Spatial Data Querying and Mining Demo — User Interface

1. User Profiling
   1. Input: login.
   2. Output:
      1. user category/aspect interests.
         1. show 3 categories of user interests on user profile panel.
         2. show 3 aspects of each interested category.
      2. user personal regions.
         1. show 3 user’s personal regions (Gaussian distribution) on the map.
2. Diversified Region Query
   1. Input: category, region size.
   2. Output:
      1. show a rectangular region, which is the diversified region.
      2. show POIs of given category in this region.
3. POI Recommendation
   1. Input: some key words.
   2. Output:
      1. show top-k recommended POI in the recommendation list.
      2. show corresponding POI on the map.
4. POI Searching
   1. Input: specify a coordinate, given some key words.