

Assignment

100% Overall Grade for Course Content



Options

Work on a simple App (next slide),
exhibiting similar level of
complexity/feature density as covered in
the Content Case Study - Donation.

Simple App is...

A Sports App to Manage my Triathlon Training 😊

Swimming / Cycling / Running

750m / 20Km / 5Km

Keep track of everything I do

Features could/should include

- * Display all Activities (in a List) *

- * Add an Activity (Swim / Cycle / Run) *

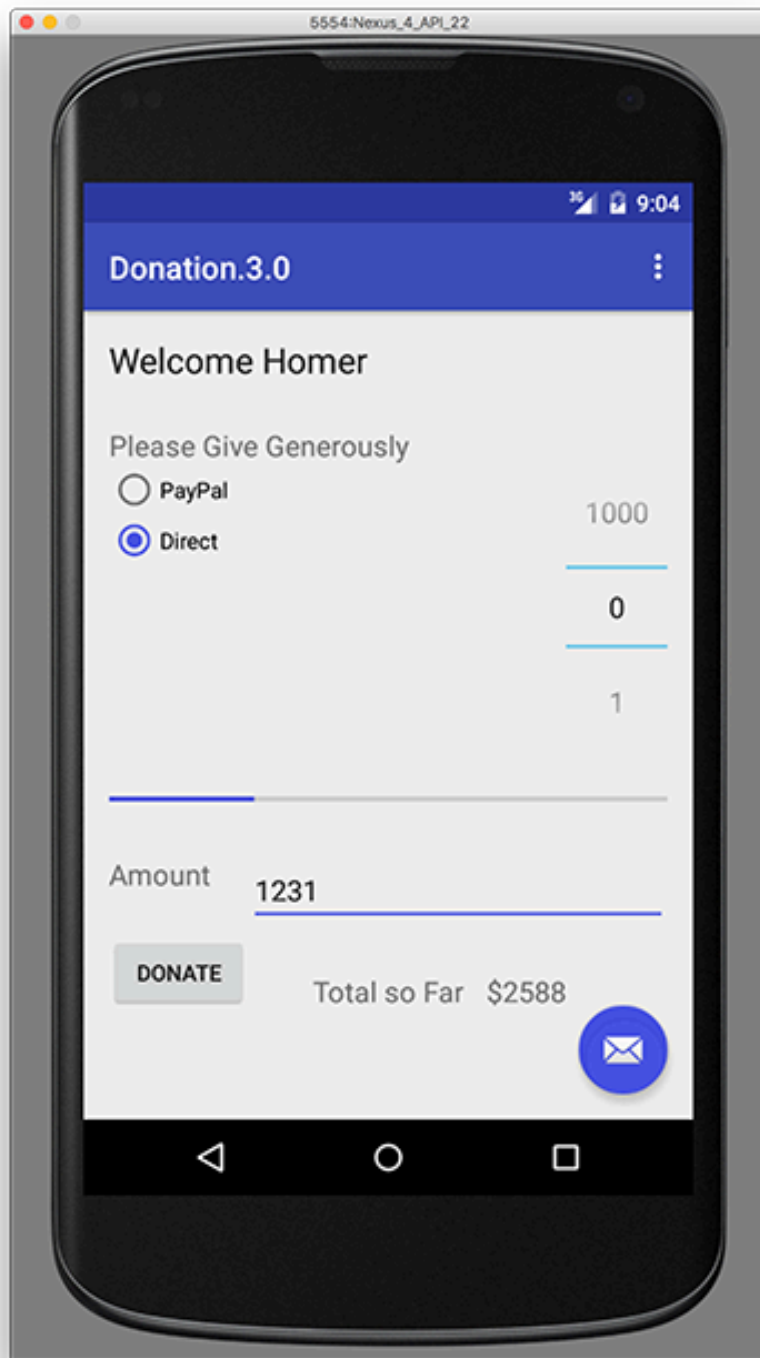
- * Delete an Activity *

- * Update an Activity *

- Display an Activity (Swim / Cycle / Run) Details *

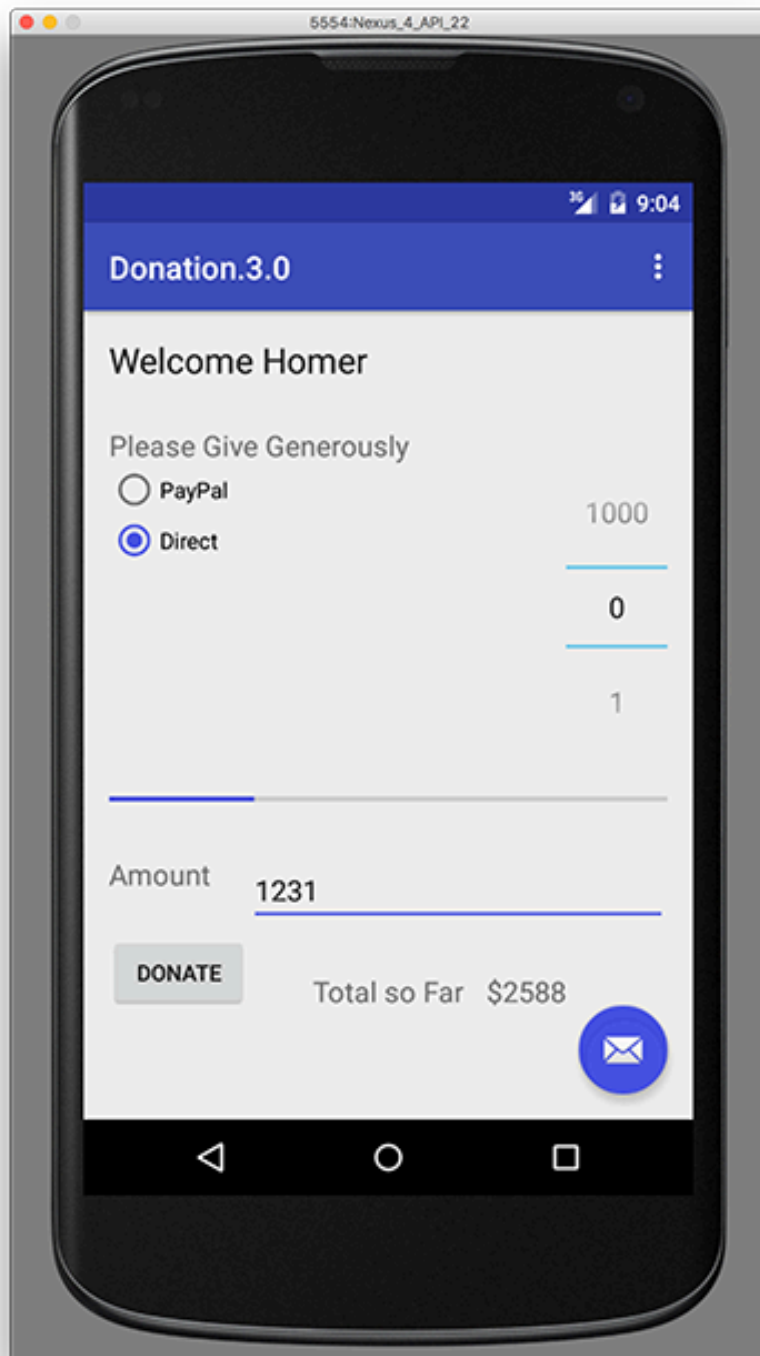
*** Anything Else you can think of! ***

Case Study - Donation



