README

Weichen Wang

G00329371

The project is divided into job-server and dictionary-server two modules, Dictionary-server provides a lookup dictionary interface for the RMI server,which includes loading, processing, and registering RMI interfaces for local dictionary text. The main() method in ServiceSetup.java for the entrance to start the service. Dic.java tool is responsible for loading and processing dictionary. DictionaryService.java provide exposed interface.

job-server is a web project that includes clients and servlets responsible for calling the DictionaryService interface, which is started when the project starts InitListener.java Listener creates a static work queue INLIST and static callbacks stores Map OUTQUEUE and creates DictionaryRMIThread on, which is always in DictionaryRMIThread Retrieve the job-number in INLIST and call the DictionaryService RMI interface and put the return value into OUTQUEUE. The project index.jsp has ajax that requests LookUpServlet.java and CheckOutServlet.java. The request LookUpServlet is responsible for generating the job\_num and sending it to the request data Into INLIST and then return job\_num, index.jsp Take the return value job\_num will start a timer Poll every 10s Request CheckOutServlet Retrieve OUTQUEUE whether there is a return value and return, if not continue polling, otherwise turn off the timer The machine stops polling and displays the value.

**How to Run:**

1. Right Click ServiceSetup (dictionary-service) --> Run As --> Java Application

2. Right Click job-server project --> Run As --> Run on Server

**About dic.txt**：

When you need to add dictionary content to dic.txt, words and paraphrases need to be separated by ",". e.g. China,a coutry in East Asia.