

Service Now Development

Scripting Locations in Service Now

1. Business Rules
2. Client Scripts
3. UI Actions
4. Script Include
5. UI policies
6. Workflow Scripting
7. Scheduled Jobs
8. API s
9. Where to customization in service now
10. Transform Maps
11. UI Pages & UI Macros
12. Web Services
13. Service Portal Widgets
14. More.....

Glide Record

Section Outline

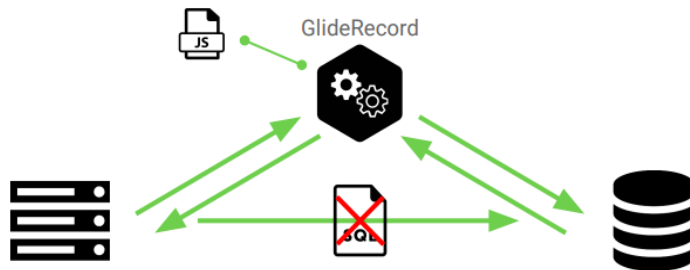
1	GlideRecord Introduction	7	Walking Through CRUD
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What is Glide Record?

Glide Record is a special Java class (GlideRecord.java) that can be used in JavaScript exactly as if it was a native JavaScript class.

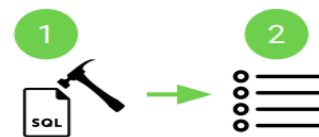
1. It is used for database operations instead of writing **SQL queries**.
2. It is an object that contains **zero or more records from one table**. Another way to say this is that a Glide Record is an ordered list.
3. A Glide Record contains both records (**rows**) and fields (**columns**). The field names are the same as the underlying database column names.

Application Storage



Glide Record Introduction

- Most common API
- Server side
- Used for database operations (CRUD)
- Generates SQL for you
- 2 stages
 - Building a query
 - Process records



Show Me The Code!

- Print a list of all priority 1 incidents to the screen

```
1 var incidentGR = new GlideRecord('incident');
2 incidentGR.addQuery('priority' , 1);
3 incidentGR.query();
4 while (incidentGR.next()) {
5     gs.info(incidentGR.number)
6 }
```

- Print a list of all priority 1 incidents to the screen using by filter condition

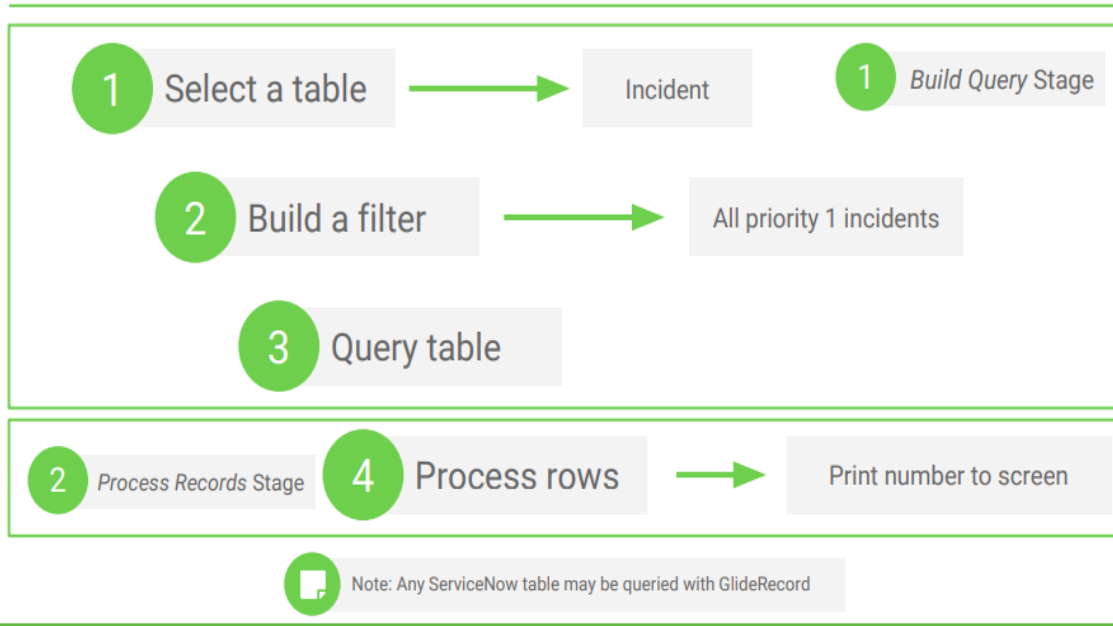
<input type="checkbox"/>	i	INC0000007	2015-08-12 16:08:24	Need access to sales DB for the West	Joe Employee	● 1 - Critical	2018-06-15 05:44:15
<input type="checkbox"/>	i	INC0000051	2018-04-01 13:48:32	Manager can't access SAP Controlling application	Joe Employee	● 1 - Critical	2018-06-15 05:44:15
<input type="checkbox"/>	i	INC0000031	2017-12-25 16:18:03	Need help with Remedy. Can we configure UI?	Joe Employee	● 1 - Critical	2018-04-22 12:44:20

Glide Record by Analogy: Grocery Shopping

1. Go to a grocery store
2. Grab a shopping cart
3. Place groceries in the shopping cart
4. Checkout at cashier

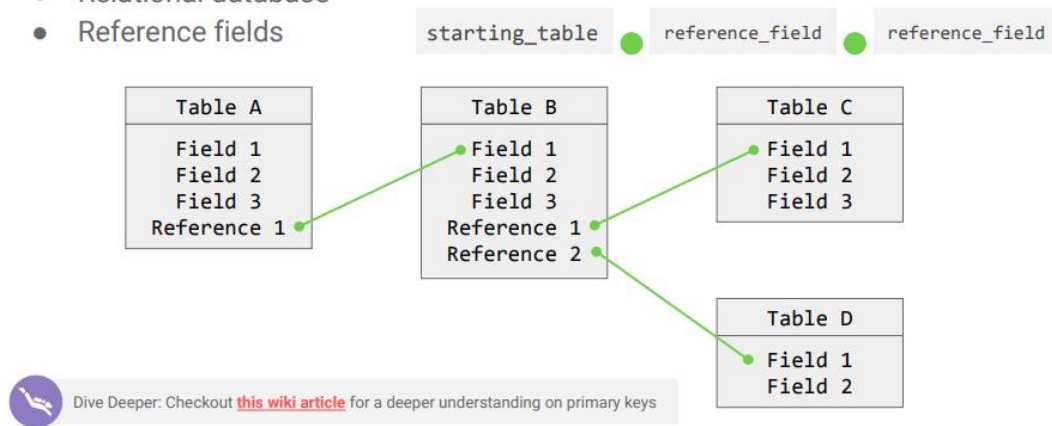


General Glide Record Steps



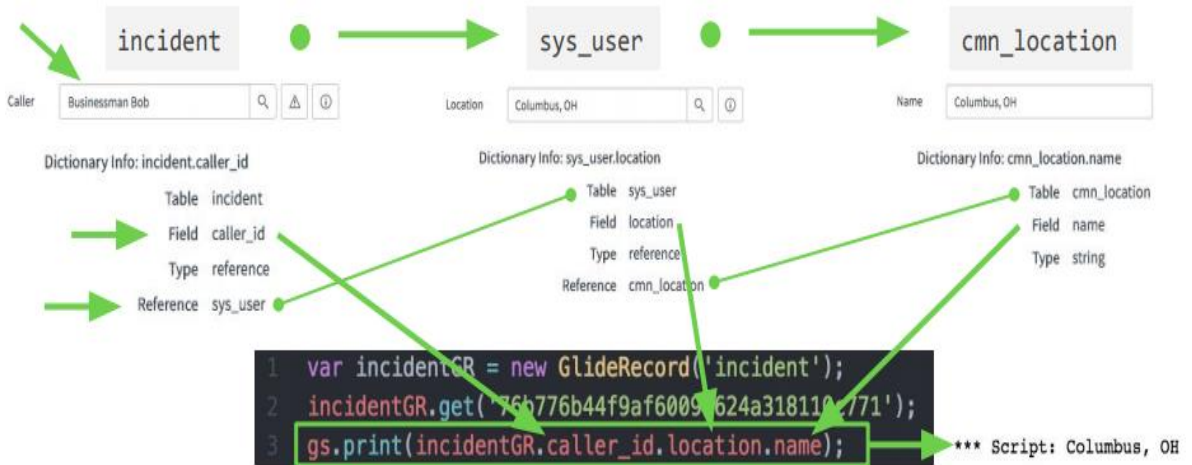
Concept: Dot-Walking

- Relational database
- Reference fields



Example: Dot-Walking

- Example:
 - For a specific incident, you would like to find the location of the caller



Glide Record API Diagram



Note: Ovals represent properties or topics associated with API, while rounded rectangles represent methods

Glide Record API Mapping

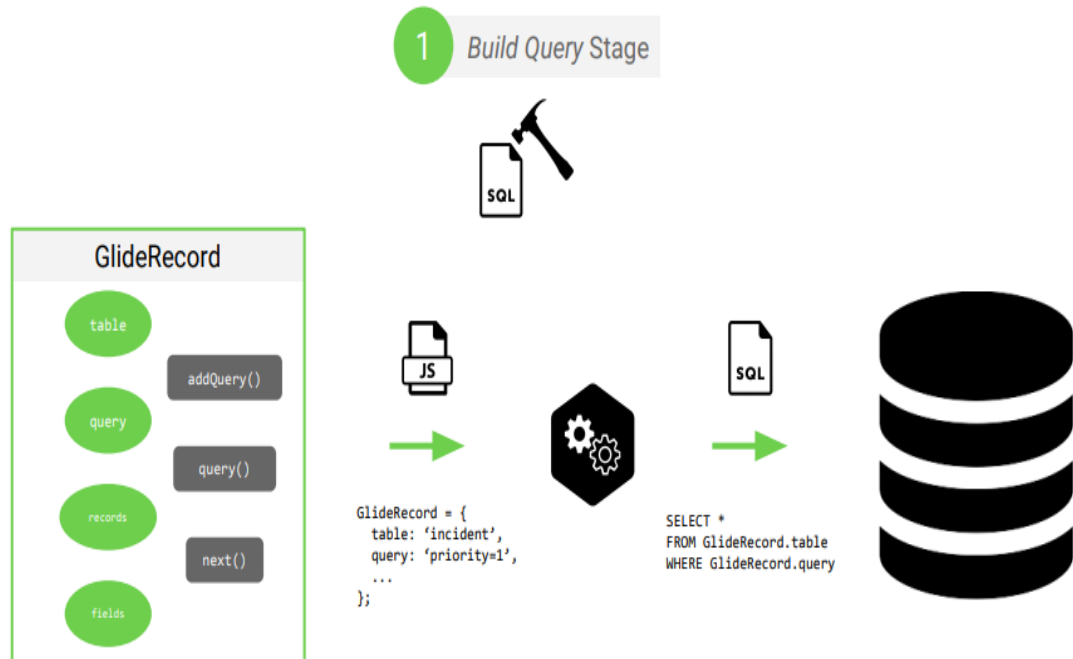


Common Glide Record Methods

- query()
- newRecord()
- insert()
- update()
- deleteRecord()
- addQuery()
- addEncodedQuery()
- hasNext()
- next()
- get()
- orderBy()
- orderByDesc()
- canCreate()
- canWrite()

- canRead()

Glide Record Stage 1: Building Query



Glide Record Stage 1: Options to Build Queries

1 Chain Methods

- addQuery()
- addOrCondition()
- addNullQuery()
- addNotNullQuery()
- addActiveQuery()
- addInactiveQuery()

2 Encoded Query

- addEncodedQuery()

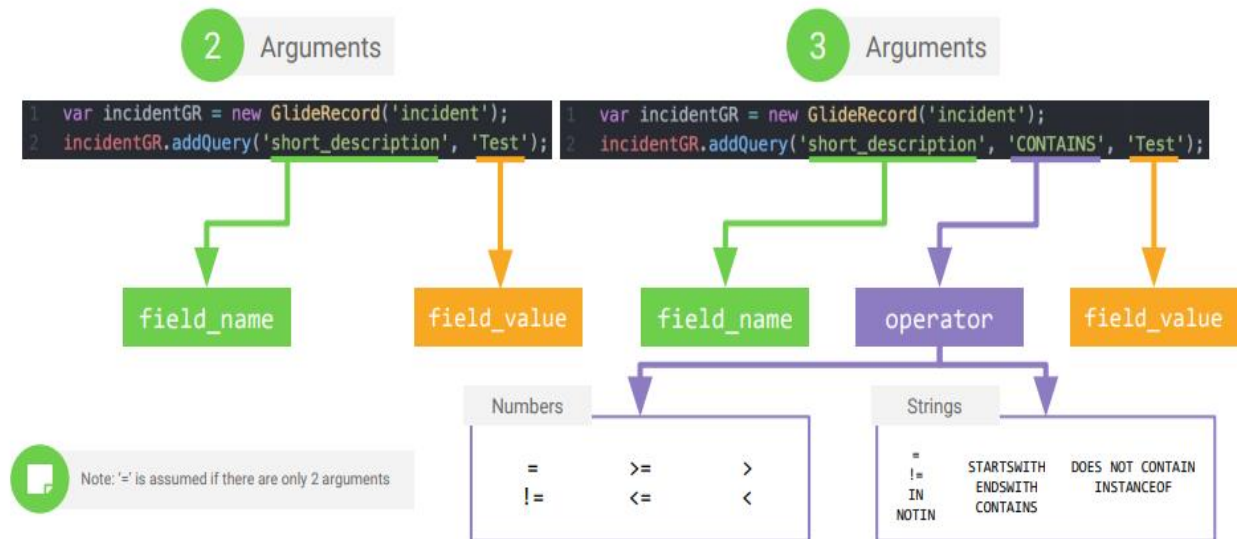
Glide Record Stage 1: Option 1 - Chain Methods

Add GlideRecord methods onto the current GlideRecord object

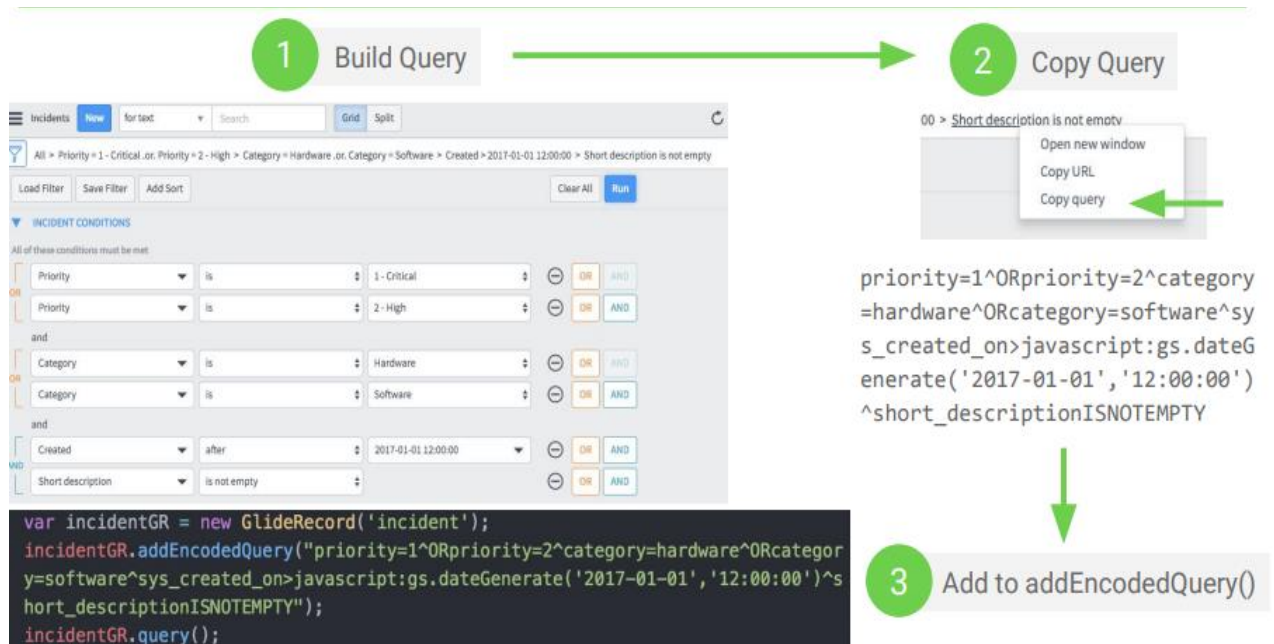
```
1 var incidentGR = new GlideRecord('incident');
2 var orCond1 = incidentGR.addQuery('priority', '1');
3 orCond1.addOrCondition('priority', '2');
4 var orCond2 = incidentGR.addQuery('category', 'hardware');
5 orCond2.addOrCondition('category', 'software');
6 incidentGR.addQuery('sys_created_on', '>', '2017-01-01 12:00:00');
7 incidentGR.addNotNullQuery('short_description');
8 incidentGR.query();
```