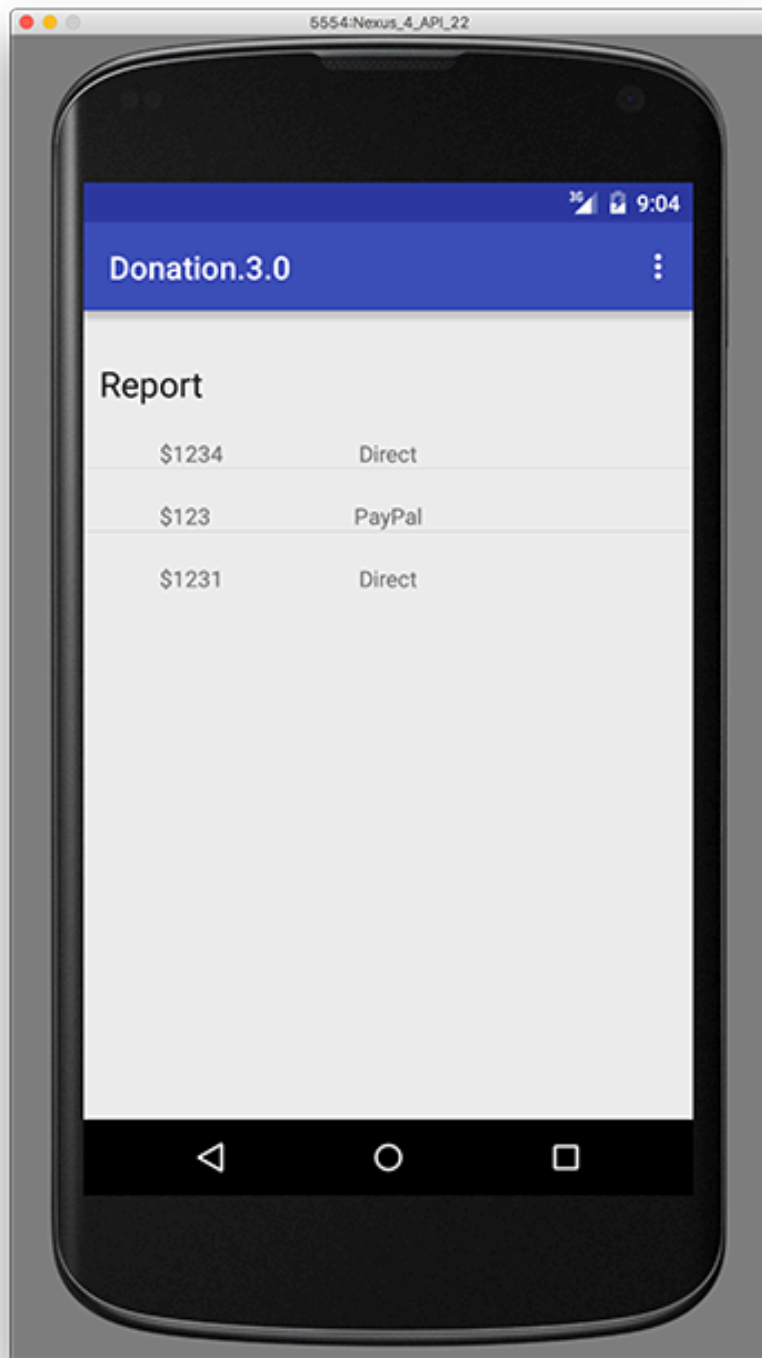
- An Android App to keep track of donations made to 'Homers Presidential Campaign'.
- App Features
 - Accept donation via number picker or typed amount
 - Keep a running total of donations
 - Display report on donation amounts and types
 - Display running total on progress bar

