

# ServiceNow Application Developer

## Server-side Scripting > Exercise: Create the NeedItUtils Script Include

In this exercise, you will move the date verification logic you wrote in the *NeedIt When needed field date* Business Rule lab into a Script Include. You will call the Script Include method from the Business Rule.

### Create the Script Include

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1. Create a Script Include.
  - a. In Studio, click the **Create Application File** link.
  - b. In the *Filter...* field enter the text **Script** OR select **Server Development** from the categories in the left hand pane.
  - c. Select **Script Include** in the middle pane as the file type then click the **Create** button.

2. Configure the Script Include:

*Name:* **NeedItUtils**

*API Name:* **(this field value is automatically populated)**

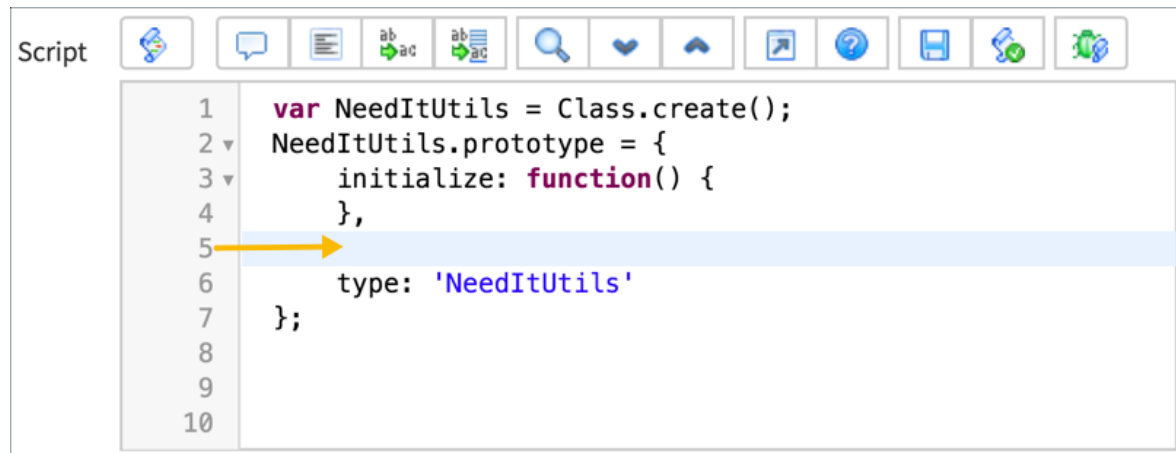
*Application:* **(this field value is automatically populated)**

*Accessible from:* **This application scope only**

*Active:* **Selected (checked)**

*Description:* **Utils Script Include for the NeedIt application.**

3. Copy the *isDatePast* function. Paste it into the Script Include after the *initialize* function and before the *type* property.



```
Script
1  var NeedItUtils = Class.create();
2  NeedItUtils.prototype = {
3    initialize: function() {
4    },
5    type: 'NeedItUtils'
6  };
7
8
9
10
```

```
isDatePast: function(strDate){
    // Create GlideDateTime objects for the current date and the passed
in date
    var rightnow = new GlideDateTime();
    var testdate = new GlideDateTime(strDate);

    // If the testdate is before rightnow, return true, else return false
    if (testdate.before(rightnow)) {
        return true;
    }
    else {
        return false;
    }
},
```

4. Click the **Submit** button.

## Modify the NeedIt When needed field date Business Rule

1. In Studio, use the Application Explorer to open **Server Development > Business Rules > NeedIt When needed field date**.

2. Delete the script logic for testing if the *When needed* date is in the past:

```
// rightnow stores the current time
var rightnow = new GlideDateTime();
// Create a GlideDateTime object for the When needed date
var whenNeeded = new GlideDateTime(current.u_when_needed);

// If the When needed date is before rightnow, do not write the record to
the database
// Output an error message to the screen
if(whenNeeded.before(rightnow)){
    gs.addErrorMessage("When needed date cannot be in the past. Your request
has not been saved to the database.");
    current.setAbortAction(true);
}
```

3. Copy and paste the new script logic into the Business Rule:

```
// Instantiate the NeedItUtils class. Call the isDatePast method and pass
// the u_when_needed value.
var niutils = new NeedItUtils();
var isPast = niutils.isDatePast(current.u_when_needed);


// If the isDatePast method returns true, the date is in the past.
if(isPast == true){
    gs.addErrorMessage("When needed date cannot be in the past. Your
request has not been saved to the database.");
    current.setAbortAction(true);
}
```

4. Click the **Update** button.

► **QUESTION:** Why is it a good idea to move the date validation logic out of the Business Rule and into the Utils Script Include?

## Test the Script Include and Business Rule

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1. Return to the main ServiceNow browser window.
2. Use the Application Navigator to open **NeedIt > Create New**.
3. Put values in all mandatory fields and set the *When needed* field date in the past.
4. Click the **Additional actions** menu (  ) and select the **Save** menu item. Do not click the *Submit* button because that will take you away from the form.
5. You should see an error message stating that the *When needed* date cannot be in the past. If you do not see the error message, debug and re-test. NOTE: If you worked the Challenge part of *Exercise: Create a Business Rule*, that logic might now be broken.

## Challenge

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If you worked the Challenge part of *Exercise: Create a Business Rule*:

1. Add a function, *isDateToday*, to the *NeedItUtils* Script Include. Move the logic to determine if the *When needed* date to the *isDateToday* function.
2. Make any modifications necessary to the *NeedIt When needed field date* Business Rule to use the *isDateToday* method.

If you did not work the Challenge part of *Exercise: Create a Business Rule* you can still do this Challenge:

1. Add a function called *isDateToday* to the *NeedItUtils* Script Include. Write logic to determine if the *When needed* date is after today.
2. Add whatever logic is necessary to the *NeedIt When needed field date* Business Rule to use the *isDateToday* method to test whether the *When needed* date is today. Do not allow users to save new records if the *When needed* value is today.

### ► CHALLENGE SOLUTION: