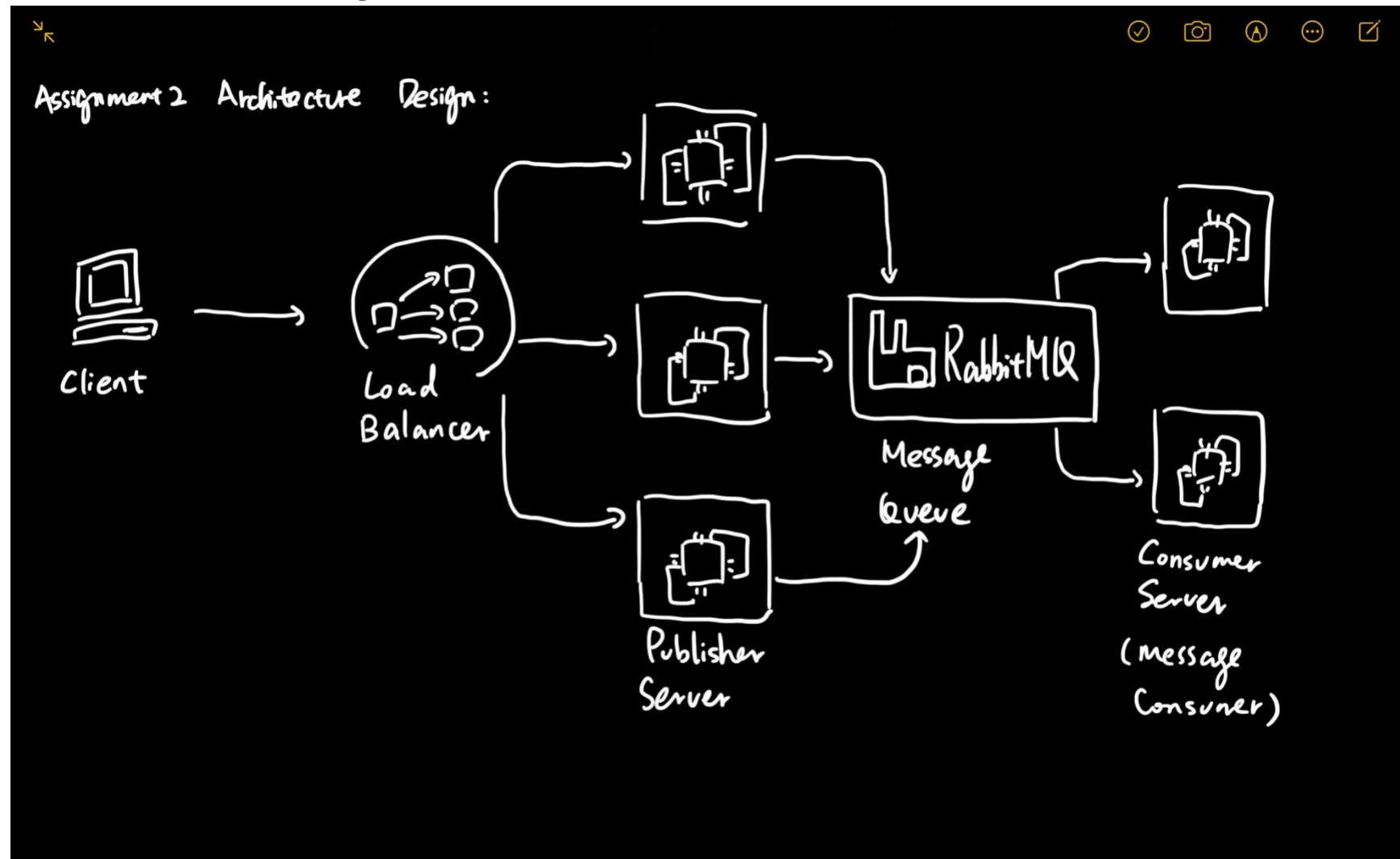# Assignment2: Twinder Server Design Report

CS6650 Distributed System
Zidi Xia
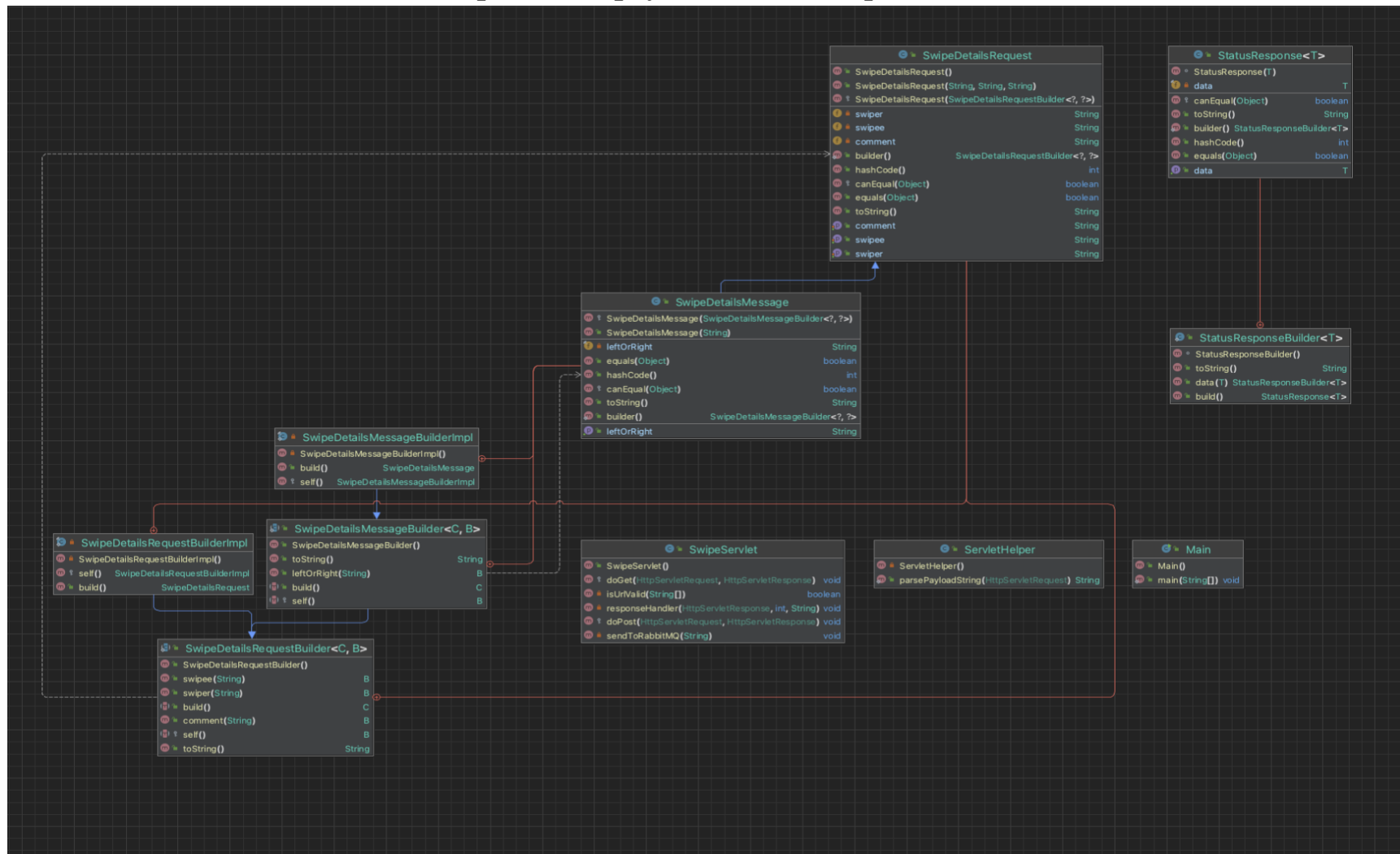
The URL of git repo:

https://github.com/sharonzidi/cs6650_twinder/tree/main/Assignment2
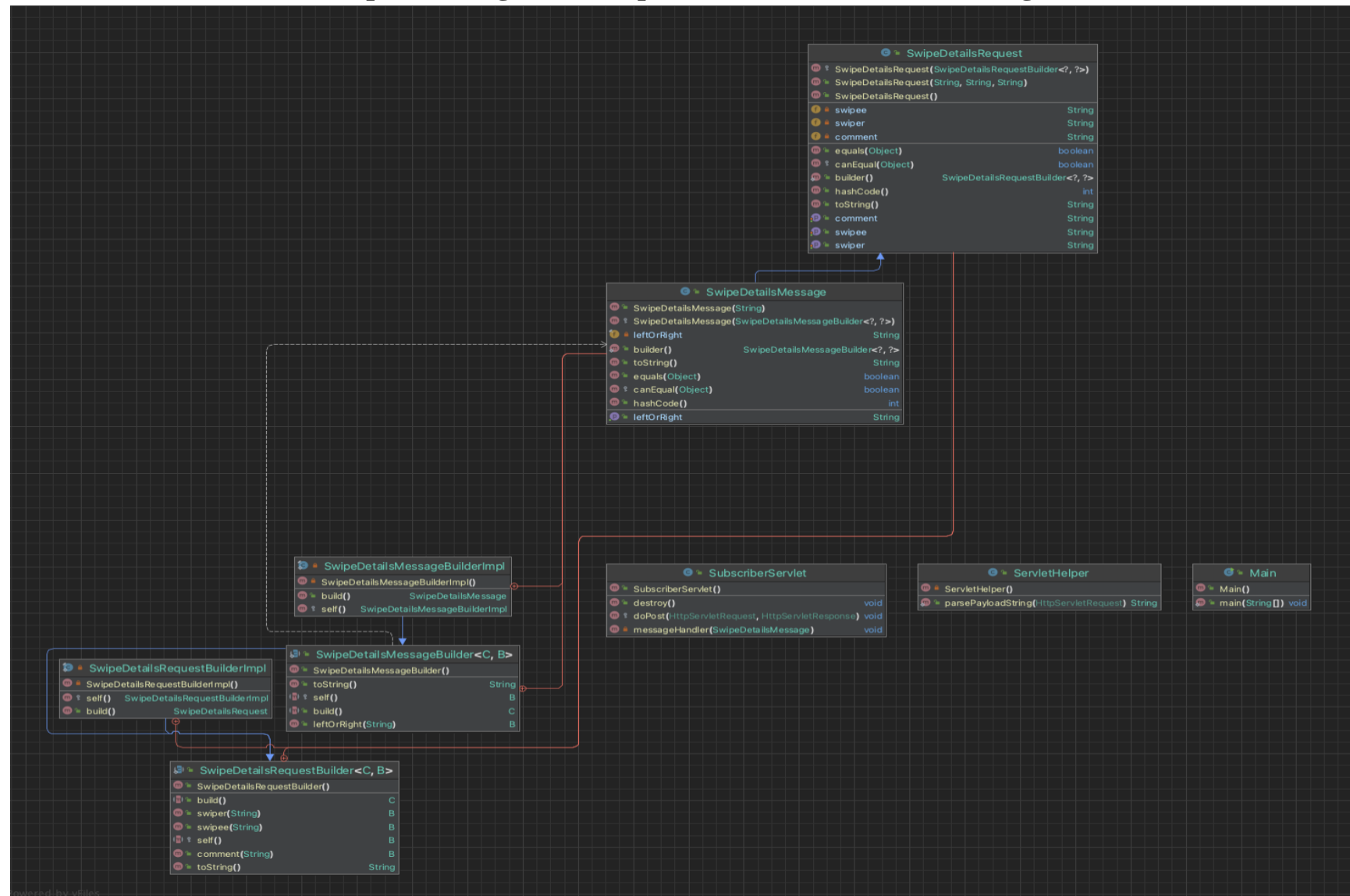
Twinder Architecture Design:

Twinder Publisher Server: send Swipe data as payload to remote queue and return success to the client.

This UML shows the Major Classes, Packages, and Relationships of Twinder Publisher Server.

Twinder Subscriber Server: pull messages off the queue and consume each message.

This UML shows the Major Classes, Packages, and Relationships of Twinder Subscriber Server.

Test run results for a single servlet: number of requests = 50000, number of threads = 150

Consumer Client receiving message from RMO (command lines logs):

```
Received message: {"leftOrRight":"left","swiper":"4428","swipee":"443625","comment":"dubpyiodfteassenlvmnunfhrygphgkmuwmeximeoasbohcofxdfwkslzozmyusclqbatmxigwxmpyobrzkvwvojazmhoidoazlhihkikrgexcfptficnbsnkhwk
SwipeData(userId=1128, numLikes=60, numDislikes=35, likedSwipeeIds=[9019, 324425, 603256, 603767, 502632, 732658, 148335, 337421, 11672, 312127, 775485, 719036, 670275, 388169, 409707, 650798, 890412, 188118,
Received message: {"leftOrRight":"right","swiper":"197","swipee":"78194","comment":"vsqvfmzuhlooxzblmovagvzblgycidlyyiyjozuggwelcoqqcyiemykpuguynqxuxivywroqayhbgdohdtygjaaagmhthujmezktcurjhmhrwvmcfngdxuwujkcey
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Received message: {"leftOrRight":"right","swiper":"4823","swipee":"525370","comment":"twczmfgsbzienhxyrnhytuebrlmfhxwktcbzthwbtdrnsctxhzucwvxlsibacxemotrvjehojjmlgmseovwjdxhmchpvmkyhcpnilcpapxafpfvmlqbqglvqaem
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SwipeData(userId=1128, numLikes=60, numDislikes=35, likedSwipeeIds=[9019, 324425, 603256, 603767, 502632, 732658, 148335, 337421, 11672, 312127, 775485, 719036, 670275, 388169, 409707, 650798, 890412, 188118,