Donate Screen



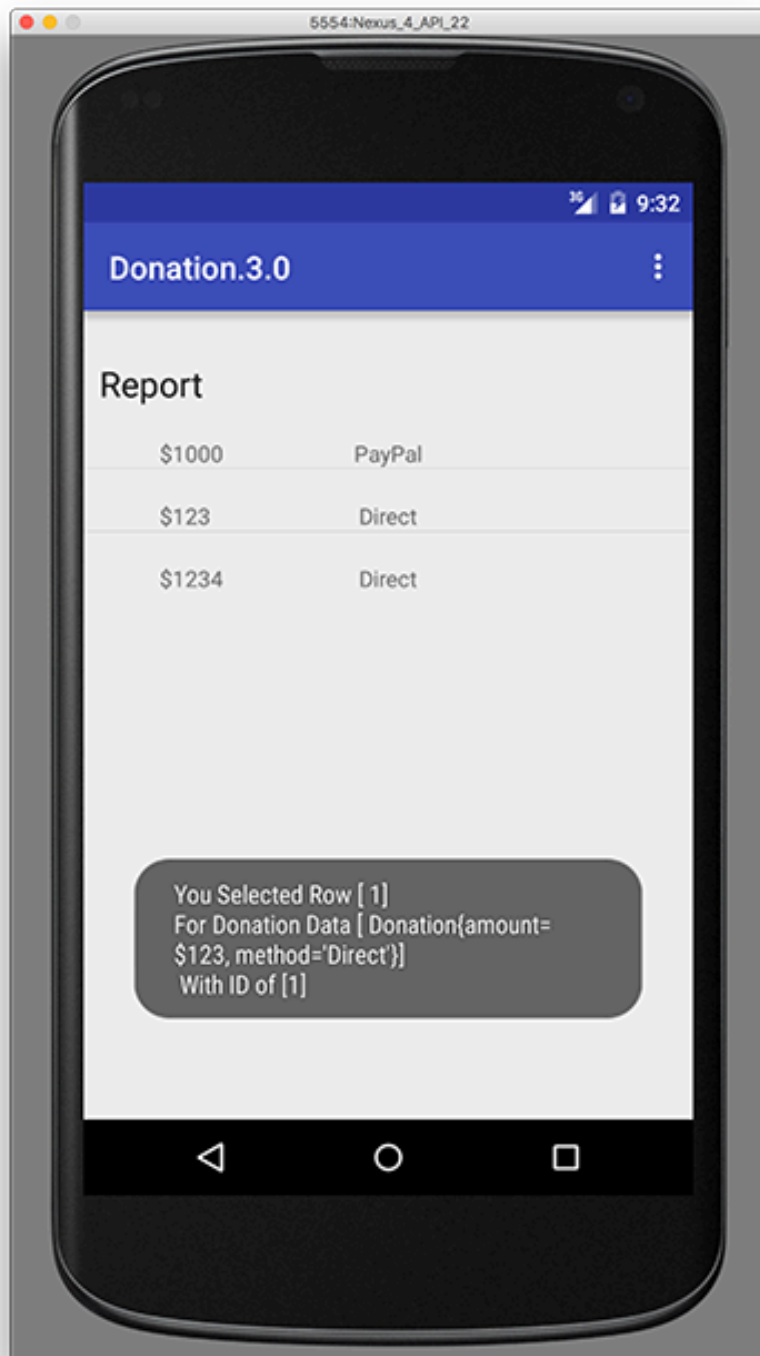
- This is the main (launch) screen.
- Single Activity
 - Welcome message
- Multiple Widgets
 - NumberPicker
 - RadioButtons
 - Button
 - ProgressBar
 - EditText etc.

