

PROJECT REPORT -08 SETTING UP SERVICENOW INSTANCE

Date	02 july 2025
Team ID	LTVIP2025TMID30284
Project Name	EDUCATIONAL ORGANISATION USING SERVICENOW
Maximum Marks	4 Marks

1. ☒ Auto-populating the **Client** field
2. ☒ Disabling certain fields
3. ☒ Auto-calculating **Total Marks**, **Result** (Pass/Fail), and **Percentage**

This script assumes you're working with a table like `u_student_progress` or `u_exam_result`.

USE CASE

On a form (e.g., Student Result Entry), we want to:

Field	Behavior
client (e.g., student name)	Auto-populate from reference
grade, total_marks, result	Auto-calculated
percentage	Calculated from obtained vs total
Certain fields (like result, percentage)	Disabled to prevent manual editing

✓ 1. Create a Client Script

Go to:

System Definition > Client Scripts → New

Field	Value
Name	Auto Populate & Disable Fields - Student Result
Table	u_student_progress (<i>or your table</i>)
Type	onChange or onLoad
UI Type	All (or Desktop)

- ✦ Use onLoad for disabling and auto-population
 - ✦ Use onChange for dynamic field updates like percentage or result
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📌 Script: onLoad to Disable Fields & Auto-populate

```
javascript
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function onLoad() {
    // Auto-populate client if not set
    if (!g_form.getValue('client')) {
```

```

    var userName = g_user.name;
    g_form.setValue('client', userName);
}

// Disable result and percentage so user can't manually edit
g_form.setReadOnly('result', true);
g_form.setReadOnly('percentage', true);
g_form.setReadOnly('total_marks', true);
}

```

Script: onChange for Marks Fields (Dynamic Calculations)

Trigger this on any field like `marks_obtained`, `maximum_marks`, etc.

```

javascript
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function onChange(control, oldValue, newValue, isLoading) {
    if (isLoading || newValue == '') {
        return;
    }

    // Get values
    var marks = parseFloat(g_form.getValue('marks_obtained'));
    var maxMarks = parseFloat(g_form.getValue('maximum_marks'));

    if (!isNaN(marks) && !isNaN(maxMarks) && maxMarks > 0) {
        var percentage = (marks / maxMarks) * 100;
        var result = percentage >= 40 ? 'Pass' : 'Fail';

        g_form.setValue('percentage', percentage.toFixed(2));
        g_form.setValue('total_marks', maxMarks);
        g_form.setValue('result', result);
    } else {
        g_form.setValue('percentage', '');
        g_form.setValue('result', '');
    }
}

```

Set this script on fields like:

- `marks_obtained`
- `maximum_marks`

Example Fields Required

Field Label	Field Name	Type
Client	<code>client</code>	Reference (e.g., User or Student Record)
Marks Obtained	<code>marks_obtained</code>	Decimal
Maximum Marks	<code>maximum_marks</code>	Decimal
Percentage	<code>percentage</code>	Decimal
Result	<code>result</code>	Choice (Pass/Fail)
Total Marks	<code>total_marks</code>	Integer or Decimal

Resulting Behavior

- **Client** auto-fills with the current user's name
 - **Result** and **Percentage** auto-update on marks change
 - **Result**, **Percentage**, and **Total Marks** are read-only to prevent manual entry
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Best Practices

Practice**Tip**

Field Validation Use Client Scripts to prevent negative values
Visual Indicators Use UI Policies to highlight "Fail" results in red
Notifications Add Flow to notify student if result is posted