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Received message: {"leftOrRight":"right","swiper":"422","swipee":"154955","comment":"inbzssqzqljdeedkyeyurepaidrdervvqoerhvclfflxtvataqefzmzepsqygbljjngjzjkevtusqcakqfwxeftqioymlewhoekdnlohdsxqfsvltriqkxiuqxwm
SwipeData(userId=1128, numLikes=60, numDislikes=35, likedSwipeeIds=[9019, 324425, 603256, 603767, 502632, 732658, 148335, 337421, 11672, 312127, 775485, 719036, 670275, 388169, 409707, 650798, 890412, 188118,
Received message: {"leftOrRight":"right","swiper":"4530","swipee":"56478","comment":"swnmzarevjclrrnzacxqumacjkvsadiglqcxpbbekwzyvtegoaxjoszvruywkslmoaimjimkvgwickahydkucolzbiptricfrnwufjlnegyezbfcnixugyoxrbkd
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SwipeData(userId=1128, numLikes=60, numDislikes=35, likedSwipeeIds=[9019, 324425, 603256, 603767, 502632, 732658, 148335, 337421, 11672, 312127, 775485, 719036, 670275, 388169, 409707, 650798, 890412, 188118,
Received message: {"leftOrRight":"left","swiper":"2575","swipee":"277983","comment":"ofoespbrroajurikwtjtsfrkyoyxxxnrfrvilxepcsbgvzjqnznlspdkuhpjatkznhaoaajvwtmsvvexcsehvpzrcifxmonsefnlwbghlinupjcyskrgdngchdqt
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Received message: {"leftOrRight":"left","swiper":"2384","swipee":"657122","comment":"dakmeiqwamafxphjxdxxewptogtjrwvraikcnifvbspfpdfhnlksdrdmujrfozeqzpknlpuzljkpytkklsiqmffrehlwcuipfccdwadkqiejedecgqqsehedslir
SwipeData(userId=1128, numLikes=60, numDislikes=35, likedSwipeeIds=[9019, 324425, 603256, 603767, 502632, 732658, 148335, 337421, 11672, 312127, 775485, 719036, 670275, 388169, 409707, 650798, 890412, 188118,
Received message: {"leftOrRight":"left","swiper":"4745","swipee":"897458","comment":"kdbuwaqdofqadslrxokhvwnidrzwixejepguwdmredaiakokgkybrdgwixezdhdkwkpuriuytxcnutsswvqbdkzdjlvdfulhfzotthmtstaxmpdfpwocrmgeevfa
SwipeData(userId=1128, numLikes=60, numDislikes=35, likedSwipeeIds=[9019, 324425, 603256, 603767, 502632, 732658, 148335, 337421, 11672, 312127, 775485, 719036, 670275, 388169, 409707, 650798, 890412, 188118,
Received message: {"leftOrRight":"left","swiper":"1474","swipee":"362480","comment":"brqwtqbgjwqbqdensnjqqbutgbitmvnxeztysrihvbukxtqpurehxrdftnyqsxcjpkvdfdvtrzmjztgcnfonoxcicssujqoqrwrgvmkkyrowrxgylzyrrhaopggk