Report Screen



- Single Activity:
 - 1 TextView
 - 1 ListView
 - amount donated
 - payment type

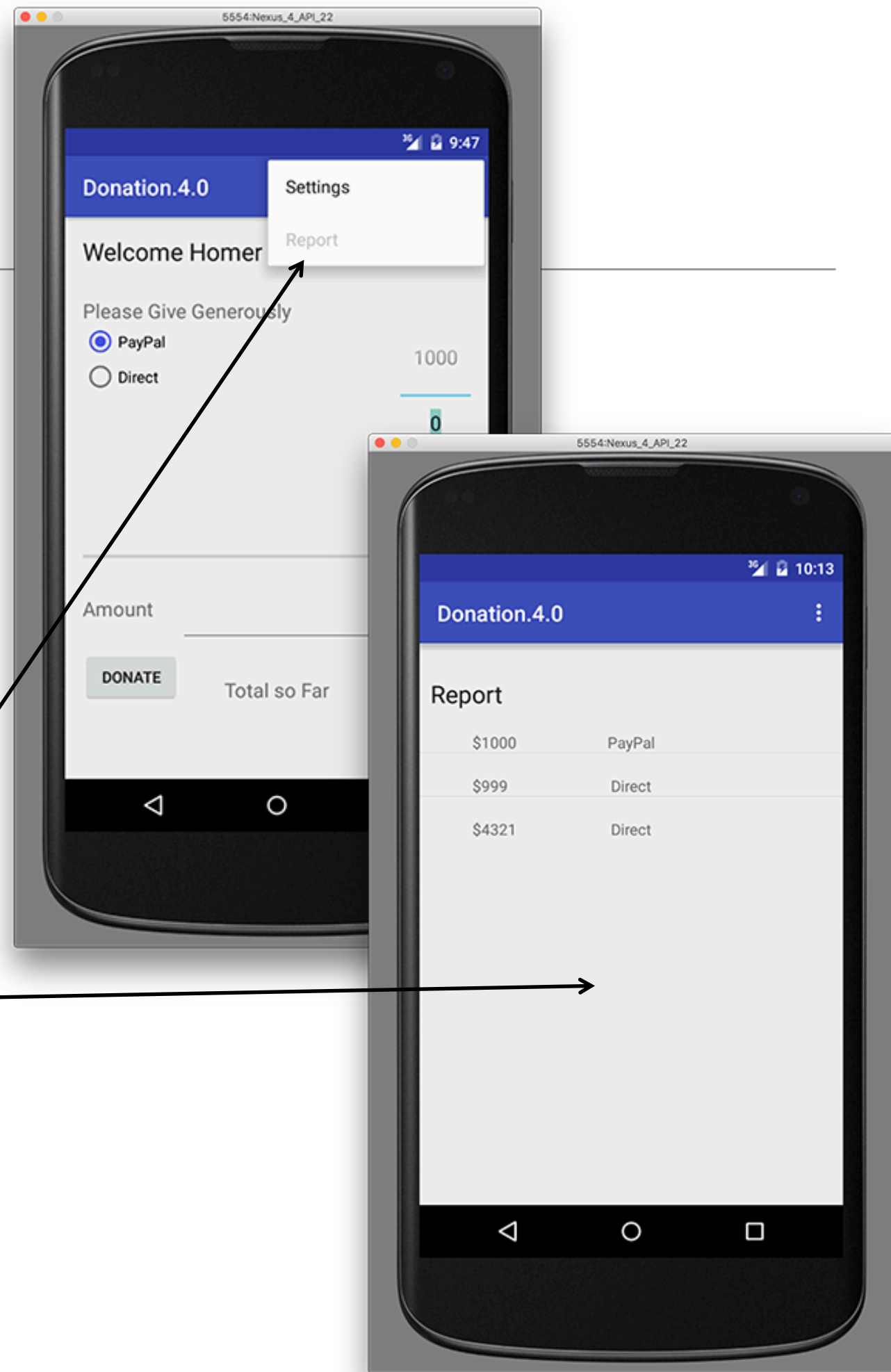
Report Screen



- Single Activity:
- Rows are 'clickable'
- access to underlying data

Action Bars

- App has an action bar with:
 - Menu options to navigate between activities.
 - Overflow option displays “Settings” and “Report”
- “Report” enabled once donations have been made



Material Design

- <https://www.youtube.com/watch?v=Q8TXgCzxEnw>
- <https://design.google.com/videos/making-materialdesign/>

Assignment Rubric

Standard	Activity & CRUD [60%]	Model & Persistence [10%]	UX [20%]	DX [10%]
Baseline <i>Pass line</i>	1 Activity List All / Detail Activity (Read HC Values)	1 Model & no persistence	App Navigation	Data Validation
Good	2+ Activities List All / Detail Activity (Create, Read)	1 Model with persistence	Conditional App Navigation (via Menus)	Adherence to Android Best Practices
Very Good	List All / Detail Activity (Create, Read, Update, Delete)	2 Models with persistence	UI Guidelines adhered to	Repo Usage, Git etc.
Excellent/ Outstanding (70%+)	Additional Activities included	3+ Models with persistence	Material Design Guidelines adhered to	Automated Testing (models)

README file

Include a VERY brief README file (max two pages):

- Names and Student IDs of Team Members.
- Brief description of functionality.
- Persistence approach adopted (if any) i.e. what's persisted and where.
- Git approach adopted and link to git project / access (if any)
- **References**

Submitting Project Code

Submit zip of code via Moodle dropbox. This zip should also include:

- the README file and
- full source of your project

Give read access to your GitHub / BitBucket repos. GitHub and BitBucket ids are:

- ddrohan

Questions?

