

Inspection Review Checklist

Completed by Elliot, for Ashton

Sample code from file: CacheCreator.java

General

1. ☒ Does the code work?
2. ☐ Is it easy to understand?
 - a. could replace all of the for loops with java enhanced for-loops for increased readability
3. ☒ Does it follow conventions?
4. ☐ Is there duplicate code?
5. ☐ Can global variables be replaced?
6. ☐ Is there commented out code?
7. ☒ Do loops have a set length or defined exit conditions?
8. ☒ Do the names explain their purpose?

Performance

1. ☒ Can it be refactored to be more efficient?
 - a. lots of for loops searching for a cache by id, could use a Map<cacheId, Cache> instead of List<Cache> to alleviate this
2. ☐ Can it be replaced by a library?
3. ☒ Can logging/debugging stuff be removed?
 - a. In a real app you might wanna move the main() method test driver to a different class I guess
4. ☒ Does it suspend resource intensive processes if the application is minimized/loses focus?

Security

1. ☐ Data inputs checked and encoded?
 - a. Might wanna ensure that cache ID's aren't reused in createCache(). maybe this is checked in the code elsewhere already.
2. ☒ Are returning errors being caught?
3. ☐ Are output values checked and encoded?
 - a. could be useful to raise an exception or return a special value when getting/creating/deleting by a cache id that is not found
4. ☐ Are invalid parameter values handled?

- a. latitude , longitude, terrain, size could be validated for being within range
5. ☒ Are Android Permission properly checked if required?

Documentation

- 1. ☒ Do comments exist to explain the intent without being too obvious?
- 2. ☒ Are all functions commented?
- 3. ☒ Are edge cases checked?
- 4. ☒ Is the use of third-party libraries documented?
- 5. ☒ Are units of measure explained?
- 6. ☒ Is the code missing features marked with TODO?

Testing

- 1. ☒ Is the code testable?
- 2. ☒ Do comprehensive tests exist?
- 3. ☒ Do the tests properly test the code?
- 4. ☐ Could test code be replaced with an existing API?
 - a. could use an existing test framework like JUnit