SwipeData(userId=1128, numLikes=60, numDislikes=35, likedSwipeeIds=[9019, 324425, 603256, 603767, 502632, 732658, 148335, 337421, 11672, 312127, 775485, 719036, 670275, 388169, 409707, 650798, 890412, 188118,
Received message: {"leftOrRight":"left","swiper":"4864","swipee":"995","comment":"uzzyjsajusgwiltifwyqtxvsgjtrqrppeymmjzxclpcxjwtaxabjfnqdvkxllvnfpqjevuehyccvupkvunjxtgbtzprijtcgryehfhbnxjuatgisscyryxcddzgtxya
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Received message: {"leftOrRight":"right","swiper":"454","swipee":"159253","comment":"vhardsutietxvbbgawooxhxkdbfcdtayfboqlpjtoeltrcrvqdvsllcfsworbpalpvpnxpqqwqnrhxidjjcfantvnqfewhhdxvorwdgltpmcuochhonuogoapjdd
SwipeData(userId=1128, numLikes=60, numDislikes=35, likedSwipeeIds=[9019, 324425, 603256, 603767, 502632, 732658, 148335, 337421, 11672, 312127, 775485, 719036, 670275, 388169, 409707, 650798, 890412, 188118,
Received message: {"leftOrRight":"left","swiper":"2927","swipee":"240465","comment":"kaxfgjjckmofrdazwivqfpbfbnnauxczbveldltruvlthfmrvumbhcxgwtcsvhstnitwvubcrikvxmlagmsirmoufzswqfoccxlkaswunbtkmkbrqoddasrynqer
SwipeData(userId=1128, numLikes=60, numDislikes=35, likedSwipeeIds=[9019, 324425, 603256, 603767, 502632, 732658, 148335, 337421, 11672, 312127, 775485, 719036, 670275, 388169, 409707, 650798, 890412, 188118,
Received message: {"leftOrRight":"right","swiper":"3108","swipee":"25578","comment":"tnygvxciavjlkmjqktekpstgigeethqljnkaosdrdmusglkmzrbkmpiwweagvcwadrzuizgdloqlyfjzvnatahmbbrkhpwvgwmifrasuedrswldokiljxvqhsrta
SwipeData(userId=1128, numLikes=60, numDislikes=35, likedSwipeeIds=[9019, 324425, 603256, 603767, 502632, 732658, 148335, 337421, 11672, 312127, 775485, 719036, 670275, 388169, 409707, 650798, 890412, 188118,
Received message: {"leftOrRight":"left","swiper":"269","swipee":"94757","comment":"bajdukhqocjjulnbjaqigbyeyvraclyrnynfafdsrgkarrnwxwogzfpfnkajsinkfbwiouhlgdshjbwjcyorgsitdbqwlizcjmdvizpxyvvlkjigdlkbouzeewokid
SwipeData(userId=1128, numLikes=60, numDislikes=35, likedSwipeeIds=[9019, 324425, 603256, 603767, 502632, 732658, 148335, 337421, 11672, 312127, 775485, 719036, 670275, 388169, 409707, 650798, 890412, 188118,
