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GlideSystem Methods

1 message

Awad Bin-Jawed <awadbinjawed@gmail.com> To: Awad Bin-Jawed <awadbinjawed@gmail.com> Sun, Apr 14, 2019 at 3:02 PM

General

Method Summary	Description	
eventQueue(String, Object, String, String, String)	Queues an event for the event manager.	
getCurrentScopeName()	Gets the name of the current scope.	
getDisplayColumn(String)	Gets the display column for the table.	
getDisplayValueFor(String, String, String)	Gets the display value for a given field.	
getEscapedProperty(String, Object)	Gets the property and escapes it for XML parsing.	
getMessage(String, Object)	Retrieves translated messages to display in the UI. If the specified string exists in the database for the current language, then the translated message is returned. If the specified string does not exist for the current language, then the English version of the string is returned. If the string does not exist at all in the database, then the ID itself is returned.	
getMessageS(String, Object)	Retrieves translated messages to display in the UI and escapall ticks ('). If the specified string exists in the database for the current language, then the translated message is returned. If the specified string does not exist for the current language, the the English version of the string is returned. If the string does not exist at all in the database, then the ID itself is returned.	
getNodeValue(object, Integer)	Gets the node value for specified index.	
getNodeName(Object, Integer)	Returns the node name for specified index.	
getProperty(String, Object)	Gets the value of a Glide property.	
getScriptError(String)	Returns the script error found in the specified script, if there is one. The script is not executed by this function, only checked for syntax errors.	
getStyle(String, String, String)	Returns the style defined for the table, field and value.	
getXMLText (String, String)	Gets the xml text for the first node in the xml string that matches the path query.	
getXMLNodeList(String)	Constructs an Array of all the nodes and values in an XML document.	
log(String message, String source)	Logs a message to the system log and saves it to the syslog table.	

logError(String message, String source)	Logs an error to the system log and saves it to the syslog table.
logWarning(String message, String source)	Logs a warning to the system log and saves it to the syslog table.
nil(Object)	Queries an object and returns true if the object is null or contains an empty string.
print(String)	Writes a message to the system log. This method does not write the message to the syslog table unless debug has been activated.
tableExists(String)	Determines if a database table exists.
workflowFlush(Object)	Deletes all existing workflow operations for the specified GlideRecord.

Date and Time Functions

Method Summary	Description	
beginningOfLastMonth()	Gets the date and time for the beginning of last month in GMT.	
beginningOfLastWeek()	Gets the date and time for the beginning of last week in GMT.	
beginningOfNextWeek()	Gets the date and time for the beginning of next week in GMT.	
beginningOfNextMonth()	Gets the date and time for the beginning of next month in GMT.	
beginningOfNextYear()	Gets the date and time for the beginning of next year in GMT.	
beginningOfThisMonth()	Gets the date and time for the beginning of this month in GMT.	
beginningOfThisQuarter()	Gets the date and time for the beginning of this quarter in GMT.	
beginningOfThisWeek()	Gets the date and time for the beginning of this week in GMT.	
beginningOfThisYear()	Gets the date and time for the beginning of this week in GMT.	
beginningOfToday()	Gets the date and time for the beginning of today in GMT.	
beginningOfYesterday()	Gets the date and time for the beginning of yesterday in GMT.	
calDateDiff(String, String, boolean)	Calculate the difference between two dates using the default calendar. Note: Calendars are now legacy. If Schedules are being used, see Calculate Duration Given a Schedule.	
dateDiff(String, String, boolean)	Calculates the difference between two dates. The parameters must be in the user/system date time format.	
dateGenerate(String, String)	Generates a date and time for the specified date in GMT.	
daysAgo(int)	Gets a date and time for a certain number of days ago. The result is expressed in GMT.	
daysAgoEnd(int)	Gets a date and time for end of the day a certain number of days ago.The result is expressed in GMT.	
daysAgoStart(int)	Gets a date and time for beginning of the day a certain number of days ago. The result is expressed in GMT.	
endOfLastMonth()	Gets the date and time for the end of last month in GMT.	
endOfLastWeek()	Gets the date and time for the end of last week in GMT, in the format yyyy-mm-dd hh:mm:ss.	
endOfLastYear()	Gets the date and time for the end of last year in GMT.	
endOfNextMonth()	Gets the date and time for the end of next month in GMT.	
endOfNextWeek()	Gets the date and time for the end of next week in GMT.	
endOfNextYear()	Gets the date and time for the end of next year in GMT.	

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	isLastDayOfWeek(Object)	Checks whether the date is the last day of the week.

isLastDayOfYear(Object) Checks whether the date is the last day of the year.

