# Warwick C<>ding





# Lecture 6

ViewUserActivity



- To get the profile pictures working:
  - Need to modify MainActivity so that it creates a folder to store the pictures
  - Need to modify the AndroidManifest.xml to allow permission to create folders on the phone
  - Need to save pictures to this folder when record is created
  - Need to get these pictures when user hasPicture



Add setUpFolders() function in MainActivity

```
private void setUpFolders() {
   File dir = new File(Environment.getExternalStorageDirectory().toString() + "/WarwickCoding/");
   File dir2 = new File (Environment.qetExternalStorageDirectory().toString() + "/WarwickCoding/.ProfilePictures/");
   try{
        if(dir.mkdir()) {
            Log.e("directory 1", "Directory created");
            Log.e("directory 1", "Directory is not created");
    }catch(Exception e) {
        e.printStackTrace();
   try{
        if(dir2.mkdir()) {
            Log.e("directory 2", "Directory is not created");
    }catch(Exception e) {
        e.printStackTrace();
```



Modify the AndroidManifest.xml (found in the mainfests folder)



Edit createRecord() function in UsersActivty

```
private void createRecord() {
   User newUser = new User();
   String name = name.getEditableText().toString();
    if(!name.equals("")) {
       newUser.setName(name);
        showErrorDialog("Error Creating Record", "Name must not be nothing");
   newUser.setEmail( email.getEditableText().toString());
   newUser.setAge(Integer.parseInt( age.getEditableText().toString()));
   newUser.setLocation( location.getEditableText().toString());
   newUser.setGender( gender.getSelectedItemPosition() == 0);
   newUser.setHasPicture( profileBitmap != null);
    newUser.setId( userTable.createRow(newUser));
    PictureServices.saveProfilePicFromBitmap( profileBitmap, newUser.qetId());
   Toast.makeText(this, "Created User", Toast.LENGTH SHORT).show();
    finish();
```



Edit setHasPicture() function in User

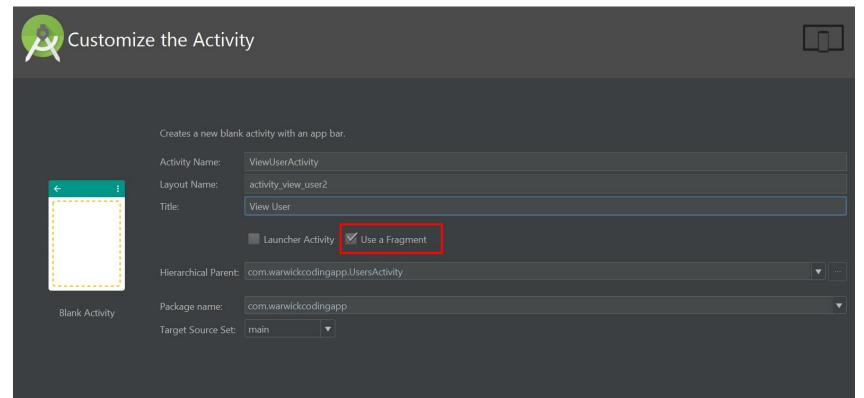


# ViewUserActivity



# Add a New Activity

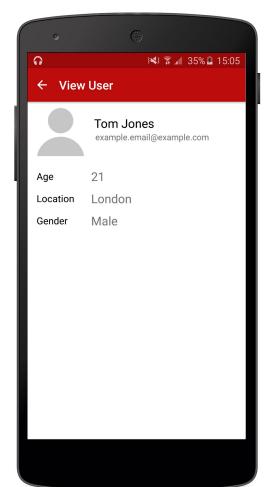
Create an activity called ViewUserActivity





# Add a New Activity

- Remove the Floating Action Button (FAB) in activity\_view\_users.xml
- Edit fragment\_view\_users.xml so that it looks like the right
- (Can copy the code from content\_add\_record.xml and change EditTexts to TextViews)





## First Step - XML

#### Remember:

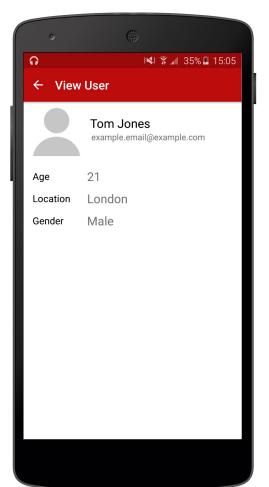
- Add relevant String resources to strings.xml
- Give the TextViews and Imageview relevant ids