Received message: {"leftOrRight":"right","swiper":"3167","swipee":"22211","comment":"hptpxurogczyvmileviaqxpdbbvadfwgxvtmdikajrqipaudlftfjaqpyepgphwnisrrmogywmuqijgyddovdojukiznrzplsulhsigjggvmfbtincvvmiljqsug
SwipeData(userId=1128, numLikes=60, numDislikes=35, likedSwipeeIds=[9019, 324425, 603256, 603767, 502632, 732658, 148335, 337421, 11672, 312127, 775485, 719036, 670275, 388169, 409707, 650798, 890412, 188118,
Received message: {"leftOrRight":"right","swiper":"3742","swipee":"973665","comment":"mdycbyvgkmnsiijecctmhqwmkvemgtnlcakekbqpeozipelfomkoktgugrxxswyqilqvjlothsjekexysyqccziidovfktvyajinyoryxmhhneybhmlwnhnqghs
SwipeData(userId=1128, numLikes=60, numDislikes=35, likedSwipeeIds=[9019, 324425, 603256, 603767, 502632, 732658, 148335, 337421, 11672, 312127, 775485, 719036, 670275, 388169, 409707, 650798, 890412, 188118,
Received message: {"leftOrRight":"left","swiper":"836","swipee":"188234","comment":"ggmjedxgryshwpkzyfmlzlkwsjjnwzhrksydxwtnqljrujrcywxfxxuzsemvvisoxvlcqpafwtggbjbrajeyuotywlfzmkaegvgpimwrtkzigsxhedavgxvdbxaxi
SwipeData(userId=1128, numLikes=60, numDislikes=35, likedSwipeeIds=[9019, 324425, 603256, 603767, 502632, 732658, 148335, 337421, 11672, 312127, 775485, 719036, 670275, 388169, 409707, 650798, 890412, 188118,
Received message: {"leftOrRight":"right","swiper":"3601","swipee":"811318","comment":"fqqyyrkzqagpgqrwiteqoskdmjhpykalgjpdytkdlzahyodxbauxogtpexqxsfzyvqcmxzuvebtvrltjoctrzcjganycbeyutafzehfwqbuepudwfzgmpobtoxl
SwipeData(userId=1128, numLikes=60, numDislikes=35, likedSwipeeIds=[9019, 324425, 603256, 603767, 502632, 732658, 148335, 337421, 11672, 312127, 775485, 719036, 670275, 388169, 409707, 650798, 890412, 188118,
Received message: {"leftOrRight":"left","swiper":"2260","swipee":"492207","comment":"dqmxtjwqquibjatxzkovmmvyveyykebxnpckwiiehrpfpgtqoaphenxcntefjsymzsvqkfdyyrcytpurxfzlytcniibsrouuevaeaozhzagyphrbaeqkvnrrkfll
SwipeData(userId=1128, numLikes=60, numDislikes=35, likedSwipeeIds=[9019, 324425, 603256, 603767, 502632, 732658, 148335, 337421, 11672, 312127, 775485, 719036, 670275, 388169, 409707, 650798, 890412, 188118,
