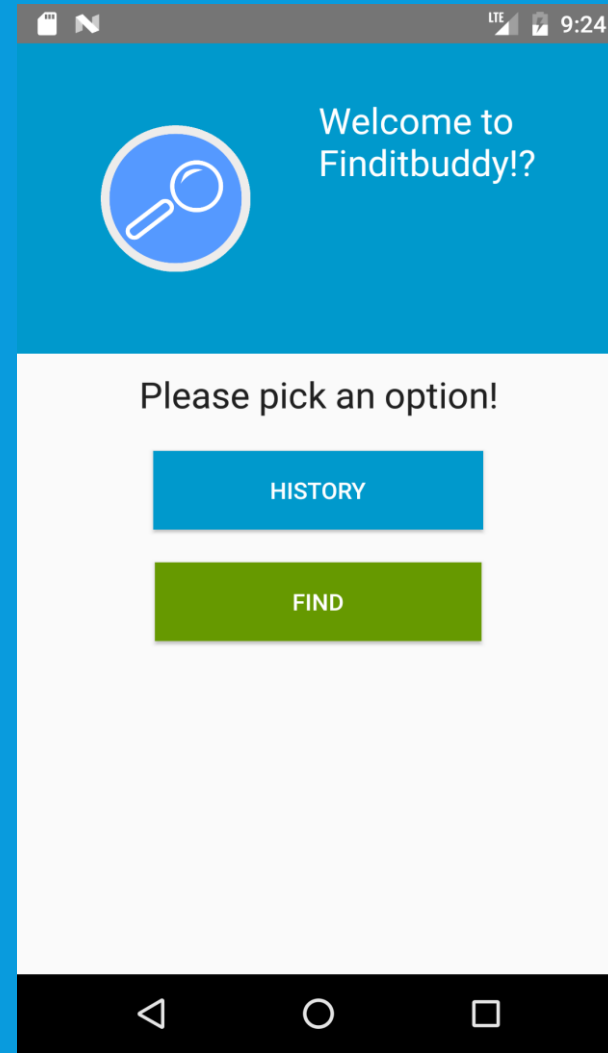
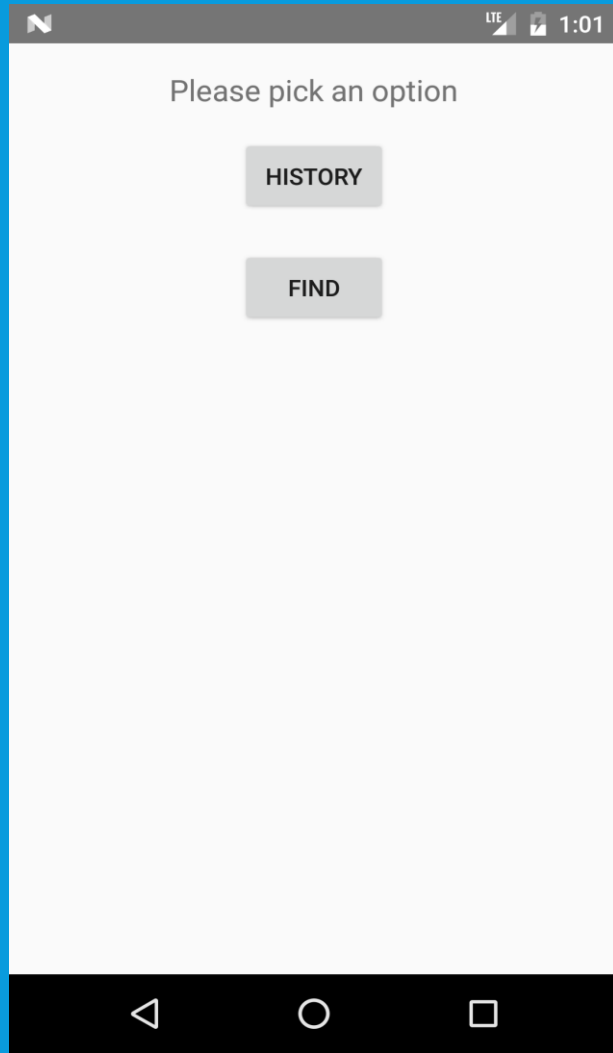
INTRO

