

|  |   |
|--|---|
| dhbk.maas.httpconnect.....                   | 1 |
| dhbk.maas.hadoop.monitor.....                | 2 |
| dhbk.maas.hadoop.monitor.obj.....            | 4 |
| dhbk.maas.mahout.excute.....                 | 6 |
| dhbk.maas.utils.....                         | 7 |
| dhbk.maas.mahout.servlet.classification..... | 8 |
| dhbk.maas.mahout.servlet.clustering.....     | 8 |
| dhbk.maas.mahout.servlet.recommendation..... | 8 |

## [dhbk.maas.httpconnect](#)

### ### **Class HttpConnect**

\*\* Provide methods to connect and send request to host

#### **Constructor Summary :**

*HttpConnect ()* : Constructs a new http connect that is invisiable

#### **Method Summary :**

*public HttpResponse sendRequestGet (String url, Header[] headers)*

*throws ClientProtocolException, IOException*

- Send request GET
- Params :
  - String url : URL will receive request
  - Header[] headers : array header to add on request
- Return org.apache.http.HttpResponse

*public HttpResponse sendRequestPost (String url, Header[] headers, ArrayList<String[]> values)*

- Send request POST
- Params :
  - String url : URL will receive request
  - Header[] headers : array header to add on request
  - ArrayList<String[]> values : pairs params <key, value> will add on request

- Return org.apache.http.HttpResponse

[dhibk.maas.hadoop.monitor](http://dhibk.maas.hadoop.monitor)

\*\*\* Manage components on hadoop

### **Class HistoryServer**

\*\* Manage history server

### **Constructor Summary :**

*HistoryManage (String address)* : Constructs a new object manage history with address host is address and port will take value DEFAULT\_PORT

*HistoryManage (String address, String port)* : Constructs a new object manage history with address host is address and port is port

### **Method Summary :**

*public ArrayList<HistoryJob> getHistoryJobs () throws ClientProtocolException, IOException, JSONException*

- Get about list objects history job
- Return ArrayList<HistoryJob>

*public HistoryInfo getHistoryInfo () throws ClientProtocolException, IOException, JSONException*

- Get about information history
- Return ArrayList<HistoryInfo>

*public HistoryJob getHistoryJob () throws ClientProtocolException, IOException, JSONException*

- Get about object history job
- Return HistoryJob

*public ArrayList< HistoryJobConf> getHistoryJobConfig () throws ClientProtocolException, IOException, JSONException*

- Get about list object history job conf
- Return ArrayList< HistoryJobConf>

### **Field Summary :**

*private String url ; // URL connection*  
*private String address ; // address host name*  
*private String port ; // port connection, initialized DEFAULT\_PORT*

```
private static final String HISTORY_JOB_PATH;           // Default path
private static final String DEFAULT_PORT; // Default port
```

\* Attributes of job

```
public static final String HIS_SUBMITTIME ;
public static final String HIS_STATE;
public static final String HIS_USER;
public static final String HIS_REDUCESTOTAL;
public static final String HIS_MAPSCOMPLETED ;
public static final String HIS_STARTTIME;
public static final String HIS_ID;
public static final String HIS_NAME;
public static final String HIS_REDUCESCOMPLETED;
public static final String HIS_MAPSTOTAL;
public static final String HIS_QUEUE;
public static final String HIS_FINISHTIME;
```

### ### **Class ApplicationMaster**

\*\* Manage application on hadoop

### ### **Class NodeManage**

\*\* Manage node of hadoop

### ### **Class ResourceManage**

\*\* Manage resource (cluster)

[dhbk.maas.hadoop.monitor.obj](#)

\*\*\* Include many objects are managed on hadoop

### ### **Class HistoryJob**

\*\* manage object job on hadoop

### **Constructor Summary :**

```
public HistoryJob (String submitTime, String state, String user, String
reducesToal, String mapsCompleted, String startTime, String id,
```

*String name, String reducesCompleted, String mapsTotal, String queue, String finish) :*  
// Constructs a new object history job with informations attributes

### **Field Summary :**

|  |                 |
|--|-----------------|
| <i>public String submitTime;</i>       | time submit job |
| <i>public String state;</i>            | state job       |
| <i>public String user;</i>             | user call job   |
| <i>public String reducestotal;</i>     |                 |
| <i>public String mapscompleted;</i>    |                 |
| <i>public String starttime;</i>        |                 |
| <i>public String id;</i>               |                 |
| <i>public String name;</i>             |                 |
| <i>public String reducescompleted;</i> |                 |
| <i>public String mapstotal;</i>        |                 |
| <i>public String queue;</i>            |                 |
| <i>public String finishtime;</i>       |                 |

### **Class HistoryInfo**

### **Class HistoryJobAttempts**

### **Class HistoryJobConf**

### **Class HistoryJobCounters**

### **Class HistoryJobs**

### **Class HistoryJobTask**

### **Class HistoryJobTaskAttempt**

### **Class HistoryJobTaskAttemptCounters**

### **Class HistoryJobTaskAttempts**

### **Class HistoryJobTaskCounters**

### **Class HistoryJobTasks**

[dhibk.maas.mahout.excute](http://dhibk.maas.mahout.excute)

\*\*\* Send request to excute mahout 's jobs

### **Class Classification**

\*\* implementation machine learning Classification

### ### **Class Clustering**

\*\* implementation machine learning Clustering

### ### **Class Recommendations**

\*\* implementation machine learning Recommendations

#### **Constructor Summary :**

*Recommendations (String address)* : Constructs a new object manage history with address host is address and port will take value DEFAULT\_PORT

*Recommendations (String address, String port)*: Constructs a new object manage history with address host is address and port is port

#### **Method Summary :**

*public String getRecommender () throws ClientProtocolException, IOException*

- Get result algorithm Recommender of Mahout on Server
- Return String

#### **Field Summary :**

```
private String url ;           // URL connection
private String address ; // address host name
private String port ;         // port conection, initialized DEFAULT_PORT

private static final String HISTORY_JOB_PATH; // Default path
private static final String DEFAULT_PORT; // Default port
```

[dwbk.maas.uts](http://dwbk.maas.uts)

\*\*\* Provide more utility function

# MAAS SERVLET

[dhbk.maas.mahout.servlet.classification](#)

[dhbk.maas.mahout.servlet.clustering](#)

[dhbk.maas.mahout.servlet.recommendation](#)

\*\*\* Machine learning recommendation

### **Class Recommender**

extends *javax.servlet.http.HttpServlet*

\*\* receive request from user and excute algorithm recommender in mahout

**Method Summary :**

*doGet(HttpServletRequest request, HttpServletResponse response)*  
**throws** *ServletException, IOException*

// process request get from client

*doPost(HttpServletRequest request, HttpServletResponse response)*  
**throws** *ServletException, IOException*

// process request post from client