Received message: {"leftOrRight":"right","swiper":"3009","swipee":"951880","comment":"chxgnxzazxaoqajqhqxruuxqhvcsymxyazcebppsmdiinxmgtxuiggbxlhaoxcprsspbfvdqnhiiwerwyeeghnlalwyflyxfncfiihaqudladoengdwvrgjdfsm
SwipeData(userId=1128, numLikes=60, numDislikes=35, likedSwipeeIds=[9019, 324425, 603256, 603767, 502632, 732658, 148335, 337421, 11672, 312127, 775485, 719036, 670275, 388169, 409707, 650798, 890412, 188118,
Received message: {"leftOrRight":"left","swiper":"3560","swipee":"672586","comment":"ilqqkufdhqafjfxrinlzxwqoefdaaiyqidgqactvuvcrswmyuezvwsjdubqhfdlsvxymulpamtnbysanxfhofuwweagkmzlfutbgyuaqirubttkfldtnblsxclry
SwipeData(userId=1128, numLikes=60, numDislikes=35, likedSwipeeIds=[9019, 324425, 603256, 603767, 502632, 732658, 148335, 337421, 11672, 312127, 775485, 719036, 670275, 388169, 409707, 650798, 890412, 188118,
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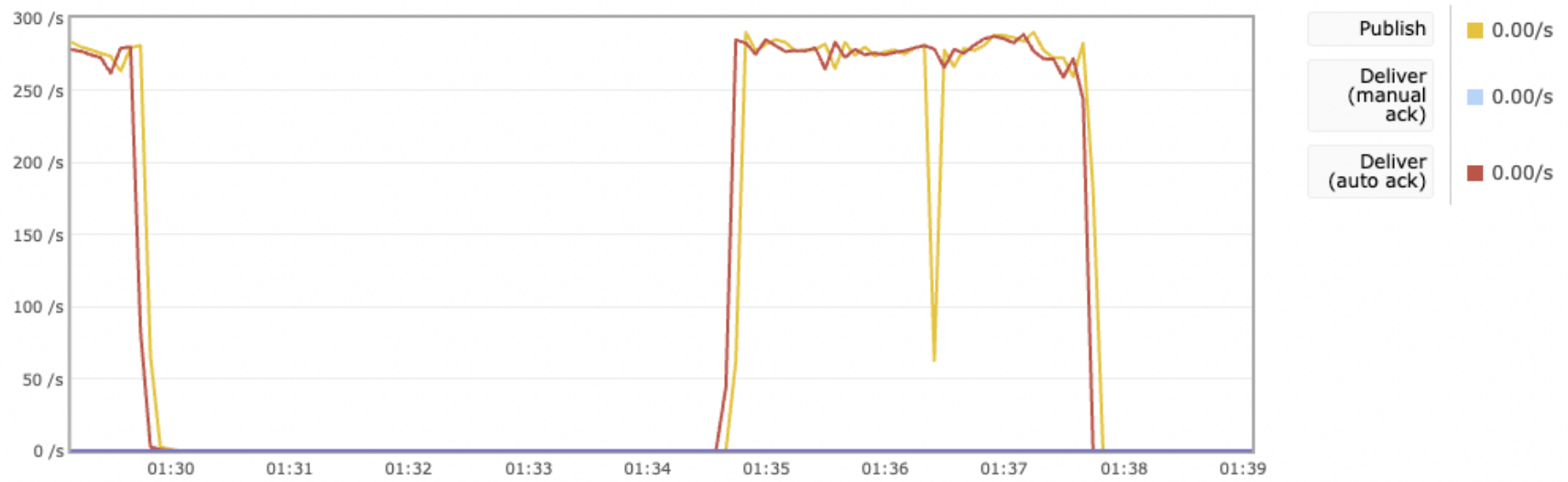
RMQ Metrix:

Message rates last ten minutes ?

Publish	280/s
Deliver (manual ack)	0.00/s
Deliver (auto ack)	276/s

Test run results for a load balanced servlet: number of requests = 50000, number of threads = 150

Consumer Client receiving message from RMO (command lines logs):

Received message: {"leftOrRight":"right","swiper":"2617","swipee":"934826","comment":"aiqbyzbcfnbbunittjljetishmxjvdxubnkyhqjlliphgncnrhxkibyvzhmfvcrufwnklbxkwlpwjmrydqekvyplmzwaoplsdrqmqfr
SwipeData(userId=151, numLikes=32, numDislikes=12, likedSwipeeIds=[913783, 649147, 376349, 450529, 483467, 732882, 380026, 711862, 972400, 647695, 658684, 635295, 640019, 258540, 870842, 73
Received message: {"leftOrRight":"right","swiper":"322","swipee":"453336","comment":"cegydyyfuvuikcdrjsouihkhmswdbgxpfddpfvslcqcljrzviwsuwdgfoizlwkrrdchnunntknpfasgyeozbsvmsildriokhvczymopr
SwipeData(userId=151, numLikes=32, numDislikes=12, likedSwipeeIds=[913783, 649147, 376349, 450529, 483467, 732882, 380026, 711862, 972400, 647695, 658684, 635295, 640019, 258540, 870842, 73
Received message: {"leftOrRight":"right","swiper":"1517","swipee":"984940","comment":"ybbortcnccsgllgpnmqaistmipfdwhbqfeiraxqirtmxmizianctbkoynxhywbkmigzoshgdbedobkrqpjyyjwzyjuqxyidgvzqywyd
