Analysis Protocol

1. Check in the section below ("Commits to Analyse"), for each project, which is the list of commits you should analyse.

2. When selecting the commit, check in the *.json* file (outputsample.json) which method(s) should be analysed *(eg*, commit *8c1cf5890* from *dubbo* has class *'com.alibaba.dubbo.config.AbstractInterfaceConfig'* and method *'AbstractInterfaceConfig.checkStubAndMock'* within the list of *"exceptionalChanges"*

3. Once the commit is selected, see this change on the project' github page

4. Draw a relationship between the exceptional change and the smells that the method in question has (*eg., **dubbo's*** method above has a feature envy and a long method)

5. Fill in the notes in the csv file (*rq1_analysis.xlsx*) in the respective line of the commit, class, method

Commits to Analyse

apm-agent-java

P1 [77fc599fd, dc78d6d8, ee6c990a6]

P2 [379519e28, 2688c4523, 31951f695, f86507304]

P3 [a739286a2, f50df6608, 023d63229]

P4 [df7159e4, 575d55755, 5fcd8a064]

P5 [19a6883c, 59d97f085, 006f7ee50]

P6 [39e6a418d, cfe60e16d, c95e5e524]

dubbo

P1 [e1f4466c3, c4815f560, 669705c7d, 0a746cc26, 259dff2d0, 9f5cc83d3, fe456d966, 1e28f7a49, 518c5961e, 47ec6598, 215ed3664, 288c1a582]

P2 [4ef74fa9c, 1d7e8fac4, 1aae6956d, 3a3d0ef50, d0033d1f9, d2c14e453, e31fd26f2, 547170d1e, 64d6ac806, d7e2ef42]

P3 [68e5522a6, 62e204e42, 228cad5ef, 9ae6ed76c, ffd98a559, 79e69ad35, 0f4e60dca, c255ad696, e1259519c, 0a2978336, ee7870c5a, fd7597a87, 42f052905, 2fad342ce]

P4 [75853a886, e508ad467, 795a84005, acfc86f1a, 260461809, 048fadf2c, a001f983, 954e20f74, f53d8a53d, 3d5f3589f, 3e6ae66fd, cd34cc5ac]

P5 [409740588, 1af724028, 5f641a945, c18e6c367, 413a2a028, 56c931eae, 84490177d, 1c1101d57, d32ff6065, e25632026, 3124dd8ac, f1ea45112, e3916ef64]

P6 [4aaaea43a, 4fa7c8322, 292f861f9, 21046c85e, 8e5eac1ac, 51f0677c8, 70ec90dae, 06249e458, 416c57529, 0ad3577dd, c805c1dd3, ea0506aa6, 39f84fe8f, 3cd4603d0, 5cc382143]

elasticsearch-hadoop

P1 [6066f849, df2e6789, 439805ad]

P2 [6646714, 66082cc, cd26933]

P3 [03c05614, 295e14c5, 1284ee2c]

P4 [c916e5e3, 2d5fe478, 129854da, a08f9e76f]

P5 [874ad5d1, 621e8637, 7edf46cf, 4de26310e]

P6 [eae94fd5, fdc7d11d, 8c88f29]

remaining: [30401d16, ad3651d, 134d4c59]

fresco

P1 [0df51c559, d5a49eda5, f15584ff5]

P2 [027f95d68, 3f581099a, cc75c37e]

P3 [0ce993fde, 4a64df009, ea311f6c8]

P4 [a7873dc65, 51efaa75f, f8991e129]

P5 [7d67c7ffa, 03077e8da]

P6 [8922dd729, 7e29e1ad0]

Netty

P1 [d348ae9e7a, 9427255ff, af63626777, 1529ef1794, e208e96f12, 090e9a7271]

P2 [14154074f2, def8a3f17d, 1c230405fd, fedcc40196, f176384a72]

P3 [93f021141d, 84cf8f14e9, 86dd388637, 06a5173e8d, d487086a2c]

P4 [14e856ac72, d58d8a1df8, 55957d3e75, 69cd042401, 4d09c5ff98]

P5 [95652fef12, 286f14f04a, ce02d5a184, 15fa45a84, 098705040d]

P6 [2110755af0, c7441f68f3, a3e8c86741, de4627852f, 6339557676, 6ce15414ff]

okhttp

P1 [86c3233f9, a73c21771, 6133a9361, 081c74433, 7489193d5, 0f5c5c643, 36c70605c, 2e036f61a, 1c9846483]

P2 [d8213e815, a44194de5, ed0082262, a7d339604, 479ea36f8, 4f24a30c1, f1dea26fd, 89dc6d0c3, 33109cd8e, 74a74d19d]

P3 [a52c51081, 6f029dd3d, 38df77497, 768964c99, d8552f091, f2cf77016, 8def52425, 0aa5723dc, 529c4a36, 7053d1636, 219f286fe]

P4 [ed43e07ff, 1952a1078, c0c690ada, 3435a805d, a96c3a800, 44a95fc32, 2594c6c69, fc238a225, 60f5406dc, d7a093091, 7e9d190a]

P5 [61c1dad83, 5c4e76237, 51e4e3984, 457f4994a, 3e126109c, 6651a9c15, ca37ac991, 29267ac4e, e14817d99]

P6 [5373160d2, 2069e159e, 81c7461c9, 51ca7c55d, 5c7257d8d, 07309c1c7, 576408374, e7d74f47c]

RxJava

P1 [2a1cdc2e1, a5df9633c]

P2 [d2c9c34e3, d4e8f2973, 48516372]

P3 [54d92792f, 7a1a4afad, f97c50dad]

P4 [4a614dca0, cec5dcc68]

P5 [35281d578, f59ce0093, c3a1d911]

P6 [af3107cd4, dd5c6464f]

spring-security

P1 [05caf3d8f]

P2 [0fa339f75]

P3 [d472e99528]

P4 [f9747e6591]

P5 [, e6d40e8280, 7a715f9086]

P6[e584207a85]