- ❑ Application that help find words in images
- ❑ Ctrl+F for images
- ❑ Used simple UI
- ❑ Used Google's vision API

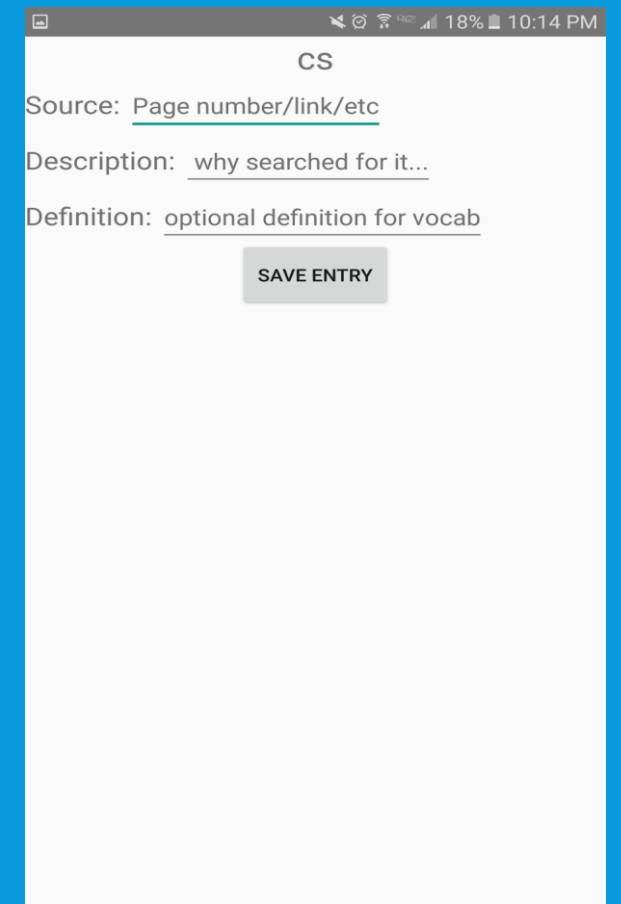