Glide Record addQuery() Method

- Accepts 2 or 3 arguments

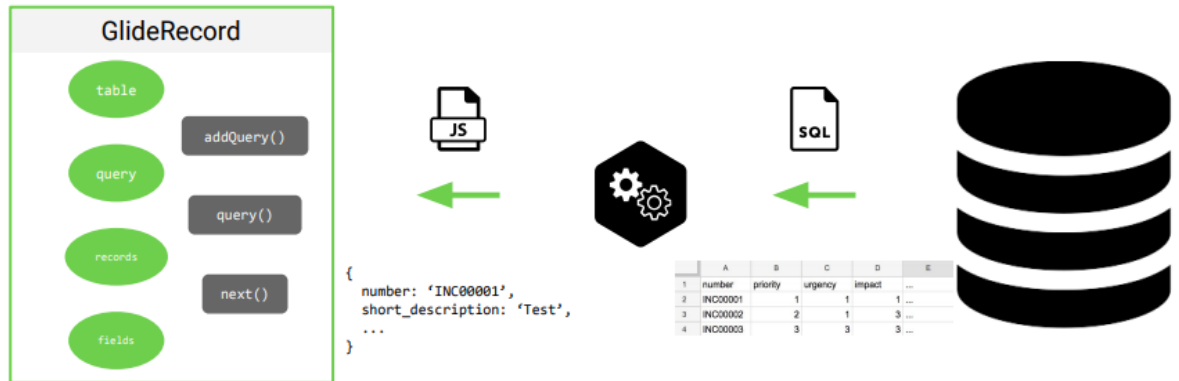


Glide Record Stage 1: Option 2 - Encoded Query

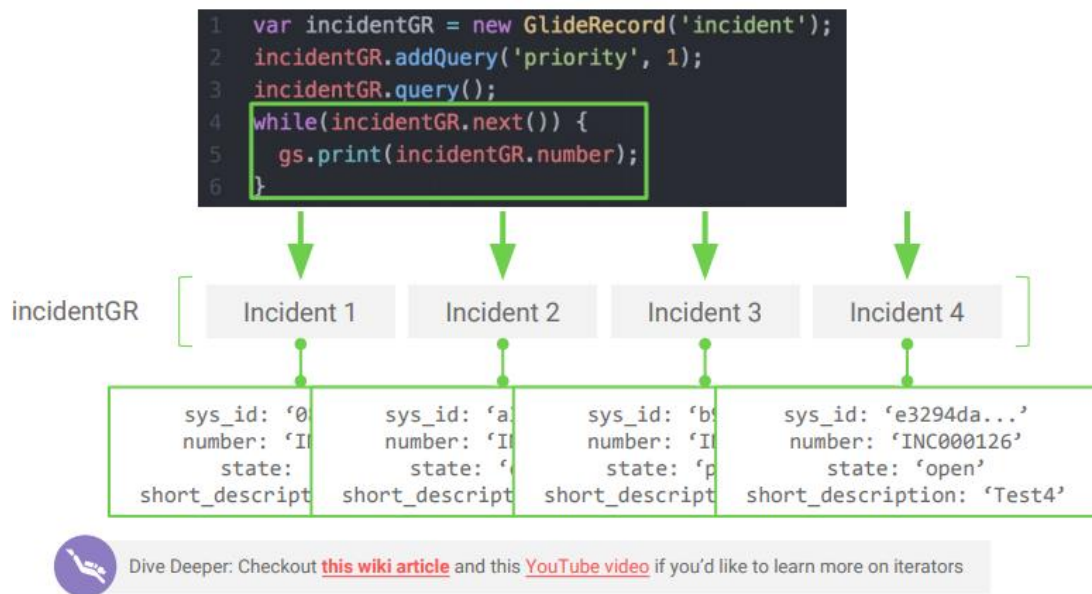


Glide Record Stage 2: Process Records

2 Process Records Stage



Glide Record next() Method & Iteration



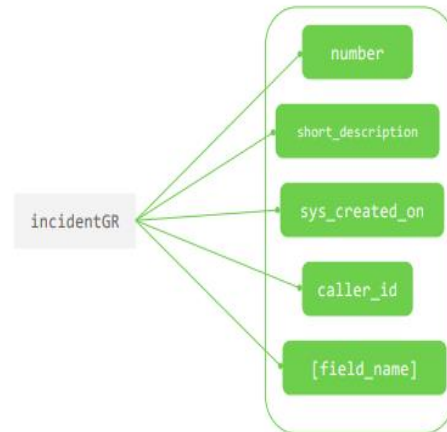
Accessing a Record's Fields

- Once query() method is executed and stage 2 begins, all fields are just a dot away
- Fields become GlideRecord properties

```

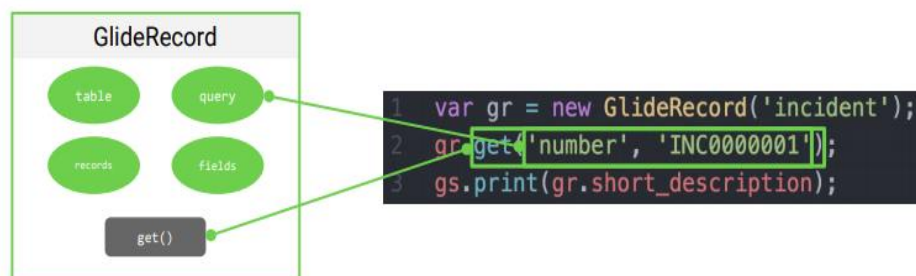
1 var incidentGR = new GlideRecord('incident');
2 incidentGR.addQuery('priority', 1);
3 incidentGR.query();
4 while(incidentGR.next()) {
5     gs.print(incidentGR.number);
6 }

```

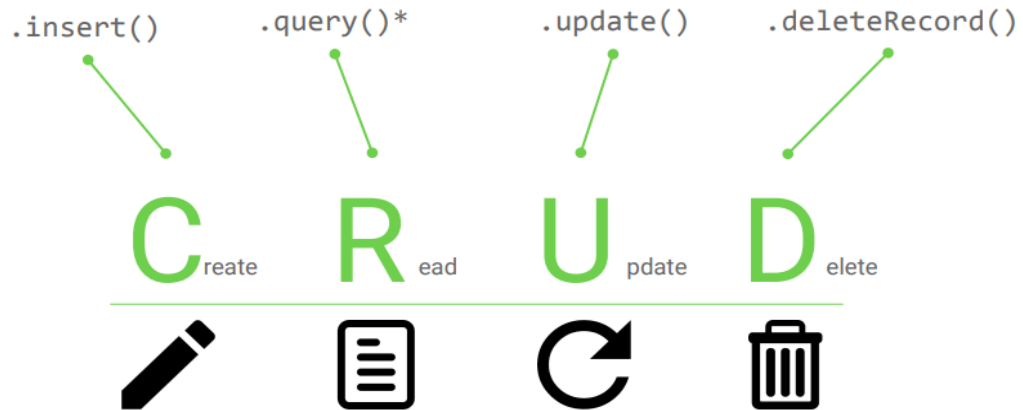


Glide Record get() Method

- Shortcut
- Only grabs 1 record
- Commonly used with record sys_id



CRUD Glide Record Mapping



CRUD - Create

1. Build GlideRecord
2. query()
3. newRecord()
4. Set field values
5. insert()

```
1 var incidentGR = new GlideRecord('incident');
2 incidentGR.query();
3 incidentGR.newRecord();
4 incidentGR.short_description = 'Testing 123'
5 incidentGR.insert();
```

Note: After executed this script check in incident table

CRUD - Read

1. Build Glide Record
2. Add filter conditions (optional)
3. query()
4. next()
5. Print or copy variables

```
1 var incidentGR = new GlideRecord('incident');
2 incidentGR.addQuery('priority' , 1);
3 incidentGR.query();
4 while(incidentGR.next()) {
5     gs.info(incidentGR.number);
6 }
```

CRUD - Update

1. Build Glide Record
2. Add filter conditions (optional)
3. query()
4. next()
5. Set field values
6. update()

```
1 var incidentGR = new GlideRecord('incident');
2 incidentGR.addQuery('priority' , 1);
3 incidentGR.query();
4 while(incidentGR.next()); {
5     //updating the record
6     incidentGR.description = '2'
7     incidentGR.update();
8 }
```

CRUD - Delete

1. Build GlideRecord
2. Add filter conditions (optional)
3. query()
4. next()
5. deleteRecord()

```
1 var incidentGR = new GlideRecord('incident');
2 incidentGR.addQuery('number', 'INC0000054');
3 incidentGR.query();
4 while(incidentGR.next()){
5     incidentGR.deleteRecord();
6 }
```

Glide Record Secure

- Glide Record Secure class is inherited from Glide Record
 - ✓ Has all of the same methods
 - ✓ Performs ACL checking
- Used to secure Script Includes
- Replaces canWrite(), canRead(), canUpdate(), canDelete() GlideRecord methods