User Session Functions

Method Summary	Description
addErrorMessage(Object)	Adds an error message for the current session. Session error messages are shown at the top of the form. Use getErrorMessages() to retrieve the list of error messages that are being shown.
addInfoMessage(Object)	Adds an info message for the current session. Session info messages are shown at the top of the form below any error messages. Use getInfoMessages() to retrieve the list of info messages being shown.
addMessage(String, Object)	Adds a message for the current session. Can be called using getMessages(String).
flushMessages()	Clears session messages saved using addErrorMessage(Object) or addInfoMessage(Object). Session messages are shown at the top of the form. In client side scripts use g_form.clearMessages() to clear all session messages.
getErrorMessages()	Gets the list of error messages for the session that were added by addErrorMessage(Object).
getImpersonatingUserDisplayNam e()	Returns the display name of the impersonating user.
getImpersonatingUserName()	Returns the name of the impersonating user or null if not impersonating.
getInfoMessages()	Gets the list of info messages for the session that were added via addInfoMessage(Object.
getMessages(String)	Gets the list of messages of the specified type for the session that were added via addMessage(String, Object).
getPreference(String, Object)	Gets a user preference.
getSession()	Returns a GlideSession object.
getSessionID()	Accesses the GlideSession Session ID.
getTrivialMessages()	Gets the list of error messages for the session that were added with the trivial flag.
getUser()	Returns a reference to the User object for the current user. More information is available here.
getUserDisplayName()	Returns the name field of the current user (e.g. John Smith, as opposed to smith).
getUserID()	Returns the sys_id of the current user.
getUserName()	Returns the username of the current user (for example, jsmith).
getUserNameByUserID(String)	Gets the username based on a user ID.
hasRole(String)	Determines if the current user has the specified role.
hasRoleInGroup(Object, Object)	Determines if the current user has the specified role within a specified group.
isInteractive()	Checks if the current session is interactive.
	1

setRedirect(Object)	Sets the redirect URI for this transaction. This determines the next page the user will see.
setReturn(Object)	Sets the return URI for this transaction. This determines what page the user will be directed to when they return from the next form.
userID()	Returns the sys_id of the user associated with this session. A shortcut for the more proper getUserID().

General

eventQueue(String, Object, String, String, String)

Queues an event for the event manager.

Input Fields

Parameters:

- · Name of the event being queued.
- A GlideRecord object, such as "current".
- · An optional parameter, saved with the instance if specified.
- A second optional parameter, saved with the instance if specified.
- · An event queue to add the event to.

Example

<source lang="javascript"> if (current.operation() != 'insert' && current.comments.changes()) {

```
{\tt gs.eventQueue('incident.commented', current, gs.getUserID(), gs.getUserName());}\\
```

} </source>

getCurrentScopeName()

Gets the name of the current scope.

Input Fields

Parameters:

None

Example

<source lang="javascript"> gs.getCurrentScopeName(); </source>

getDisplayColumn(String)

Gets the display column for the table.

Input Fields

Parameters: name of table from which to get the display column name.

Output Fields

Returns: name of the display column for the table.

Example

<source lang="javascript"> // Return the sys id value for a given table and its display value function GetIDValue(table, displayValue) {

```
var rec = new GlideRecord(table);
var dn = gs.getDisplayColumn(table);
if (rec.get(dn, displayValue))
    return rec.sys id;
else
    return null;
```

} </source>

getDisplayValueFor(String, String, String)

Gets the display value for a specified field on a record.

Input Fields

Parameters:

- String name of table for the record
- String the sysid for the record to get the display value from
- String the field to get a display value from

Output Fields

Returns: name of the display value for the field's value.

getEscapedProperty(String, Object)

Gets the property and escapes it for XML parsing.

Input Fields

Parameters:

- String key for the property whose value should be returned
- Alternate object to return if the property is not found.

Output Fields

Returns: the property as a string, or the alternate object specified above.

getMessage(String, Object)

Retrieves translated messages to display in the UI. If the specified string exists in the database for the current language, then the translated message is returned. If the specified string does not exist for the current language, then the English version of the string is returned. If the string does not exist at all in the database, then the ID itself is returned.

Note: if the UI message has a tick ('), there may be issues with the message in the script; to escape the ticks ('), use getMessageS(String, Object).

Input Fields

Parameters:

ID of message

 (Optional) A list of strings or other values defined by java.text.MessageFormat , which allows you to produce language-neutral messages for display to users.

Output Fields

Returns: the UI message as a string.

Examples

<source lang="javascript"> var my message = '\${gs.getMessage("This is a message.")}'; alert(my message); </source>

Using the optional parameter as in: <source lang="javascript"> gs.getMessage(""{0}" is not a Client Callable Script Include', 'BAR'); </source>

Returns: "BAR" is not a Client Callable Script Include

getMessageS(String, Object)

Retrieves translated messages to display in the UI and escapes all ticks ('). If the specified string exists in the database for the current language, then the translated message is returned. If the specified string does not exist for the current language, then the English version of the string is returned. If the string does not exist at all in the database, then the ID itself is returned. Useful if you are inserting into a JavaScript expression from Jelly.

For instance, the following code snippet will fail if the returned snippet has a tick ('):

<source lang="javascript"> var my message = '\${gs.getMessage("I love France")}'; alert(my message); </source>

The solution is to use a snippet like the following:

<source lang="javascript">var my message = '\${gs.getMessageS("I love France")}'; alert(my message); </source>

Input Fields

Parameters:

- ID of message
- Optional message arguments.

