

Inspection Issue Log

Project: Rat Tracking Application

Inspection ID: App Code Review 1

Meeting Date: 11/13/2017

Recorder: Eric Malavenda

Origin:	Requirements, Design, Construction, Testing
Type:	Missing, Wrong, Extra, Usability, Performance, Style, Clarity, Question
Severity :	Major, minor

Defects Found: 8 Major(M), 35 minor(m)

Defects Corrected: 2 Major 15 minor

	<u>Origin</u>	<u>Type</u>	<u>Severity</u>	<u>Location</u>	<u>Description</u>
1.	<u>Design</u>	<u>Clarity</u>	<u>m</u>	<u>CreateRatReport</u>	controllers.CreateRatReport (1) +returnToRatReportList() - consider improving name
2.	<u>Design</u>	<u>Performance, clarity</u>	<u>m</u>	<u>CreateRatReport</u>	(2) +createNewRatReport() - refactor for clarity, efficiency
3.	<u>Design</u>	<u>Missing</u>	<u>M</u>	<u>MainActivity</u>	(3) controllers.MainActivity - encapsulation issues
4.	<u>Design</u>	<u>Style</u>	<u>m</u>	<u>MainActivity</u>	((4), (5)) +setUpButtonsOnStartup() - delegate some of the logic to separate method(s) - rename method
5.	<u>Design</u>	<u>Style</u>	<u>m</u>	<u>MainActivity</u>	
6.	<u>Design</u>	<u>Missing</u>	<u>M</u>	<u>RegistrationActivity</u>	((6), (7)) controllers.RegistrationActivity - encapsulation issues - add JavaDocs
7.	<u>Constr</u>	<u>Missing</u>	<u>m</u>	<u>RegistrationActivity</u>	
8.	<u>Constr</u>	<u>Wrong</u>	<u>m</u>	<u>ReportListActivity</u>	(8 -> 12) controllers.ReportListActivity - ReportRecyclerView -> fix debug issue - Recycler attributes hard-coded - move sortRatReportByDates to RatReportManager or more appropriate class
9.	<u>Design</u>	<u>Style</u>	<u>m</u>	<u>ReportListActivity</u>	

10	<u>Design</u>	<u>Style</u>	<u>m</u>	<u>ReportListActivity</u>
11	<u>Design</u>	<u>Usability</u>	<u>m</u>	<u>ReportListActivity</u>
12	<u>Design</u>	<u>Performance</u>	<u>M</u>	<u>WelcomeActivity</u>
13	<u>Design</u>	<u>Performance</u>	<u>M</u>	<u>WelcomeActivity</u>
14	<u>Design</u>	<u>Missing</u>	<u>M</u>	<u>Admin</u>
15	<u>Design</u>	<u>Style</u>	<u>m</u>	<u>Model</u>
16	<u>Constr</u>	<u>Perfor- mance</u>	<u>M</u>	<u>Model</u>
17	<u>Constr</u>	<u>Wrong</u>	<u>M</u>	<u>Model</u>
18	<u>Constr</u>	<u>Perfor- mance</u>	<u>M</u>	<u>Model</u>
19	<u>Constr</u>	<u>Wrong</u>	<u>m</u>	<u>PersistanceM anager</u>
20	<u>Design</u>	<u>Style</u>	<u>m</u>	<u>RatReport</u>

- separate detailed view instead of just Toast for report details
- make individual report attributes independently selectable

((12), (13))

controllers.WelcomeActivity

- AsyncTask for loadRatReports(), loadUsers()
- move this task to occur after user logs in

(14) model.Admin

- add methods for functionality

(15 -> 18) model.Model

- change name to UserManager
- speed vs storage. New hash map for each instance of app run is unnecessary. Data structures that contain same info lead to redundancy. (e.g., +addNewUser(user : User) adding to list and hash map is unnecessary
- Default password creation is security concern
- efficiency problem creating a new copy of userList each addUser() instance

(19) model.PersistenceManager

- +loadBinary(file : File) - remove debug message

(20) model.RatReport

- +setReportDate(date : Date)
- Use DatePatternGenerator?

21	Constr	Extra	m	RatReport Loader	(21 -> 25) model.RatReportLoader
					- remove hanging JavaDocs
22	Design	Performance	m	RatReport Loader	- +getRatReportsFromCSV(csvInput : InputStream) - improve implementation for efficiency gains
23	Design	Performance	m	RatReport Loader	- contains() -> place in a utility class for shared class usability, make it public
					- +getRatReportDate() -> move date formatter to RatReport class
					- +getReportLatitude(), +getReportLongitude() -> combine into a single method
24	Design	Style	m	RatReport Loader	
25	Design	Style	m	RatReport Loader	
26	Design	Style	m	RatReport Manager	(26 -> 27) model.RatReportManager
27	Constr	Wrong	m	RatReport Manager	- external method to call +loadRatReports() from Activity class. Limited to this implementation
					- fix typo in JavaDocs for +loadRatReports() method
28	Design	Style	m	ReportLocation	(28 -> 29) model.ReportLocation
29	Constr	Wrong	m	ReportLocation	- create enum for Borough
					- setZipCode() make public
					- create enum for locationType
30	Constr	Style	m	User	(30) model.User
					- remove RegistrationActivity instance creation from inside default no arg constructor
31	Constr	Extra	m	DateRange	((31), (32)) model.DateRange
					- remove comments in onCreate()
					- subtracting 1900 is needed because Date constructor is deprecated. Use non-dep constructor.
32	Design	Style	m	DateRange	- move some of the logic in onCreate into separate method(s)

(33 -> 35) controllers.GraphActivity

- move some code out of +onCreate()
(33) [Design, Style, m, GraphActivity]
- hist (Map) change add to put method calls,
nested for loop for year, month
(34) [Design, Performance, m, GraphActivity]
- minor detail -> readability: change hist to histogram
(35) [Design, Style, m, GraphActivity]

(36 -> 38) controllers.GraphSetUp

- find a way to re-use DateRange class instead of creating a new copy.
(36) [Design, Performance, m, GraphSetUp]
- create a Model-type class for shared methods belonging to Graph classes
(37) [Design, Performance, m, GraphSetUp]
- Remove hanging JavaDocs
(38) [Constr, Extra, m, GraphSetUp]

(39 -> 43) controllers.MapsActivity

- outdated JavaDoc comment for +onMapReady()
(39) [Constr, Wrong, m, MapActivity]
- line 51 move
(40) [Constr, Wrong, m, MapsActivity]
- line 49 change to New York (from Sydney)
(41) [Constr, Wrong, m, MapsActivity]
- consider renaming +getRatReportFilteredList() method
(42) [Design, Style, m, MapsActivity]
- shared method for access to DateRange, with GraphActivity class
(43) [Design, Performance, m, MapsActivity]