Dive Deeper: Watch [episode 15 of TechNow](#) to learn more about GlideRecordSecure

Working with gs.print ()method

```
1 gs.print('Hello World')
```

Result: Just print the Output is “Hellow World”

Adding two numbers a simple program:

```
1 var a =10;
2 var b =20;
3 var c = a+b;
4 gs.print(c);
```

Result: given the total = 30

Working with query () method:

```
1 var incidentGR = new GlideRecord('incident');
2 incidentGR.query();
3 while(incidentGR.next()) {
4     gs.print(incidentGR.number)
5 }
```

Result: Display all the incident numbers in a specified table

Working with addQuery () method

Example 1:

```
1 var incidentGR = new GlideRecord('incident');
2 incidentGR.addQuery('short_description', 'CONTAINS', 'Test');
3 incidentGR.query();
4 while(incidentGR.next()){
5     gs.print(incidentGR.number);
6 }
```

Result: Given the incident number where the description field is “Test” value

Example 2:

```
1 var incidentGR = new GlideRecord('incident') ;
2 incidentGR.addQuery('priority', '<=', 1);
3 incidentGR.query();
4 while (incidentGR.next()) {
5     gs.print(incidentGR.number);
6 }
```

Example 3:

```
1 var incidentGR = new GlideRecord('incident');
2 incidentGR.addQuery('active', true);
3 incidentGR.query();
4 while(incidentGR.next()) {
5     gs.log('Category is ' + incidentGR.category);
6 }
```

Working addOrCondition () method

```
1 var incidentGR = new GlideRecord('incident');
2 var orincidentGR = incidentGR.addQuery('state', 6);
3 orincidentGR.addOrCondition('state', 7);
4 incidentGR.query();
5 while(incidentGR.next()) {
6     gs.log('Category is ' + incidentGR.category + ' : ' + incidentGR.number);
7 }
```

Working with next () method

```
1 var incidentGR = new GlideRecord('incident');
2 incidentGR.query();
3 gs.print(incidentGR.number)
```

Result: Empty

```
1 var incidentGR = new GlideRecord('incident');
2 incidentGR.query();
3 incidentGR.next();
4 gs.print(incidentGR.number)
```

Result: Given first incident number from incident Table

Working with addQuery () method


```

1  var incidentGR = new GlideRecord('incident');
2  incidentGR.addQuery('priority' , 1);
3  incidentGR.query();
4  while(incidentGR.next()){
5      gs.print('priority 1 incidents: ' + incidentGR.number + ' : ' + incidentGR.priority);
6  }

```

Result: Given all priority 1 incidents from incident Table

```

1  var incidentGR = new GlideRecord('incident');
2  incidentGR.addQuery('priority' , 1);
3  incidentGR.query();
4  while(incidentGR.next()){
5      gs.print('priority 1 incidents: ' + incidentGR.number + ' : ' + incidentGR.priority.getDisplayValue());
6  }

```

Working with get () method

```

1  var incidentGR = new GlideRecord('incident');
2  incidentGR.get('097a1f22dbda13007fa185184b96190b');
3  gs.print(incidentGR.number + ' : ' + incidentGR.short_description)

```

Result: Given incident number and short description of sys_id

```

1  var incidentGR = new GlideRecord('incident');
2  incidentGR.get('097a1f22dbda13007fa185184b96190b');
3  gs.print(incidentGR.number + ' has a sys_id of ' + incidentGR.sys_id);

```

Working with addEncodedQuery () method

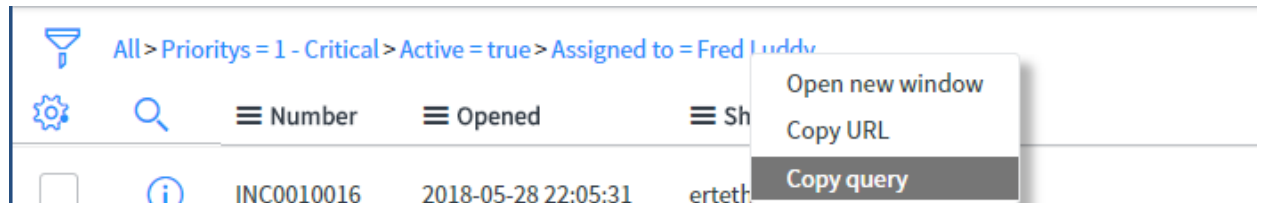
Step 1: Navigate to Incident list view

Step 2: Build the query using by filter condition shown below → Run

All of these conditions must be met

Priority	is	1 - Critical	AND	OR	X
Active	is	true	AND	OR	X
Assigned to	is	Fred Luddy	AND	OR	X

Step 3: Copy the query from list view



Copy Query = `priority=1^active=true^assigned_to=5137153cc611227c000bbd1bd8cd2005`

```
1 var queryString = 'priority=1^active=true^assigned_to=5137153cc611227c000bbd1bd8cd2005';
2 var incidentGR = new GlideRecord('incident');
3 incidentGR.addEncodedQuery(queryString);
4 incidentGR.query();
5 while(incidentGR.next()){
6     gs.print(incidentGR.number);
7 }
```

Result: Given incidents based on you condition query matched

Working with newRecord insert () method

```
1 var incidentGR = new GlideRecord('incident');
2 incidentGR.newRecord();
3 incidentGR.short_description = 'This incident was created from background scripts';
4 incidentGR.insert();
```

Result: A new record is created in Incident table and navigates to list view to confirm

```

1 var incidentGR = new GlideRecord('incident');
2 incidentGR.newRecord();
3 incidentGR.short_description = 'This incident was created from background scripts';
4 var newIncidentSysId = incidentGR.insert();
5 gs.print(newIncidentSysId);

```

Working with create multiple records insert () method

```

1 var newIncidents = [];
2 var counter = 1;
3 var incidentGR = new GlideRecord('incident');
4 while(counter <= 5) {
5     incidentGR.newRecord();
6     incidentGR.short_description = 'Incident #' + counter;
7     counter++;
8     newIncidents.push(incidentGR.insert());
9 }
10 gs.print(newIncidents);

```

Result: Created multiple records then check in to your list view

Working with delete records () method

```

1 var incidentGR = new GlideRecord('incident');
2 incidentGR.addQuery('short_description' , 'Incident #1');
3 incidentGR.query();
4 while(incidentGR.next()){
5     incidentGR.deleteRecord()
6 }