Output Fields

Returns: the message as a string, with the ticks escaped.

Example

<source lang="javascript">var my_message = '\${gs.getMessageS("I love France")}'; alert(my_message); </source>

getProperty(String, Object)

Gets the value of a Glide property. If the property is not found, return an alternate value. Use getEscapedProperty(String, Object) to escape the property.

Input Fields

Parameters:

- String key for the property whose value should be returned.
- Alternate object to return if the property is not found.

Output Fields

Returns: (String) the value of the Glide property, or the alternate object defined above.

Example

<source lang="javascript">

```
//Check for attachments and add link if there are any
var attachment_link = ;
var rec = new GlideRecord('sc_req_item');
rec.addQuery('sys id', current.request item);
rec.query();
if(rec.next()){
  if(rec.hasAttachments()){
    attachment link = gs.getProperty('glide.servlet.uri') + rec.getLink();
  }
}
```

</source>

getScriptError(String)

Returns the script error found in the specified script, if there is one. The script is not executed by this function, only checked for syntax errors.

Input Fields

Parameters: string script to check for errors.

Output Fields

Returns: the script error message or, if none, then null.

getStyle(String, String, String)

Returns the style defined for the table, field and value.

Input Fields

Parameters:

- Table name
- Field name
- Field value

Output Fields

Returns the style as a string.

log(String message, String source)

Logs a message to the system log and saves it to the syslog table.

Input Fields

Parameters:

- String message message to log, for the log's Message field.
- String source (optional) the source of the message, for the log's Source field.

Example

<source lang="javascript"> var count = new GlideAggregate('incident'); count.addQuery('active', 'true'); count.addAggregate('COUNT', 'category'); count.query(); while (count.next()) {

```
var category = count.category;
 var categoryCount = count.getAggregate('COUNT', 'category');
 gs.log("The are currently " + categoryCount + " incidents with a category of " +
category, "Incident Counter");
```

} </source>

logError(String message, String source)

Logs an error to the system log and saves it to the syslog table.

Input Fields

Parameters:

- String message message to log, for the log's Message field.
- String source (optional) the source of the message, for the log's Source field.

logWarning(String message, String source)

Logs a warning to the system log and saves it to the syslog table.

Input Fields

Parameters:

- String message message to log, for the log's Message field.
- **String source** (optional) the source of the message, for the log's **Source** field.

nil(Object)

Queries an object and returns **true** if the object is null or contains an empty string.

Input Fields

Parameters: name of an object

Output Fields

Returns: true if null or empty string; otherwise, returns false

Example

<source lang="javascript"> if ((!current.u_date1.nil()) && (!current.u_date2.nil())) {

```
var start = current.u_date1.getGlideObject().getNumericValue();
var end = current.u_date2.getGlideObject().getNumericValue();
if (start > end) {
  gs.addInfoMessage('start must be before end');
 current.u date1.setError('start must be before end');
  current.setAbortAction(true);
}
```

} </source>

print(String)

Writes a message to the system log. This method does not write the message to the syslog table unless debug has been activated.

Input Fields

Parameters: message to log

Example

<source lang="javascript"> var rec = new GlideRecord('incident'); rec.addQuery('active',false); rec.query(); while (rec.next()) {

```
gs.print('Inactive incident ' + rec.number + ' deleted');
rec.deleteRecord();
```

} </source>

tableExists(String)

Determines if a database table exists.

Input Fields

Parameters: name of table to check for existence

Output Fields

Returns: true if table exists or false is not found

workflowFlush(Object)

Deletes all existing workflow operations for the specified GlideRecord.

Input Fields

Parameters: the GlideRecord to flush the workflow for

Output Fields

Returns: void

Date/Time

beginningOfLastMonth()

Gets the date and time for the beginning of last month in GMT.

Output Fields

Returns: the GMT beginning of last month, in the format yyyy-mm-dd hh:mm:ss.

beginningOfLastWeek()

Gets the date and time for the beginning of last week in GMT.

Output Fields

Returns: the GMT beginning of last week, in the format yyyy-mm-dd hh:mm:ss.

beginningOfNextWeek()

Gets the date and time for the beginning of next week in GMT.

Output Fields

Returns: the GMT beginning of next week, in the format yyyy-mm-dd hh:mm:ss.

beginningOfNextMonth()

Gets the date and time for the beginning of next month in GMT.

Output Fields

Returns: the GMT beginning of next month, in the format yyyy-mm-dd hh:mm:ss.

beginningOfNextYear()

Gets the date and time for the beginning of next year in GMT.

Output Fields

Returns: the GMT beginning of next year, in the format yyyy-mm-dd hh:mm:ss.

beginningOfThisMonth()

Gets the date and time for the beginning of this month in GMT.

Output Fields

Returns: the GMT beginning of this month, in the format yyyy-mm-dd hh:mm:ss.

beginningOfThisQuarter()

Gets the date and time for the beginning of this quarter in GMT.