SwipeData(userId=151, numLikes=32, numDislikes=12, likedSwipeeIds=[913783, 649147, 376349, 450529, 483467, 732882, 380026, 711862, 972400, 647695, 658684, 635295, 640019, 258540, 870842, 73
Received message: {"leftOrRight":"left","swiper":"540","swipee":"230672","comment":"fayhkrzrmikzkrohobuuyaslxqnmgrpufnzncnqirwxpbkteogeflrcbkmtpivuefnwazgqjyfibdmteveaaybwqufwomgasustibsdad
SwipeData(userId=151, numLikes=32, numDislikes=12, likedSwipeeIds=[913783, 649147, 376349, 450529, 483467, 732882, 380026, 711862, 972400, 647695, 658684, 635295, 640019, 258540, 870842, 73
Received message: {"leftOrRight":"right","swiper":"3869","swipee":"669826","comment":"eofrjcnqanlzykdrfbitinanpimhajafuzzwgtncfudociealsewdumelzkvcopaskyrobimjceytjmojqdvxcvhdplxqtzokvwnbzd
SwipeData(userId=151, numLikes=32, numDislikes=12, likedSwipeeIds=[913783, 649147, 376349, 450529, 483467, 732882, 380026, 711862, 972400, 647695, 658684, 635295, 640019, 258540, 870842, 73
Received message: {"leftOrRight":"left","swiper":"352","swipee":"769036","comment":"aqhggwuxvcuubcygcnxnxjokevoagskdzfojklzlzdcewllwecwjitfirgxpxujlanbgpyrrvoiuhfipgjlbsajijhnhxozfbncukswzp
SwipeData(userId=151, numLikes=32, numDislikes=12, likedSwipeeIds=[913783, 649147, 376349, 450529, 483467, 732882, 380026, 711862, 972400, 647695, 658684, 635295, 640019, 258540, 870842, 73
Received message: {"leftOrRight":"left","swiper":"508","swipee":"778895","comment":"svxdemzectfwnstfdvfofobqttnoyjosgydyeulrkzmrgoccevzwqxaqjiocxyvpuoqufrewpxkljgknofewpxicedfofetqpwpgyhzi
SwipeData(userId=151, numLikes=32, numDislikes=12, likedSwipeeIds=[913783, 649147, 376349, 450529, 483467, 732882, 380026, 711862, 972400, 647695, 658684, 635295, 640019, 258540, 870842, 73
Received message: {"leftOrRight":"right","swiper":"3843","swipee":"40767","comment":"jrwwccwjpjifljnlkmmwzamuutzxznloniclekuggwqaesbygywcvdciwlkgtyuirognhjkmrgpjpuukcwjoccxubstgilwactxfilel
SwipeData(userId=151, numLikes=32, numDislikes=12, likedSwipeeIds=[913783, 649147, 376349, 450529, 483467, 732882, 380026, 711862, 972400, 647695, 658684, 635295, 640019, 258540, 870842, 73