#### **Second Step - Java**

- Functionality of the activity:
  - All of the functionality comes in the setup of the activity.
  - Want to pass an id that will be used to lookup the User record
  - Then once the record has been found, populate the page with the correct details





#### Java

- Modify ViewUsersActivity.java
  - getXMLControls()

```
private void getXMLControls() {
    _name = (TextView) findViewById(R.id.name);
    _email = (TextView) findViewById(R.id.email);
    _age = (TextView) findViewById(R.id.age);
    _location = (TextView) findViewById(R.id.location);
    _gender = (TextView) findViewById(R.id.gender);
    _profilePicture = (ImageView) findViewById(R.id.profilePicture);
}
```



#### Java - ViewUserActivty

```
public class ViewUserActivity extends AppCompatActivity {
    public final static String idKey = "UserId";
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity view user);
        Toolbar toolbar = (Toolbar) findViewById(R.id.toolbar);
        setSupportActionBar(toolbar);
        if (getSupportActionBar() != null)
            qetSupportActionBar().setDisplayHomeAsUpEnabled(true);
        if (getIntent().getExtras() != null) {
            int id = getIntent().getExtras().getInt(idKey);
            UserTable userTable = new UserTable(this);
            User user = userTable.getUserFromID(id);
            finish();
```



#### Java - ViewUserActivty

Create setUserDetails(User user) function

```
private void setUserDetails(User user) {
    name.setText(user.getName());
    email.setText(user.getEmail());
    age.setText(user.getAge()+"");
    location.setText(user.getLocation());
   String gender = "";
    if (user.getGender()) {
        gender = "Male";
        gender = "Female";
    gender.setText(gender);
    if (user.getHasPicture()) {
        profilePicture.setImageBitmap(user.getProfilePicture());
```



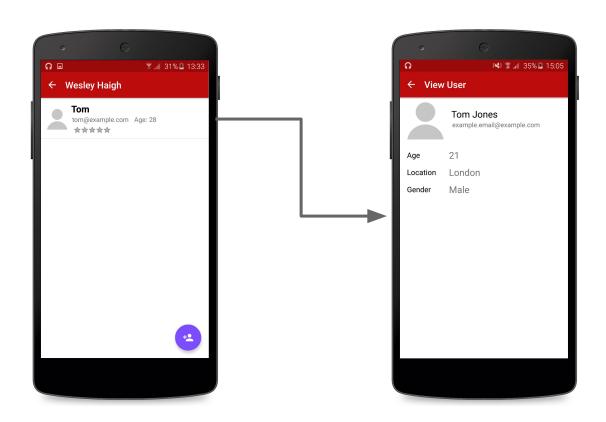
#### Java

Now we need to connect ViewUserActivity to UsersActivity

```
private void initialiseList() {
    final ArrayList<User> users = usersTable.getAllUsers();
     userListAdapter = new UserListAdapter(this, users);
     userList.setAdapter( userListAdapter);
    userList.setOnItemClickListener(new AdapterView.OnItemClickListener() {
        @Override
        public void onItemClick(AdapterView<?> parent, View view, int position, long id)
            User user = users.get(position);
            if (user != null) {
                Intent intent = new Intent(UsersActivity.this, ViewUserActivity.class);
                intent.putExtra(ViewUserActivity.idKey, user.getId());
                startActivity(intent);
```



#### **Final Product**





#### **End of Lecture Exercise**

- Fix the problem that when you create a record and go back to the list it isn't updated
  - Need to use startActivityForResult(Intent intent) in UsersActivity.
     java
  - Need to add class variable ADDED\_RECORD (int) = 1
  - Add onActivityResult function to UsersActivity



#### **End of Lecture Exercise**

- All code is in UsersActivity.java
- Add ADDED\_RECORD variable

```
public static final int ADDED_RECORD = 1;
```

Modify to use startActivityForResult(Intent intent)



#### **End of Lecture Exercise**

- All code is in UsersActivity.java
- Add onActivityResult function to UsersActivity

```
@Override
protected void onActivityResult(int requestCode, int resultCode, Intent data) {
    super.onActivityResult(requestCode, resultCode, data);

    if (requestCode == ADDED_RECORD) {
        initialiseList();
    }
}
```

# Warwick C<>ding