Output Fields

Returns: the GMT beginning of this quarter, in the format yyyy-mm-dd hh:mm:ss.

beginningOfThisWeek()

Gets the date and time for the beginning of this week in GMT.

Output Fields

Returns: the GMT beginning of this week, in the format yyyy-mm-dd hh:mm:ss.

beginningOfThisYear()

Gets the date and time for the beginning of this week in GMT.

Output Fields

Returns: the GMT beginning of this week, in the format yyyy-mm-dd hh:mm:ss.

beginningOfToday()

Gets the date and time for the beginning of today in GMT.

Output Fields

Returns: the GMT beginning of today, in the format yyyy-mm-dd hh:mm:ss.

beginningOfYesterday()

Gets the date and time for the beginning of yesterday in GMT.

Output Fields

Returns: the GMT beginning of yesterday, in the format yyyy-mm-dd hh:mm:ss.

calDateDiff(String, String, boolean)

Calculate the difference between two dates using the default calendar. **Note:** Calendars are now legacy. If Schedules are being used, see Calculate Duration Given a Schedule.

Input Fields

Parameters:

- startDate a starting date to compare, in the current user's date format
- endDate an ending date to compare, in the current user's date format
- **boolean numericValue** if true, the return will be formatted in number of seconds; if false, the return will be formatted ddd hh:mm:ss.

Output Fields

Returns: if the numericValue boolean parameter is true, returns the difference between the two dates as an integer number of seconds; if false, returns the difference between the two dates in the format ddd hh:mm:ss.

dateDiff(String, String, boolean)

Calculates the difference between two dates. This method expects the earlier date as the first parameter and the later date as the second parameter; otherwise, the method returns the difference as a negative value. **Note:** Use getDisplayValue() to convert the strings to the expected format.

Input Fields

Parameters:

- startDate a starting date to compare, in the current user's date format.
- endDate an ending date to compare, in the current user's date format.
- boolean bnumericValue true to return difference in number of seconds as a string, false to return difference in the format ddd hh:mm:ss.

Output Fields

Returns: if boolean bnumericValue is true, the difference in number of seconds; if false, the difference in the format ddd hh:mm:ss.

Example

For more examples, see Setting the Duration Field Value.

<source lang="javascript"> // Given two date/times as DateTime objects // Set the values this way to ensure a
consistent input time var date1 = new GlideDateTime(); var date2 = new GlideDateTime();
date1.setDisplayValueInternal('2014-01-01 12:00:00'); date2.setDisplayValueInternal('2014-01-01 13:00:00');

// Determine the difference as number of seconds (returns a string) // Use getDisplayValue() to convert the string to the format expected by dateDiff() var diffSeconds = gs.dateDiff(date1.getDisplayValue(), date2.getDisplayValue(), true);

// JavaScript will coerce diffSeconds from a string to a number // since diffSeconds is being compared to a number var msg = (diffSeconds <= 0)?' is on or after':' is before'; gs.print(date1.getDisplayValue() + msg + date2.getDisplayValue()) </source>

dateGenerate(String, String)

Generates a date and time for the specified date in GMT.

Input Fields

Parameters:

- Date format: yyyy-mm-dd
- Range start, end, or a time in the 24 hour format hh:mm:ss.

Output Fields

Returns: a date and time in the format yyyy-mm-dd hh:mm:ss. If range is start, the returned value is yyyy-mmdd 00:00:00; If range is **end** the return value is yyyy-mm-dd 23:59:59.

daysAgo(int)

Gets a date and time for a certain number of days ago.

Input Fields

Parameters: An integer number of days ago.

Output Fields

Returns: The (GMT) beginning of the days that was the specified number of days ago, in the format yyyy-mmdd hh:mm:ss.

Example

<source lang="javascript"> function contractNoticeDue() {

```
var gr = new GlideRecord("contract");
   gr.addQuery("u contract status", "Active");
  gr.query();
  while (gr.next()) {
       if ((gr.u_termination_date <= gs.daysAgo(-90)) && (gr.u_contract_duration ==
"Long")) {
           gr.u_contract_status = "In review";
       else if ((gr.u_termination_date <= gs.daysAgo(-50)) && (gr.u_contract_duration
== "Medium")) {
           gr.u contract status = "In review";
       else if ((gr.u termination date <= gs.daysAgo(-10)) && (gr.u contract duration
== "Short")) {
           gr.u contract status = "In review";
   }
   gr.update();
```

} </source>

daysAgoEnd(int)

Gets a date and time for end of the day a certain number of days ago.

Input Fields

Parameters: An integer number of days ago.

Output Fields

Returns: The (GMT) end of the day that was the specified number of days ago, in the format yyyy-mm-dd

hh:mm:ss.

daysAgoStart(int)

Gets a date and time for beginning of the day a certain number of days ago.

Input Fields

Parameters: An integer number of days ago.

Output Fields

Returns: The (GMT) start of the day that was the specified number of days ago, in the format **yyyy-mm-dd** hh:mm:ss.