Received message: {"leftOrRight":"left","swiper":"3418","swipee":"207599","comment":"ntrkhzenaschpcgkofluntmjgvwnvncspzmaugihmjzkczdzmpmdwdqouqicyreyqerjrxxqrkznkuuwcuawhozredkzxpdzebjhntzy
SwipeData(userId=151, numLikes=32, numDislikes=12, likedSwipeeIds=[913783, 649147, 376349, 450529, 483467, 732882, 380026, 711862, 972400, 647695, 658684, 635295, 640019, 258540, 870842, 73
Received message: {"leftOrRight":"right","swiper":"4868","swipee":"809375","comment":"srusjfwniazdjemiwgenifjvibbchuxklidhflhigsrezjckjgrnhqaspwqmifhcnkfgtaxthnzphgnguzstdvzvuujsxqhbegqnnce
SwipeData(userId=151, numLikes=32, numDislikes=12, likedSwipeeIds=[913783, 649147, 376349, 450529, 483467, 732882, 380026, 711862, 972400, 647695, 658684, 635295, 640019, 258540, 870842, 73
Received message: {"leftOrRight":"left","swiper":"2902","swipee":"121335","comment":"yphrmrvirfsncvqcfvormzdanluuytsyepddutfvqhgdfyxppdcpfttbahcgolansjnbzufvyihsuytfgnskdfeeuaxeudtaqoiwtozt
SwipeData(userId=151, numLikes=32, numDislikes=12, likedSwipeeIds=[913783, 649147, 376349, 450529, 483467, 732882, 380026, 711862, 972400, 647695, 658684, 635295, 640019, 258540, 870842, 73
Received message: {"leftOrRight":"left","swiper":"794","swipee":"564756","comment":"pejsjbkaaryipnpmmyjywpnyupwwgefgijxuncknrlzwalsgtitycappbcknqbiyvianhkqksfzbrtieohkslwhonkzamtxtdtajoarep
SwipeData(userId=151, numLikes=32, numDislikes=12, likedSwipeeIds=[913783, 649147, 376349, 450529, 483467, 732882, 380026, 711862, 972400, 647695, 658684, 635295, 640019, 258540, 870842, 73
Received message: {"leftOrRight":"left","swiper":"1370","swipee":"643091","comment":"tbnhsvebublxcvakixtvoxfhansyebhibhdajtoidshtwwfeytuzgjinpaquxehectrlhzhbyrovhqvnlziayhbxzxrnkvnmvgyrseos
SwipeData(userId=151, numLikes=32, numDislikes=12, likedSwipeeIds=[913783, 649147, 376349, 450529, 483467, 732882, 380026, 711862, 972400, 647695, 658684, 635295, 640019, 258540, 870842, 73
Received message: {"leftOrRight":"right","swiper":"617","swipee":"672120","comment":"yflquhmunmbtjojfaiwbxyuonmeiuydedkazzgqhcxmtqhpeehjuqvqucjwuyrhlhwiwrmfrufmfwyxagnbcpjgiiqlfqprbcvourdwa