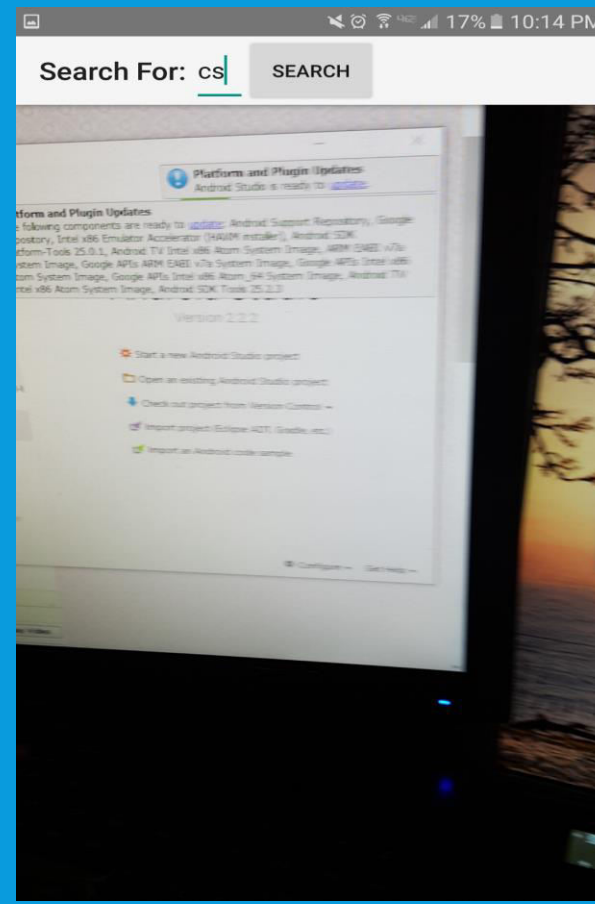
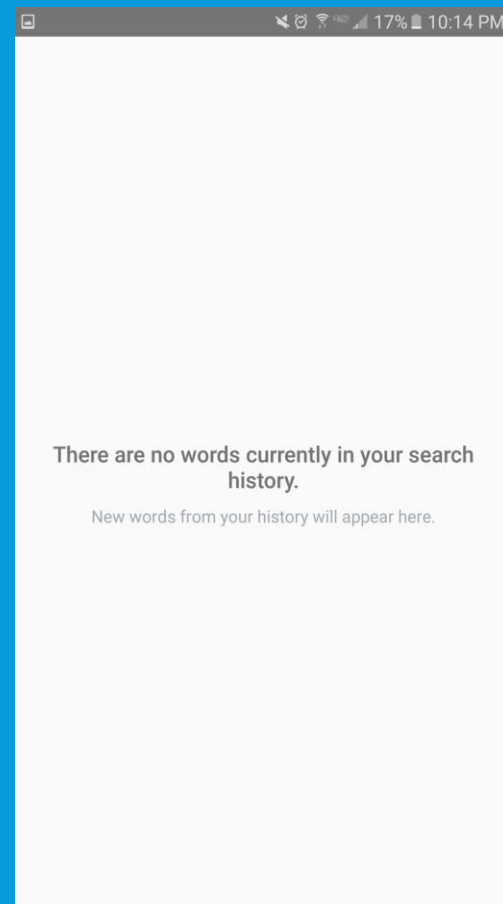
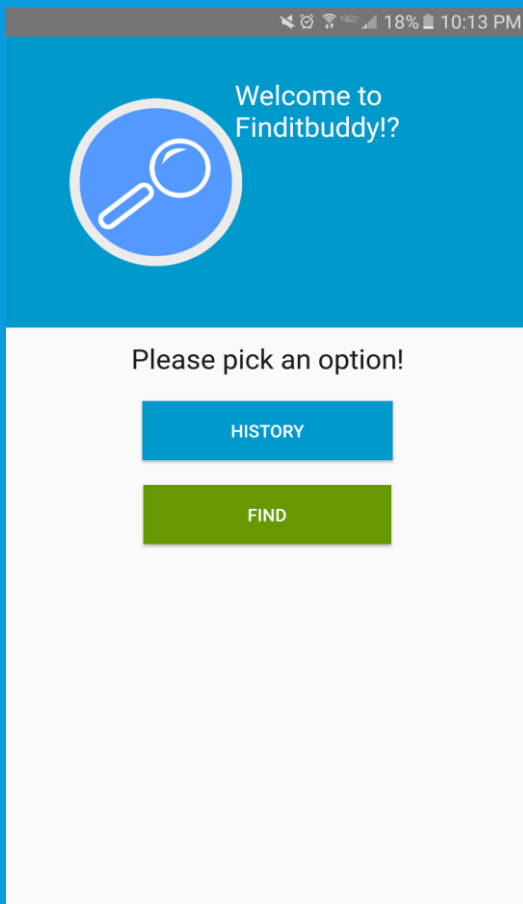
CHALLENGES