```

Result: Deleted a record then check in to your list view

Working with orderBy () method

```

1 var incidentGR = new GlideRecord('incident');
2 incidentGR.orderBy('short_description');
3 incidentGR.query();
4 while(incidentGR.next()) {
5     gs.print(incidentGR.short_description);
6 }

```

Result: Returned all the incidents short_description value in Order by Ascending

```

1  var incidentGR = new GlideRecord('incident');
2  incidentGR.orderBy('short_description');
3  incidentGR.query();
4  while(incidentGR.next()) {
5      gs.print(incidentGR.number + ' : ' + incidentGR.short_description);
6  }

```

Working with orderByDesc () method

```

1  var incidentGR = new GlideRecord('incident');
2  incidentGR.orderByDesc('short_description');
3  incidentGR.query();
4  while(incidentGR.next()) {
5      gs.print(incidentGR.number + ' : ' + incidentGR.short_description);
6  }

```

Result: Returned all the incidents short_description value in Order by Descending

Working with setLimit () method

```

1  var problemGR = new GlideRecord('problem');
2  problemGR.setLimit(10);
3  problemGR.query()
4  while(problemGR.next()) {
5      gs.print(problemGR.number)
6  }

```

Result: Returned 10 records from problem table for setLimit

Working with setLimit () method

```

1  var incidentGR = new GlideRecord('incident');
2  incidentGR.addEncodedQuery('priority=1')
3  incidentGR.setLimit(10);
4  incidentGR.query()
5  while(incidentGR.next()) {
6      gs.print(incidentGR.number)
7  }

```

Example 2:

```
1  var incidentGR = new GlideRecord('incident');
2  incidentGR.addEncodedQuery('priority=1');
3  incidentGR.setLimit(10);
4  incidentGR.orderBy('short_description');
5  incidentGR.query();
6  while(incidentGR.next()) {
7      gs.print(incidentGR.number + ' : ' + incidentGR.short_description);
8  }
```

Working with Access Control List canCreate, canWrite, canRead, canDelete

```
1  var problemGR = new GlideRecord('problem');
2  problemGR.query();
3  if(problemGR.canCreate() && problemGR.canRead() && problemGR.canWrite() && problemGR.canDelete() ) {
4      gs.print('I have access to ,Create ,Read Update, and Delete');
5  }
```

Working with getRowCount () method

```
1  var incidentGR = new GlideRecord('incident');
2  incidentGR.query();
3  gs.print(incidentGR.getRowCount());
```

Result: Returned total records in incident Table

Working with hasNext () method

```
1  var incidentGR = new GlideRecord('incident');
2  incidentGR.query();
3  gs.print(incidentGR.hasNext());
```

Result: Returned boolean value as a True

Example 2:

```

1  var incidentGR = new GlideRecord('incident');
2  incidentGR.query();
3  gs.print(incidentGR.next());

```

Example 3: This is not working properly the hasNext method

```

1  var incidentGR = new GlideRecord('incident');
2  incidentGR.query();
3  if(incidentGR.hasNext()){
4      gs.print(incidentGR.number);
5  }

```

Example 4: This will work properly and returned first record from incident table

```

1  var incidentGR = new GlideRecord('incident');
2  incidentGR.query();
3  if(incidentGR.next()){
4      gs.print(incidentGR.number);
5  }

```

Example 5:

```

1  var incidentGR = new GlideRecord('incident');
2  incidentGR.addQuery('priority',0);
3  incidentGR.query();
4  gs.print(incidentGR.hasNext());

```

Working with get () method

```

1  var incidentGR = new GlideRecord('incident');
2  incidentGR.get('number','INC0000039')
3  gs.print(incidentGR.number);

```

Result: Returned incident number as provided in get method

Working with getLink () method

```

1 var incidentGR = new GlideRecord('incident');
2 incidentGR.get('number', 'INC0000039')
3 gs.print(incidentGR.getLink());

```

Result:

`incident.do?sys_id=471bfbc7a9fe198101e77a3e10e5d47f&sysparm_stack=incident_list.do?sysparm_query=active=true`

Working with deleteMultiple () method

```

1 var incidentGR = new GlideRecord('incident');
2 incidentGR.addEncodedQuery('short_descriptionLIKEincident #');
3 incidentGR.deleteMultiple();

```

Result: Deleted multiple records form expected table

Working with update () method to change urgency

Example 1:

```

1 var incidentGR = GlideRecord('incident');
2 incidentGR.get('number', 'INC0000018');
3 incidentGR.urgency = 2;
4 incidentGR.update();

```

Result: Urgency value has been changed

Example 2:

```

1 var incidentGR = new GlideRecord('incident');
2 incidentGR.addQuery('urgency', 2);
3 incidentGR.query();
4 while(incidentGR.next()) {
5     gs.print(incidentGR.number)
6 }

```

Example 3:

```

1  var incidentGR = new GlideRecord('incident');
2  incidentGR.addQuery('urgency', 2);
3  incidentGR.query();
4  while(incidentGR.next()) {
5      incidentGR.urgency = 3;
6      incidentGR.update();
7  }

```

Working with addNullQuery () method

```

1  var incidentGR = new GlideRecord('incident');
2  incidentGR.addNullQuery('short_description');
3  incidentGR.query();
4  while(incidentGR.next()) {
5      gs.print(incidentGR.number);
6  }

```

Result: Return all records where the description field value is null

Working with addNotNullQuery () method

```

1  var incidentGR = new GlideRecord('incident');
2  incidentGR.addNotNullQuery('short_description');
3  incidentGR.query();
4  while(incidentGR.next()) {
5      gs.print(incidentGR.number);
6  }

```

Result: Return all records where the description field contain the value

Working with chooseWindow () method

```

1  var incidentGR = new GlideRecord('incident');
2  incidentGR.chooseWindow(10, 20);
3  incidentGR.query();
4  while(incidentGR.next()) {
5      gs.print(incidentGR.number);
6  }

```

Result: Choose Window will return all records between the first parameter(inclusive) and the second parameter(exclusive), so this example will return the 10 incidents between record 10-19 both inclusive. Works with orderBy

Working with addInfoMessage () method

```
1 var gr = new GlideRecord('incident');
2 var queryString = "priority=1^ORpriority=2";
3 gr.addEncodedQuery(queryString);
4 gr.query();
5 while (gr.next()) {
6     gs.addInfoMessage(gr.number);
7 }
```

Working with addJoinQuery() method

Example 1:

```
1 var prob = new GlideRecord('problem');
2 prob.addJoinQuery('incident');
3 prob.query();
4 while(prob.next()) {
5     gs.print(prob.number);
6 }
```