Example

<source lang="javascript"> var gr = new GlideRecord('sysapproval_approver'); gr.addQuery('state', 'requested');
gr.addQuery('sys_updated_on', '<', gs.daysAgoStart(5)); gr.query(); </source>

endOfLastMonth()

Gets the date and time for the end of last month in GMT.

Output Fields

Returns: the GMT end of last month, in the format yyyy-mm-dd hh:mm:ss.

endOfLastWeek()

Gets the date and time for the end of last week in GMT, in the format yyyy-mm-dd hh:mm:ss.

Output Fields

Returns: the GMT end of last week, in the format yyyy-mm-dd hh:mm:ss.

endOfLastYear()

Gets the date and time for the end of last year in GMT.

Output Fields

Returns: the GMT end of last year, in the format yyyy-mm-dd hh:mm:ss.

endOfNextMonth()

Gets the date and time for the end of next month in GMT.

Output Fields

Returns: the GMT end of next month, in the format yyyy-mm-dd hh:mm:ss.

endOfNextWeek()

Gets the date and time for the end of next week in GMT.

Output Fields

Returns: the GMT end of next week, in the format yyyy-mm-dd hh:mm:ss.

endOfNextYear()

Gets the date and time for the end of next year in GMT.

Output Fields

Returns: the GMT end of next year, in the format yyyy-mm-dd hh:mm:ss.

endOfThisMonth()

Gets the date and time for the end of this month in GMT.

Output Fields

Returns: the GMT end of this month, in the format (yyyy-mm-dd huh:mm:ss)

endOfThisQuarter()

Gets the date and time for the end of this quarter in GMT.

Output Fields

Returns: the GMT end of this quarter, in the format yyyy-mm-dd hh:mm:ss.

endOfThisWeek()

Gets the date and time for the beginning of this week in GMT.

Output Fields

Returns: the GMT beginning of this week, in the format yyyy-mm-dd hh:mm:ss.

endOfThisYear()

Gets the date and time for the end of this year in GMT.

Output Fields

Returns: the GMT end of this year, in the format yyyy-mm-dd hh:mm:ss.

endOfToday()

Gets the date and time for the end of today in GMT.

Output Fields

Returns: the GMT end of today, in the format yyyy-mm-dd hh:mm:ss.

endOfYesterday()

Gets the date and time for the end of yesterday in GMT.

Output Fields

Returns: the GMT end of yesterday, in the format (yyyy-mm-dd huh:mm:ss).

hoursAgo(int)

Gets a date and time for a certain number of hours ago.

Input Fields

Parameters: An integer number of hours ago.

Output Fields

Returns: The (GMT) time that was the specified number of hours ago, in the format yyyy-mm-dd hh:mm:ss.

Example

<source lang="javascript"> if (current.operation() == 'insert') {

```
// If no due date was specified, calculate a default
if (current.due_date == ) {
if (current.urgency == '1') {
 // Set due date to 4 hours ahead of current time
 current.due date = gs.hoursAgo(-4);
 }
 if (current.urgency == '2') {
 // Set due date to 2 days ahead of current time
 current.due_date = gs.daysAgo(-2);
 }
 if (current.urgency == '3') {
 // Set due date to 7 days ahead of current time
 current.due_date = gs.daysAgo(-7);
 }
}
```

} </source>

hoursAgoEnd(int)

Gets a date and time for the end of the hour a certain number of hours ago.

Input Fields

Parameters: An integer number of hours ago.

Output Fields

Returns: The (GMT) end of the hour that was the specified number of hours ago, in the format yyyy-mm-dd hh:mm:ss.

hoursAgoStart(int)

Gets a date and time for the start of the hour a certain number of hours ago.

Input Fields

Parameters: An integer number of hours ago.

Output Fields

Returns: The (GMT) start of the hour that was the specified number of hours ago, in the format yyyy-mm-dd hh:mm:ss.

lastWeek()

Date and time one week ago in GMT.

Output Fields

Returns: the date and time one week ago, in the format yyyy-mm-dd hh:mm:ss.

minutesAgo(int)

Gets a date and time for a certain number of minutes ago.

Input Fields

Parameters: An integer number of minutes ago.

Output Fields

Returns: The (GMT) time that was the specified number of minutes ago, in the format yyyy-mm-dd hh:mm:ss.

Example

<source lang="javascript"> // // Check to see if the user has failed to login too many times // when the limit is reached, lock the user out of the system //

```
//Check failed logins in the last 15 minutes
var gr = new GlideRecord('sysevent');
 gr.addQuery('name', 'login.failed');
 gr.addQuery('parm1', event.parm1.toString());
 gr.addQuery('sys_created_on','>=', gs.minutesAgo(15));
 gr.query();
 var rowCount = gr.getRowCount();
 if(rowCount >= 5){
     var gr = new GlideRecord("sys user");
     gr.addQuery("user_name", event.parm1.toString());
     gr.query();
     if (gr.next()) {
          gr.locked out = true;
          gr.update();
          gs.log("User " + event.parm1 + " locked out due to too many invalid login
attempts");
```

```
}
}
```

</source>

minutesAgoEnd(int)

Gets a date and time for the end of the minute a certain number of minutes ago.