- ☐ Implementing Google Vision API
- ☐ Getting Database to work
- ☐ Sending frame to the cloud and return more marked up version

MAIN SCREEN



ALL ACTIVITIES



FINDACTIVITY.JAVA

Find-It-Buddy-progress-2 - [C:\Users\Dhvani\Downloads\Find-It-Buddy-progress-2\Find-It-Buddy-progress-2] - [app] - ...\\app\\src\\main\\java\\coldashes\\findActivity.java - Android Studio 2.2.3

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

Find-It-Buddy-progress-2 app src main java coldashes findActivity

AndroidManifest.xml
data
aboutActivity
dataEntryActivity
DataHolder
findActivity
HistoryActivity
MainActivity
settingsActivity
WordCursorAdapter
ocr
OcrCaptureActivity
OcrDetectorProcessor
OcrGraphic
ui.camera
CameraSource
CameraSourcePreview
GraphicOverlay
activity_history.xml
activity_main.xml
custom_action_bar.xml
data_entry_activity.xml
find_activity.xml
list_item.xml
ocr_capture.xml
menu
mipmap
values
dimens.xml (2)
strings.xml

```
public class findActivity extends AppCompatActivity {
    ImageView theImage;

    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);

        setContentView(R.layout.find_activity);
        theImage = (ImageView) findViewById(R.id.thePicture);
    }

    @Override
    public boolean onOptionsItemSelected(MenuItem item) {
        // Handle item selection
        switch (item.getItemId()) {
            case R.id.done:
                return true;
            case R.id.add:
                return true;
            default:
                return super.onOptionsItemSelected(item);
        }
    }

    public void dispatchTakePictureIntent(View view) {
        Intent takePictureIntent = new Intent(MediaStore.ACTION_IMAGE_CAPTURE);
        if (takePictureIntent.resolveActivity(getPackageManager()) != null) {
            // Create the File where the photo should go
            File photoFile = null;
            try {
                photoFile = createImageFile();
            } catch (IOException ex) {
                // Error occurred while creating the File
                Log.v("FindActivity", "could not create photo");
            }
            // Continue only if the File was successfully created
            if (photoFile != null) {
                Uri photoURI = FileProvider.getUriForFile(this,
                    "com.example.android.fileprovider",
                    photoFile);
                takePictureIntent.putExtra(MediaStore.EXTRA_OUTPUT, photoURI);
                startActivityForResult(takePictureIntent, REQUEST_TAKE_PHOTO);
            }
        }
    }

    String mCurrentPhotoPath;
```

Gradle build finished in 23s 841ms (today 9:52 PM)

28:14 LF UTF-8 Context: <no context>

MAINACTIVITY.JAVA

Find-It-Buddy-progress-2 - [C:\Users\Dhvani\Downloads\Find-It-Buddy-progress-2\Find-It-Buddy-progress-2] - [app] - ...app\src\main\java\coldashes\MainActivity.java - Android Studio 2.2.3

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

Find-It-Buddy-progress-2 app src main java coldashes MainActivity

activity_main.xml x find_activity.xml x settingsActivity.java x MainActivity.java x WordCursorAdapter.java x DataHolder.java x dataEntryActivity.java x findActivity.java x HistoryActivity.java x activity_history.xml x

