

utils

search_db

```
search_db(url)
```

Searches the Request table for the entry that corresponds to a given url and returns it.

Input:

```
- url (str): an url string.
```

Output:

```
- the Request table entry corresponding to this url.
```

result_from_db

```
result_from_db(req)
```

Returns the Keywords and the Label associated with a request if it was previously classified as Restricted. Otherwise, returns that the request was classified as Permitted, with no Keywords and Label associated.

Input:

```
- req (Request): a Request entry from Request database.
```

get_result

```
get_result(urls, force_calc, callback=None)
```

Returns a tuple containing the urls' labels, the keywords highly correlated to the website's content, the verdict provided by the classification, the process' status, and a boolean indicating if a socket connection should be established with the client.

Input:

```
- urls (list): list of urls strings to classify.  
- force_calc (boolean): indicates if the verdict from a previous classification
```

```
should be used (force_calc=False) or not (force_calc=True).  
- callback (str, None): a callback url.
```

update_or_create_kws

```
update_or_create_kws(words, req, db)
```

Creates or updates the keywords in the Keyword table.

Input:

```
- words (list): a list of strings to be inserted or modified in the Keyword table.  
- req (Request): a Request to be associated with the words.  
- db (database): The app's database.
```

call_cls

```
call_cls(urls, callback, kws, labels)
```

Provides the communication of the status and results between the classifier process, the main process and the client (when using via web interface).

Input:

```
- urls (list): a list of urls to be classified.  
- callback(str): the callback url.  
- kws (list): list of pre-defined keywords in the database.  
- labels (list): list of pre-defined labels in the database.
```