Input Fields

Parameters: An integer number of minutes ago.

Output Fields

Returns: The (GMT) end of the minute that was the specified number of minutes ago, in the format **yyyy-mm-dd hh:mm:ss.**

minutesAgoStart(int)

Gets a date and time for the start of the minute a certain number of minutes ago.

Input Fields

Parameters: An integer number of minutes ago.

Output Fields

Returns: The (GMT) start of the minute that was the specified number of minutes ago, in the format **yyyy-mm-dd hh:mm:ss.**

monthsAgo(int)

Gets a date and time for a certain number of months ago.

Input Fields

Parameters: An integer number of months ago.

Output Fields

Returns: A value (GMT) on the current (today's) date of the specified month, in the format **yyyy-mm-dd hh:mm:ss.**

monthsAgoEnd(int)

Gets a date and time for the last day of the month a certain number of months ago.

Input Fields

Parameters: An integer number of months ago.

Output Fields

Returns: The (GMT) end of the month that was the specified number of months ago, in the format **yyyy-mm-dd hh:mm:ss.**

monthsAgoStart(int)

Gets a date and time for the start of the minute a certain number of minutes ago.

Input Fields

Parameters: An integer number of minutes ago.

Output Fields

Returns: The (GMT) start of the minute that was the specified number of minutes ago, in the format yyyy-mmdd hh:mm:ss.

now()

Gets the current date using GMT.

Output Fields

Returns: The current date in the user defined format, according to GMT.

Example

<source lang="javascript"> // When the user password changes then set the u password last reset field // to now so we know when to force another update

var gr = new GlideRecord("sys_user"); if (gr.get(event.parm1.toString())) {

```
// Do something based on the Password Changing
gs.log("The user password changed so do something else...");
gr.u password last reset = gs.now();
gr.update();
```

}</source>

nowNoTZ()

Gets the current date and time in UTC format.

Output Fields

Returns: the current UTC date time.

Example

<source lang="javascript"> // When the user password changes then set the u password last reset field // to now so we know when to force another update

```
var gr = new GlideRecord("sys user"); if (gr.get(event.parm1.toString())) {
```

```
// Do something based on the Password Changing
gs.log("The user password changed so do something else...");
gr.u password last reset = gs.nowNoTZ();
gr.update();
```

}</source>

nowDateTime()

Gets the current date and time in the user-defined format.

Output Fields

Returns: The current date and time in the user-defined format.

Example

The following script sets the field **u_target_date** to the current date and time:

<source lang="javascript"> current.u target date = gs.nowDateTime(); </source>

After the script is run, the u_target_date field will hold the date and time of the moment the script is run, in the system format.

Example 2

When setting a variable in a workflow script to the current date and time, use the setDisplayValue method. The following script sets the workflow variable end_date to the current date and time:

<source lang="javascript"> current.variables.end date.setDisplayValue(gs.nowDateTime()); </source>

After the script is run, the end_date field will hold the date and time of the moment the script is run, in the system format.

quartersAgo(int)

Gets a date and time for a certain number of quarters ago.

Input Fields

Parameters: An integer number of quarters ago.

Output Fields

Returns: The (GMT) beginning of the quarter that was the specified number of quarters ago, in the format yyyymm-dd hh:mm:ss.

quartersAgoEnd(int)

Gets a date and time for the last day of the quarter a certain number of quarters ago.

Input Fields

Parameters: An integer number of quarters ago.

Output Fields

Returns: The (GMT) end of the quarter that was the specified number of quarters ago, in the format **yyyy-mm**dd hh:mm:ss.

quartersAgoStart(int)

Gets a date and time for the first day of the quarter a certain number of quarters ago.

Input Fields

Parameters: An integer number of quarters ago.

Output Fields

Returns: The (GMT) end of the month that was the specified number of quarters ago, in the format yyyy-mm-dd hh:mm:ss.

yearsAgo(int)

Gets a date and time for a certain number of years ago.

Input Fields

Parameters: An integer number of years ago.

Output Fields

Returns: The (GMT) beginning of the years that was the specified number of years ago, in the format **yyyy-mm**dd hh:mm:ss.

yesterday()

Gets yesterday's time.

Output Fields

Returns: The (GMT) for 24 hours ago, in the format yyyy-mm-dd hh:mm:ss.

isFirstDayOfMonth(Object)

Checks whether the date is the first day of the month.

Input Fields

Parameters: date object.

Output Fields

Returns: true if date is the first day of the month, false if it is not.

isFirstDayOfWeek(Object)

Checks whether the date is the first day of the week. This uses the ISO standard of Monday being the first day of the week.

Input Fields

Parameters: date object.

Output Fields

Returns: true if date is the first day of the week, false if it is not.

isFirstDayOfYear(Object)

Checks whether the date is the first day of the year.

Input Fields

Parameters: date object.