Example 2:

```
1 // Look for Problem records
2 var incidentGR = new GlideRecord('problem');
3 // That have associated Incident records
4 var grSQ = incidentGR.addJoinQuery('incident');
5 // Where the Problem records are "active=false"
6 incidentGR.addQuery('active', 'true');
7 // And the Incident records are "active=true"
8 grSQ.addCondition('active', 'true');
9 // Query
10 incidentGR.query();
11 // Iterate and print results
12 while (incidentGR.next()) {
13     gs.print(incidentGR.getValue('number'));
14 }
```

Result: Find inactive problems with associated incidents

Just by you want to know caller is VIP or not methods

```
1 var inc = new GlideRecord('incident');
2 inc.addQuery('number','INC0000019');
3 inc.query();
4 if(inc.next()){
5   if(inc.caller_id.vip == true)
6   {
7     gs.print("Caller is VIP");
8   }
9   else{
10    gs.print("Caller is not VIP");
11  }
12 }
```

Secure canCreate , canCreate, canUpade, canDelete () methods

Example 1:

```
1 var gr = new GlideRecord('incident');
2 gs.info(gr.canCreate());
```

Example 2:

```
1 var gr = new GlideRecord('incident');
2 gs.info(gr.canRead());
```

Example 3:

```
1 var gr = new GlideRecord('incident');
2 gs.info(gr.canDelete());
```

Example 3:

```
1 var gr = new GlideRecord('incident');
2 gs.info(gr.canUpdate());
```

```
1  var elementName = 'short_description';
2  var incidentGR = new GlideRecord('incident');
3  incidentGR.initialize();
4  incidentGR.setValue(elementName, "My Net work cable is not working properly");
5  incidentGR.insert();
6  gs.info(incidentGR.getElement('short_description'));
```

Glide Form

Section Outline

1	GlideForm Introduction	7	GlideUser Introduction
2	Show Me The Code!	8	Show Me The Code!
3	Client Side Environment	9	GlideUser API Diagram
4	GlideForm API Diagram	10	GlideUser Methods
5	Common GlideForm Methods	11	GlideUser Demo
6	GlideForm Demo	12	Section Recap

Glide Form Introduction

- Run from client-side
- Changes to form & fields
- Referenced by `g_form`

“

The GlideForm API provides methods to customize forms... The global object `g_form` is used to access GlideForm methods. GlideForm methods are only used on the client... These methods are used to make custom changes to the form view of records.

[ServiceNow Docs](#)

”

The Glide Form API provides methods to customize forms. **GlideForm.js** is the JavaScript class containing the methods. The global object **g_form** is used to access Glide Form methods. Glide Form methods are only used on the client.

These methods are used to make custom changes to the form view of records. All validation of examples was done using Client Scripts.

Some of these methods can also be used in other client scripts (such as Catalog Client Scripts or Wizard Client Scripts), but must first be tested to determine whether they will work as expected.

Note: The methods **getControl()**, **getHelpTextControl()**, **getElement()**, and **getFormElement()** are deprecated for mobile devices. For information on using GlideForm for mobile, see [Mobile Client GlideForm \(g_form\) Scripting and Migration](#) .

Show Me The Code!

- ✓ Set short description to mandatory when priority changes.

```
1 function onChange(control, oldValue, newValue, isLoading, isTemplate) {  
2     if (isLoading || newValue === '')  
3         return;  
4     g_form.setMandatory('short_description', True);  
5 }
```

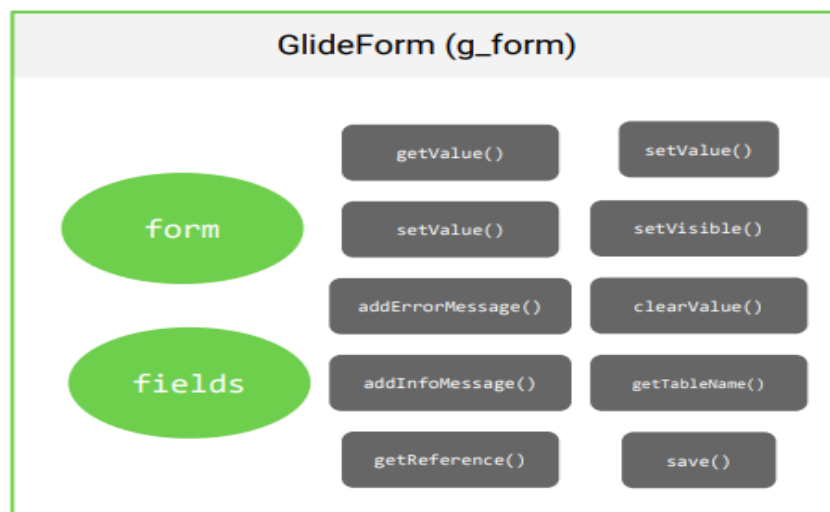
Type	onChange ▼
Field name	Prioritys ▼

Client-Side Environment

- Access to client-side APIs
 - ✓ Most are accessible via global scope
- Ctrl + Shift + j
- Debug to browser console
 - ✓ console.log()
 - ✓ console.dir()

Caution: Avoid manipulating the DOM directly in Service Now w/ client scripts and UI actions, use `g_form` instead

Glide Form API Overview



Common Glide Form Methods

- addInfoMessage()
- addErrorMessage()
- addOption()
- clearOptions()
- clearValue()
- disableAttachments()
- enableAttachments()
- getLabelOf()
- getOption()
- getReference()
- hideRelatedLists()
- isMandatory()
- removeOption()
- setDisabled()
- setReadOnly()
- setVisible()
- setValue()

