Project Milestone #2

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Data Mining Recommender System

1) Universal Interface: It is for testing the system. The user can enter an input (i.e., task, data, and restrictions) on the left panel, and observe an output message (i.e., lists of data mining algorithms) on the right panel. After that, the user can give feedback (i.e., checklists whether each recommended algorithm is satisfcatory).

2) SIS Server: The SIS Server processes messages.

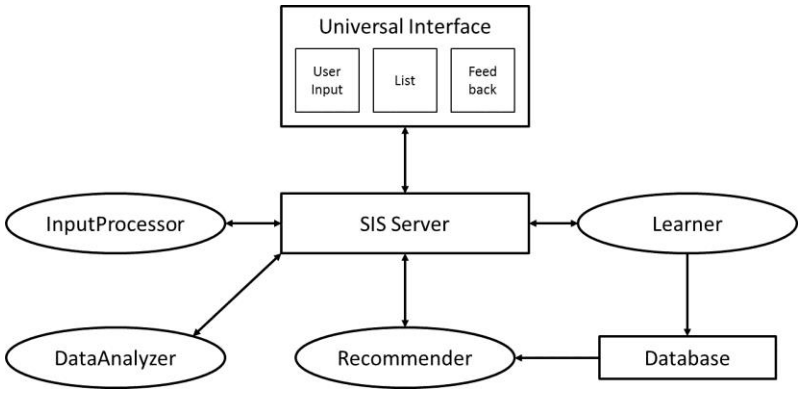
3) InputProcessor: It processes a user input. The input of this component is a user input and the output is a task, data, and restrictions.

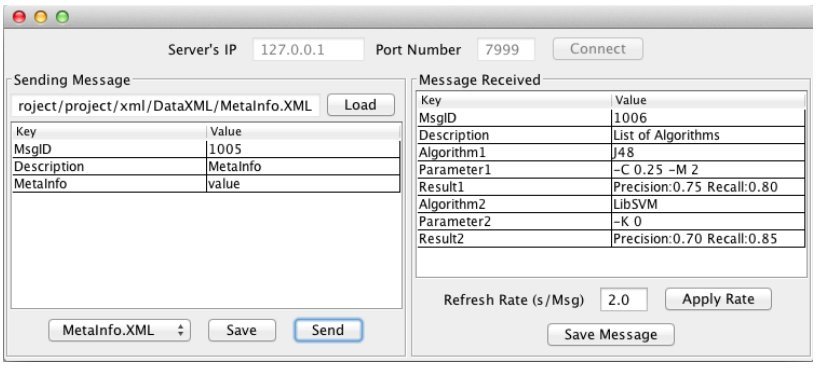
4) DataAnalyzer: It analyzes data to extract meta-information, such as data type, possible features, and so on. The input is data and the output is meta-information.

5) Recommender: It recommends data mining algorithms. The input is a task, restrictions, and meta-information and the output is a list of recommended data mining algorithms with the predefined configuration parameters and results.

6) Learner: It learns the new experience with its corresponding solution. The input is a feedback.

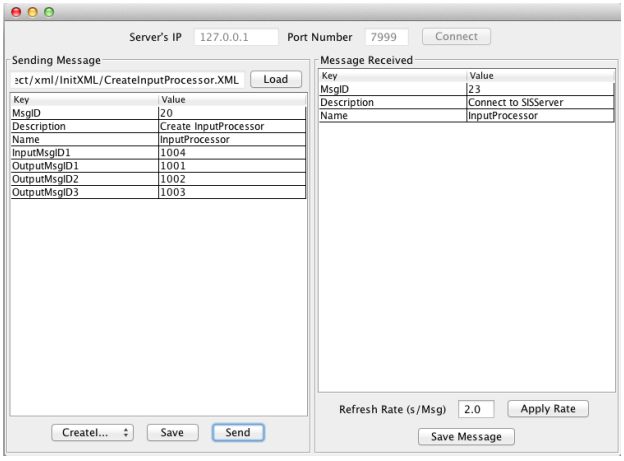
7) Database: It saves all data mining algorithms with parameter information and experiences.