Project Structure

- app
 - manifests
 - AndroidManifest.xml
 - java
 - coldashes
 - data
 - aboutActivity
 - dataEntryActivity
 - DataHolder
 - findActivity
 - HistoryActivity
 - MainActivity
 - settingsActivity
 - WordCursorAdapter
 - ocr
 - OcrCaptureActivity
 - OcrDetectorProcessor
 - OcrGraphic
 - ui.camera
 - CameraSource
 - CameraSourcePreview
 - GraphicOverlay
 - res
 - drawable
 - layout
 - activity_history.xml
 - activity_main.xml
 - custom_action_bar.xml
 - data_entry_activity.xml
 - find_activity.xml
 - list_item.xml
 - ocr_capture.xml
 - menu
 - mipmap
 - values
 - dimens.xml (2)
 - strings.xml
 - Gradle Scripts
 - build.gradle (Project: Find-It-Buddy-progress-2)
 - build.gradle (Module: app)
 - gradle-wrapper.properties (Gradle Version)
 - proguard-rules.pro (ProGuard Rules for app)
 - settings.gradle (Project Settings)

```
package coldashes;

import ...

public class MainActivity extends AppCompatActivity {

    static final int REQUEST_IMAGE_CAPTURE = 0;

    Button historyBtn;
    Button findBtn;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        historyBtn = (Button) findViewById(R.id.history_btn);
        findBtn = (Button) findViewById(R.id.find_btn);
        historyBtn.setOnClickListener(myHandler);
        findBtn.setOnClickListener(myHandler);

        int permissionCheck = ContextCompat.checkSelfPermission(this, Manifest.permission.CAMERA);
        if (permissionCheck == PackageManager.PERMISSION_DENIED)
            Log.v("MainActivity", "Permission denied");
        getPermission();
    }

    @Override
    public boolean onCreateOptionsMenu(Menu menu) {
        MenuInflater inflater = getMenuInflater();
        inflater.inflate(R.menu.settings, menu);
        return true;
    }

    private void getPermission() {
        if (ActivityCompat.shouldShowRequestPermissionRationale(this, Manifest.permission.CAMERA)) {
            //AlertDialog.Builder builder = new AlertDialog.Builder(this);
            //builder.setMessage("Would you like to Enable");
        } else {
            ActivityCompat.requestPermissions(this, new String[] {
                Manifest.permission.CAMERA,
                REQUEST_IMAGE_CAPTURE);
        }
    }

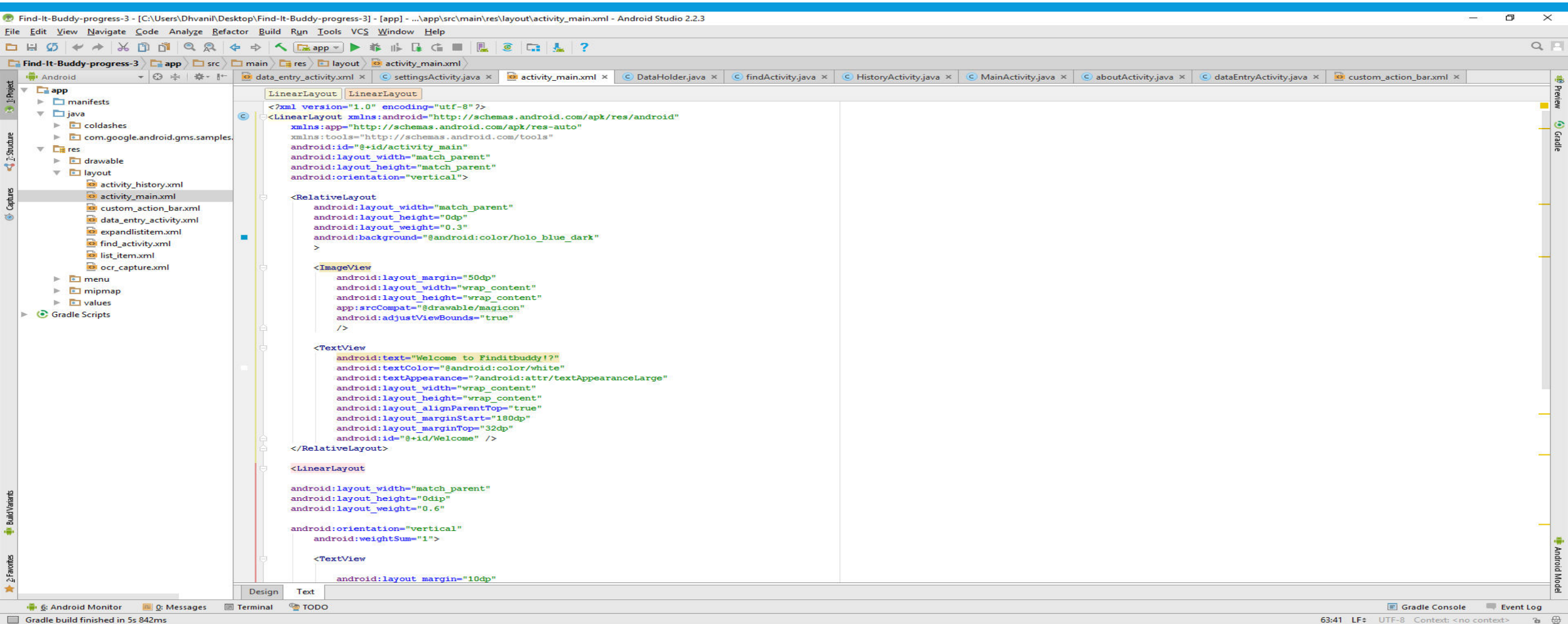
    @Override
    public void onRequestPermissionsResult(int requestCode, String permissions[], int[] grantResults) {
        switch (requestCode) {
            case REQUEST_IMAGE_CAPTURE: {
                if (grantResults.length > 0 && grantResults[0] == PackageManager.PERMISSION_GRANTED) {

```

Android Monitor Terminal Messages

Event Log Gradle Console

ACTIVITY_MAIN.XML



THANK YOU!