**Version** : 1.0

**Last modified on** : 14th March, 2013

**Reference file** : scenariov1.jpeg

**Description**

As per what the team had discussed earlier, the site building progression will be based on step-by-step basis. Though there was suggestion to make each site as the “master site” of its own so that each site can process the query, grab the data and integrate it by its own; to keep the first draft the easiest to get it done, the following rules should be followed:

* Site 1 is the master site. For every user requested will be:
  + First directed to the master site
  + Decompose the query
  + Process the query by retrieving the right data from the right site based on the fragmentation
  + Integrate the result
  + Send result back to the original calling sites

The main reason for designing this as the first architecture design draft is due to:

* Concept simplicity as it is very straight forward
* Less constraints to be considered
* Single focus on master site first

The limitation of this approach is that

* Still “centralized” in the sense that if master site is down, no processing can be done
* Require recovery mechanism

Question(s) need to be answered:

* Where is the preferred location to store the data/ fragmentation dictionary?

**Additional Note**

* The fragmentation section details can be found over 925901068\_1\_Project Description and Benchmark Test.doc which can be downloaded from learn.tsinghua.edu.cn