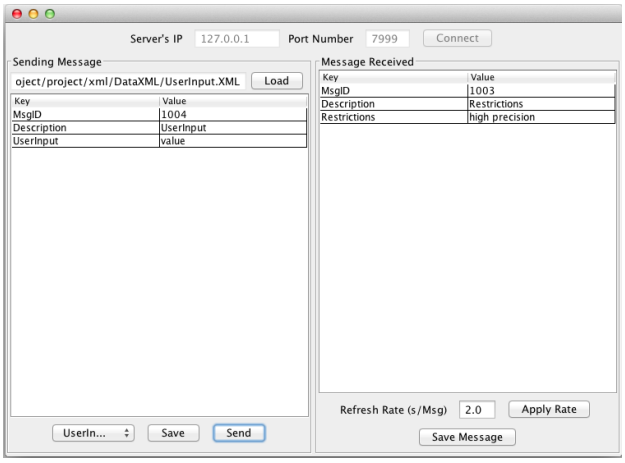


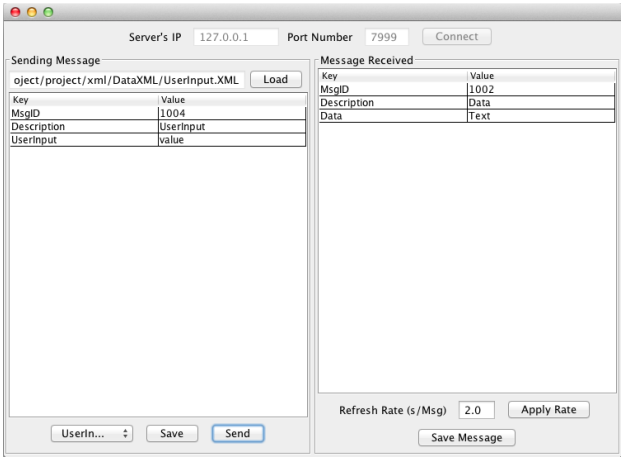


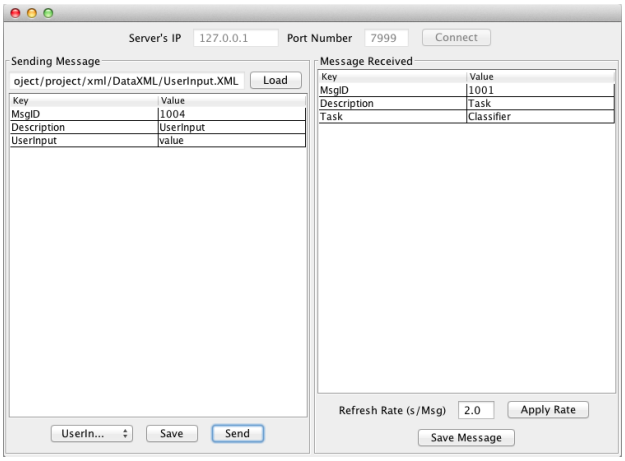
Current System Output

1) InputProcessor

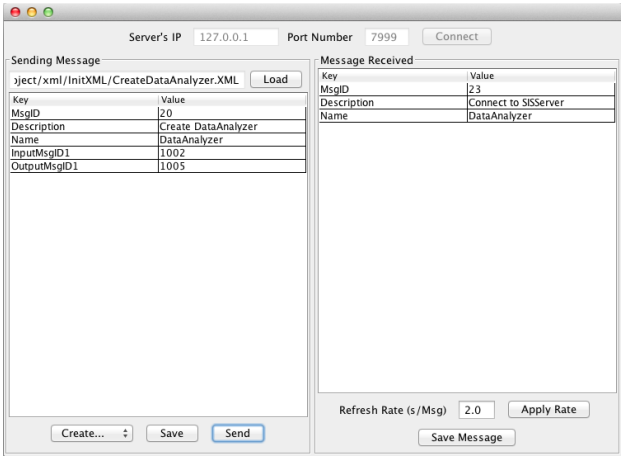


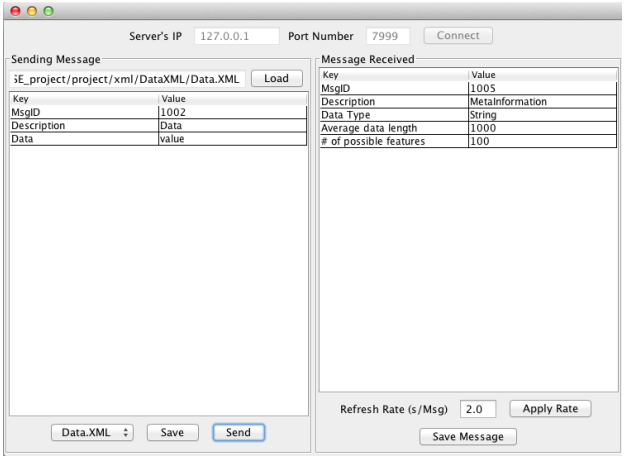




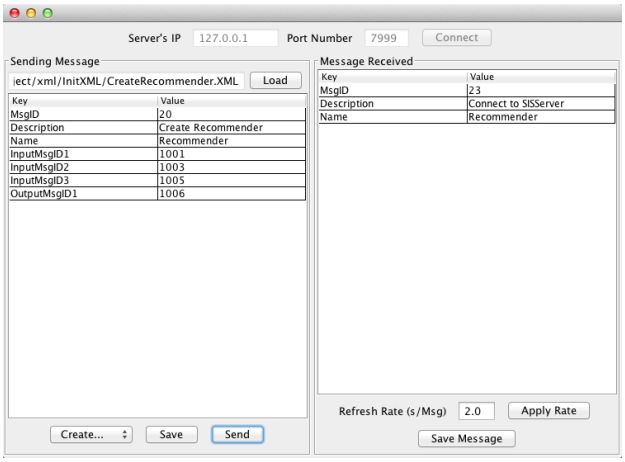


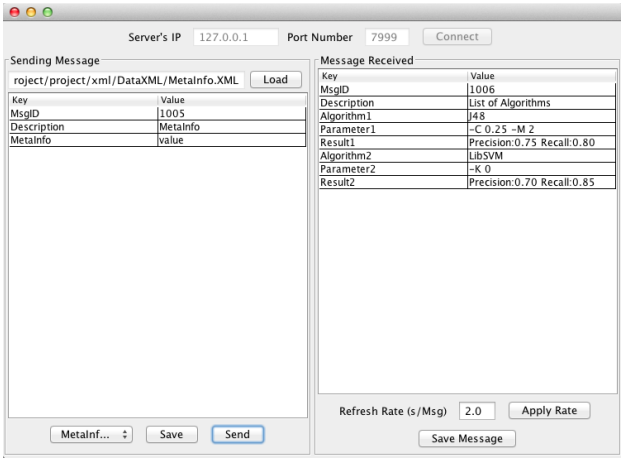
2) DataAnalyzer





3) Recommender





4) Learner