**Testing plan**

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| Research title | A comprehensive investigation into similarity measures for adaptive learning in collaborative filtering: new similarity measures and comparative study. |
| Tested measures | Set *A* includes basic measures and set *B* includes variants of basic measures in set *A*. |
| New measures | There will have more new similarity measures and their sets are named *C* and *D*, *E* and *F*, etc. |
| Datasets | Movielens 100K, Film Trust, Epinion. |
| Cross folders | *k* = 5, 20, 50, 100 in which values *k* = 50 and *k* = 100 are manadatory. |
| Algorithms | Both User-based dynamic nearest neighbor (UDNN), and item-based dynamic nearest neighbor (IDNN) are considered. |
| Stages | There are four main stages:   * Stage 1: Testing *A* with *k* = 5, 20 over all datasets with UDNN, and IDNN. * Stage 2: Testing *B* with *k* = 5, 20 over all datasets with UDNN, and IDNN.   Consequently, there are two more essential stages:   * Stage 5: Testing *A* with *k* = 50, 100 over all datasets with UDNN, and IDNN. * Stage 6: Testing *B* with *k* = 50, 100 over all datasets with UDNN, and IDNN. |
| Resources | Cloud with 16 CPUs, LAP I5 with 8 GB RAM, and 100 GB RAM; LAP I7 with 32 GB RAM.  Both I5 and I7 can be used to run plan over small datasets, when cloud for movielens 100K and 1M. |
| Final stage | Run the plan over Movielens 1M. |