Output Fields

Returns: true if date is the first day of the year, false if it is not.

isLastDayOfMonth(Object)

Checks whether the date is the last day of the month.

Input Fields

Parameters: date object.

Output Fields

Returns: true if date is the last day of the month, false if it is not. This uses the ISO standard of Sunday being the last day of the week.

isLastDayOfWeek(Object)

Checks whether the date is the last day of the week.

Input Fields

Parameters: date object.

Output Fields

Returns: true if date is the last day of the week, false if it is not.

isLastDayOfYear(Object)

Checks whether the date is the last day of the year.

Input Fields

Parameters: date object.

Output Fields

Returns: true if date is the last day of the year, false if it is not.

User Session

addErrorMessage(Object)

Adds an error message for the current session. Use getErrorMessages() to retrieve a list of error messages currently being shown.

Input Fields

Parameters: an error object.

Example

<source lang="javascript">

```
gs.include("PrototypeServer");
 var ValidatePasswordStronger = Class.create();
ValidatePasswordStronger.prototype = {
      process : function() {
         var user_password = request.getParameter("user_password");
         var min len = 8;
         var rules = "Password must be at least " + min len +
            " characters long and contain a digit, an uppercase letter, and a lowercase
letter.";
```

```
if (user_password.length() < min_len) {</pre>
           gs.addErrorMessage("TOO SHORT: " + rules);
           return false;
        }
        var digit_pattern = new RegExp("[0-9]", "g");
        if (!digit_pattern.test(user_password)) {
           gs.addErrorMessage("DIGIT MISSING: " + rules);
           return false;
        }
        var upper_pattern = new RegExp("[A-Z]", "g");
        if (!upper_pattern.test(user_password)) {
           gs.addErrorMessage("UPPERCASE MISSING: " + rules);
           return false;
        }
        var lower_pattern = new RegExp("[a-z]", "g");
        if (!lower_pattern.test(user_password)) {
           gs.addErrorMessage("LOWERCASE MISSING: " + rules);
           return false;
        return true; // password is OK
     }
}
```

</source>

addInfoMessage(Object)

Adds an info message for the current session. Use getInfoMessages() to retrieve the list of info messages being shown. Note: This method is not supported for asynchronous business rules and cannot be used within transform scripts.

Input Fields

Parameters: an info message object.

Example

<source lang="javascript"> if ((!current.u date1.nil()) && (!current.u date2.nil())) {

```
var start = current.u_date1.getGlideObject().getNumericValue();
var end = current.u date2.getGlideObject().getNumericValue();
if (start > end) {
  gs.addInfoMessage('start must be before end');
  current.u_date1.setError('start must be before end');
  current.setAbortAction(true);
}
```

} </source>

addMessage(String, Object)

Adds a message for the current session. Can be called using getMessages(String).

Input Fields

Parameters:

- String type of message
- Message to store

Example

<source lang="javascript"> gs.include("FormInfoHeader"); var fi = new FormInfoHeader(); var s = 'An incident ' + current.number + ' has been opened for your request.

- ': s += 'The IT department will contact you when the password is reset or for further information.
- '; //s += 'You can track status from the Home Page
- '; fi.addMessage(s); producer.redirect = 'home.do?sysparm view=ess'; </source>

flushMessages()

Clears session messages saved using addErrorMessage(Object) or addInfoMessage(Object). Session messages are shown at the top of the form. In client side scripts use g form.clearMessages() to remove session messages.

Output Fields

Returns: void

Example

<source lang="javascript"> gs.flushMessages(); </source>

getErrorMessages()

Gets the list of error messages for the session that were added by addErrorMessage(Object)

Output Fields

Returns: list of error messages.

getImpersonatingUserDisplayName()

Returns the display name of the impersonating user.

Output Fields

Returns: display name of impersonating user.

getImpersonatingUserName()

Returns the name of the impersonating user or null if not impersonating

Output Fields

Returns: name of the impersonating user.

getInfoMessages()

Gets the list of info messages for the session that were added via addInfoMessage(Object).

Output Fields

Returns: the list of info messages.

getMessages(String)

Gets the list of messages of the specified type for the session that were added via addMessage(String, Object).

Input Fields

Parameters: string type of message.

Output Fields

Returns: list of messages of string type.

getNodeValue(object, Integer)

Gets the node value for specified index.

Input Fields

Parameters

- Object to examine.
- Integer for the index to get a node value from.

Output Fields

Returns: the node's value.

getNodeName(Object, Integer)

Returns the node name for specified index.

Input Fields

Parameters

- Object to examine.
- Integer for the index to get a node value from.

Output Fields

Returns: the node's name.

getPreference(String, Object)

Gets a user preference.

Input Fields

Parameters:

- · String key for the preference.
- Object default value

Output Fields

Returns: a string value for the preference. If null, uses the default value specified above.

getSession()

Returns a GlideSession object. See the GlideSession APIs wiki page for methods to use with the GlideSession object.

Output Fields

Returns: a GlideSession object for the current session.

Example

<source lang="javascript"> var session = gs.getSession(); </source>

getSessionID()

Accesses the GlideSession Session ID.