Working with getValue() & setValue() Methods

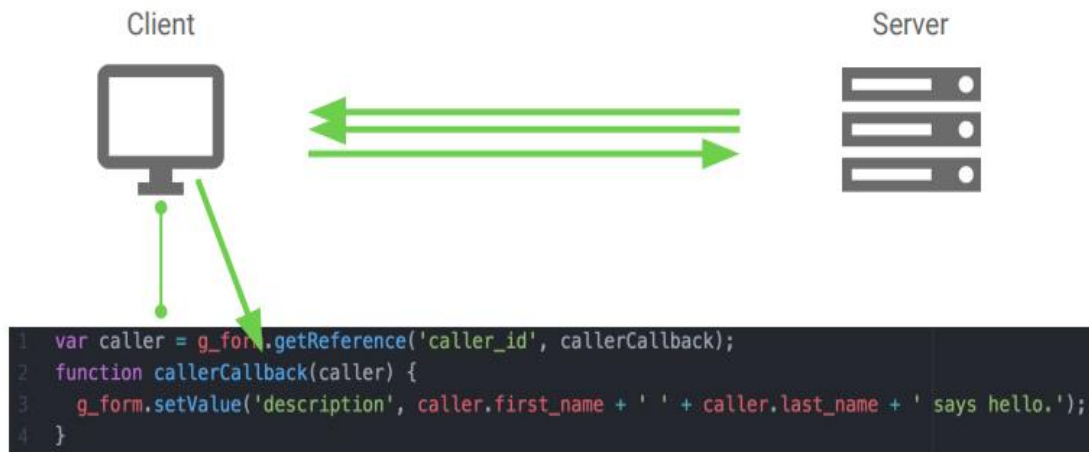
- ✓ Getter and setter methods for form fields
- ✓ getValue() accepts the field name as an argument
- ✓ setValue() accepts the field name and new value as arguments

```
1 var category = g_form.getValue('category');  
2  
3 var newCategory = 'software';  
4 g_form.setValue('category', newCategory);
```

Number	INC0020188
Caller	<input type="text"/>
Location	<input type="text"/>
Category	Inquiry/Help
Subcategory	-- None --
Configuration Item	<input type="text"/>

Working with getReference() Method

- Form only loads fields associated with record on form
- Use getReference() to retrieve referenced field values
- Leverages JavaScript callbacks



Working with getValue () Method

Step 1: Ctrl+Shift+j

Step 2: Open ATOM

Write code `var fieldValue = g_form.getValue('category');`

`alert(fieldValue);`

Step 3: Copy code and paste into JavaScript Excutor



```
1 var fieldValue = g_form.getValue('category');
2 alert(fieldValue);
```

Result: Get Current category field value on the form

Working with setValue () Method

```
1 g_form.setValue('category', 'network');
```

Result: Set Current category field value on the form

Working with clearValue () Method

```
1 g_form.clearValue('category');
```

Result: Clear the value in category field

Working with save() Method

```
1 g_form.save();
```

Result: Saves current form

Working with setDisabled() Method

```
1 g_form.setDisabled('category', true);
```

```
1 g_form.setDisabled('category', false);
```

Result: Disabled form fields

Working with hideRelatedLists() and showRelatedLists() Method

```
1 g_form.hideRelatedLists();
```

Result: Hide related lists on form

```
1 g_form.showRelatedLists();
```

Result: Show related lists on form

Working with isMandatory() Method

Example 1:

```
1 alert(g_form.isMandatory('category'));
```

Example 1:

```
1 g_form.setMandatory('category', true);  
2 alert(g_form.isMandatory('category'));
```

Example 3:

```
1 g_form.setMandatory('category', true);  
2 alert(g_form.isMandatory('category'));  
3 g_form.clearValue('category');
```

Working with isMandatory() Method

```
1 var isNewRecord = g_form.isNewRecord();  
2 alert('is New Record ?' + isNewRecord);
```

Working with addInfoMessage() and addInfoMessage() Method

```
1 g_form.addInfoMessage('Hello Thank you')
```

```
1 g_form.addErrorMessage('Not Valid')
```

Working with clearMessage () Method

```
1  g_form.clearMessage();
```

Working with getLabelOf () Method

```
1  alert(g_form.getLabelOf('category');
```

Glide User

Section Outline

- 7 GlideUser Introduction
- 8 Show Me The Code!
- 9 GlideUser API Diagram
- 10 GlideUser Methods
- 11 GlideUser Demo
- 12 Section Recap

Glide User Introduction

- Client-side
- User information
- Referenced by g_user
- Relatively small & simple API

“

The GlideUser API provides access to information about the current user and current user roles. Using the GlideUser API avoids the need to use the slower GlideRecord queries to get user information.

[ServiceNow Docs](#)

”

Glide User

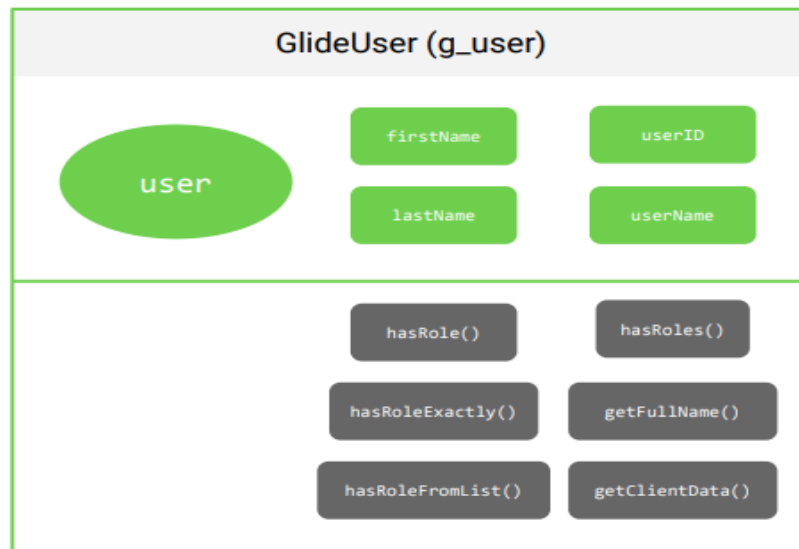
- Contains name and role information about the current user.
- It is typically used in client scripts and UI policies but is also found in UI actions that run
- Cannot be used in business rules or UI actions that run on the server.
- Avoids the need for Glide Record queries to get user information.
- Session information about the current user
- And current user roles are contained in the client (web browser).
- All Glide User methods except **getClientData()** access the session information that is available by default.
- The **getClientData()** method requires setup on the server and use of **putClientData()** to make session information available.

Show Me The Code!

- Check if the current user has the ITIL role

```
1 var hasITIL = g_user.hasRole('itil');|
2 if(!hasITIL) {
3     alert('You dont have sufficient privilages.');
4 }
```

Glide User API Overview



Glide User Methods & Properties

- `firstName`
- `lastName`
- `userID`
- `userName`
- `getClientData()`
- `getFullName()`
- `hasRole()`
- `hasRoleExactly()`
- `hasRoleFromList()`
- `hasRoles()`

Glide User hasRoleExactly() Method

- Takes the name of a role as its argument
- Returns true only if user has the specified role, even if current user is admin

```
1 console.log(g_user.hasRole('approval_admin')); /* returns true */  
2 console.log(g_user.hasRoleExactly('approval_admin')); /* returns false */
```

Glide User Properties

- Object properties
- Don't need getter methods