SwipeData(userId=151, numLikes=32, numDislikes=12, likedSwipeeIds=[913783, 649147, 376349, 450529, 483467, 732882, 380026, 711862, 972400, 647695, 658684, 635295, 640019, 258540, 870842, 73
Received message: {"leftOrRight":"right","swiper":"3212","swipee":"532626","comment":"smwkxrpxdxikobzklyyhqroqpygadtqtrrrgzbhgiickownmvjoschtckzjpdsliygphhvxygkvchsznbuarcswurzlpirrvebmdxkd
SwipeData(userId=151, numLikes=32, numDislikes=12, likedSwipeeIds=[913783, 649147, 376349, 450529, 483467, 732882, 380026, 711862, 972400, 647695, 658684, 635295, 640019, 258540, 870842, 73
Received message: {"leftOrRight":"right","swiper":"4443","swipee":"588371","comment":"vgsdtyhablelmucgubdujxlmfpgctcvocflhvfzdvfakhmbzwnxurnkhvbedsbtqzqvvkshedadkgjsvijyyfxhplcxzblcdmuazzml
SwipeData(userId=151, numLikes=32, numDislikes=12, likedSwipeeIds=[913783, 649147, 376349, 450529, 483467, 732882, 380026, 711862, 972400, 647695, 658684, 635295, 640019, 258540, 870842, 73
Received message: {"leftOrRight":"left","swiper":"3429","swipee":"205531","comment":"nackzaprarusiixqfclraxajkqrplrlmxgbuhbvcfxdmbnfoycunenvqrwchygxujietdfybsvkkagyifuvyxtfahvekqvtrqasghmdt
SwipeData(userId=151, numLikes=32, numDislikes=12, likedSwipeeIds=[913783, 649147, 376349, 450529, 483467, 732882, 380026, 711862, 972400, 647695, 658684, 635295, 640019, 258540, 870842, 73
Received message: {"leftOrRight":"left","swiper":"4114","swipee":"187130","comment":"pekjoflfjdaovcparaxtjqwxiicwyqfmxeiiikugqquxpzbhlofpqngmrbynxlcgwgalbjdasolrejjpnntwvbroakpfcptjfandsdch
SwipeData(userId=151, numLikes=32, numDislikes=12, likedSwipeeIds=[913783, 649147, 376349, 450529, 483467, 732882, 380026, 711862, 972400, 647695, 658684, 635295, 640019, 258540, 870842, 73
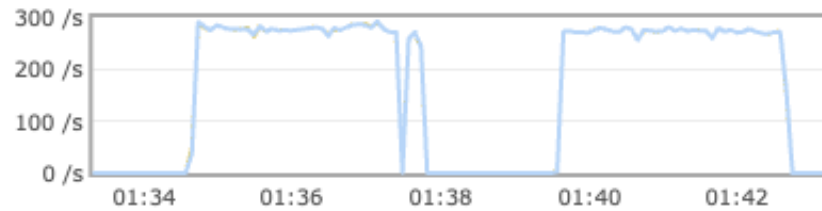
RMQ Metrix:

Message rates last ten minutes ?

Publish — 0.00/s
Deliver (manual ack) — 0.00/s
Deliver (auto ack) — 0.00/s

RMQ Metrix **single servlet vs load balanced servlet**:

Connection operations last ten minutes ?

Created	◼ 0.00/s
Closed	◼ 0.00/s

Channel operations last ten minutes ?

Created	◼ 0.00/s
Closed	◼ 0.00/s

Queue operations last ten minutes ?

Declared	◼ 0.00/s
Created	◼ 0.00/s
Deleted	◼ 0.00/s