Output Fields

Returns: the Session ID.

getTrivialMessages()

Gets the list of error messages for the session that were added with the trivial flag.

Output Fields

Returns: the list of messages.

getUser()

Returns a reference to the User object for the current user. More information is available here.

Output Fields

Returns: a reference to a User object.

Example

<source lang="javascript"> var myUserObject = gs.getUser() </source>

getUserDisplayName()

Returns the name field of the current user (e.g. John Smith, as opposed to smith).

Output Fields

Returns: the name field of the current user (e.g. John Smith, as opposed to jsmith).

Example

<source lang="javascript">

```
<g2:evaluate var="jvar_current_user" expression="gs.getUserDisplayName()"/>
$[JS:jvar_current_user]
```

</source>

getUserID()

Returns the sys_id of the current user.

Output Fields

Returns: the sys_id of the current user.

Example

<source lang="javascript"> if (current.operation() != 'insert' && current.comments.changes()) {

```
gs.eventQueue("incident.commented", current, gs.getUserID(), gs.getUserName());
```

} </source>

getUserName()

Returns the username of the current user (e.g., jsmith).

Output Fields

Returns: the username of the current user (e.g., jsmith).

Example

<source lang="javascript"> //Add a comment when closing

```
current.comments = "Closed by " + gs.getUserName() + " at " + gs.nowDateTime();
gs.addInfoMessage("Close comment added");
```

} </source>

getUserNameByUserID(String)

Gets the username based on a user ID.

Input Fields

Parameters: a sys_id as a string.

Output Fields

Returns: the username.

getXMLText (String, String)

Gets the xml text for the first node in the xml string that matches the xpath query.

Input Fields

Parameters:

- XML to search within
- · xpath query to match

Output Fields

Returns: the XML node value as text.

getXMLNodeList(String)

Constructs an Array of all the nodes and values in an XML document.

Input Fields

Parameters: XML document to parse.

Output Fields

Returns: an array list of names and values.

hasRole(String)

Determines if the current user has the specified role. This method returns true for users with the administrator role.

Input Fields

Parameters: the role to check.

Output Fields

Returns: true if the user has the role or false if the user does not have the role.

Example

<source lang="javascript"> if (!gs.hasRole("admin") && !gs.hasRole("groups admin") && gs.getSession().isInteractive()) {

```
var qc = current.addQuery("u_hidden", "!=", "true"); //cannot see hidden groups...
 qc.addOrCondition("sys id", "javascript:getMyGroups()"); //...unless in the hidden
group
```

```
} </source>
```

hasRoleInGroup(Object, Object)

Determines if the current user has the specified role within a specified group.

Input Fields

Parameters:

- The name of the role to check for.
- A GlideRecord or the sys id of the group to check within.

Output Fields

Returns: Returns true if all of the following conditions are met:

- 1. The logged-in user HAS the role in question
- 2. The "Granted by" field on the user role record is set to the specified group
- 3. The "inherited" field on the user role record is false

Example

<source lang="javascript"> var group = new GlideRecord('sys_user_group'); group.addQuery('name', 'GROUP NAME'); group.setLimit(1); group.query(); if (group.next()) {

```
if (gs.hasRoleInGroup('role_name', group)) {
   gs.print('User has role in group');
} else {
   gs.print('User does NOT have role in group');
}
```

} </source>

isInteractive()

Checks if the current session is interactive. An example of an interactive session is when a user logs in using the log-in screen. An example of a non-interactive session is using a SOAP request to retrieve data.

Output Fields

Returns: true if the session is interactive.

Example

<source lang="javascript"> if (!gs.hasRole('admin') && gs.isInteractive()) {

```
var qc1 = current.addQuery('u_group', );
var gra = new GlideRecord('sys_user_grmember');
gra.addQuery('user', gs.getUserID());
gra.query();
while (gra.next()) {
  qc1.addOrCondition('u group', gra.group);
```

} </source>

isLoggedIn()

Determines if the current user is currently logged in.

Output Fields

Returns: true if the current user is logged in, false if the current user is not.

setRedirect(Object)

Sets the redirect URI for this transaction. This determines the next page the user will see.

Input Fields

Parameters: URI object to set as redirect.

Example

The following example redirects the user to a particular Catalog Item, and passes along the current email as a parameter:

<source lang="javascript"> gs.setRedirect("com.glideapp.servicecatalog cat item view.do?sysparm id= d41ce5bac611227a0167f4bf8109bf70&sysparm user=" + current.sys id + "&sysparm email=" + current.email) </source>

setReturn(Object)

Sets the return URI for this transaction. This determines what page the user will be directed to when they return from the next form.

Input Fields

Parameters: URI object to set as return.

Example

The following example ensures that the user will be returned to the current page when they are done with the next one.

<source lang="javascript">

```
gs.setReturn (current.getLink(true));
```

</source>

userID()

Returns the sys_id of the user associated with this session. A shortcut for the more proper getUserID().

Output Fields

Returns: sys_id of current user.