



HOTS: Scripting 101 Exercises

#AccelaEngage

Logistics

Logging In

<https://av.training.accela.com/>

Agency: Script2 – Script35

Username: class1

Password: engage

Exercise Materials

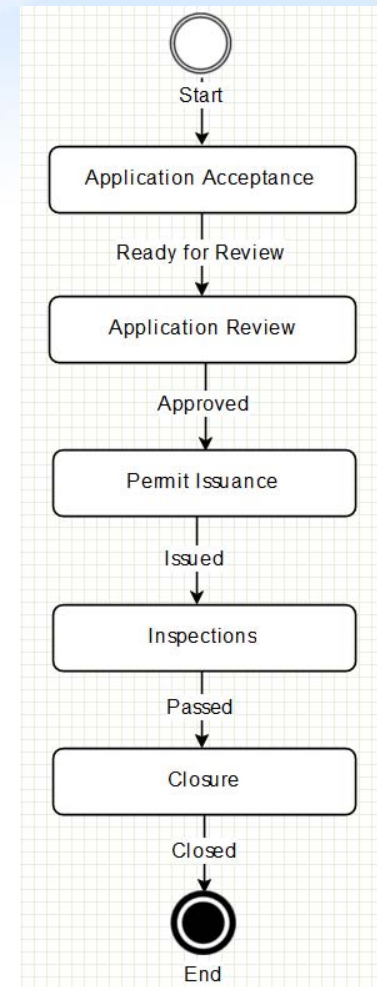
?:\Scripting 101 Materials

Exercise Summary

For the following exercises, we will walk through the life-cycle of a simple building permit application record and add some common scripts along the way.

Record Type: Building/Script1/NA/NA

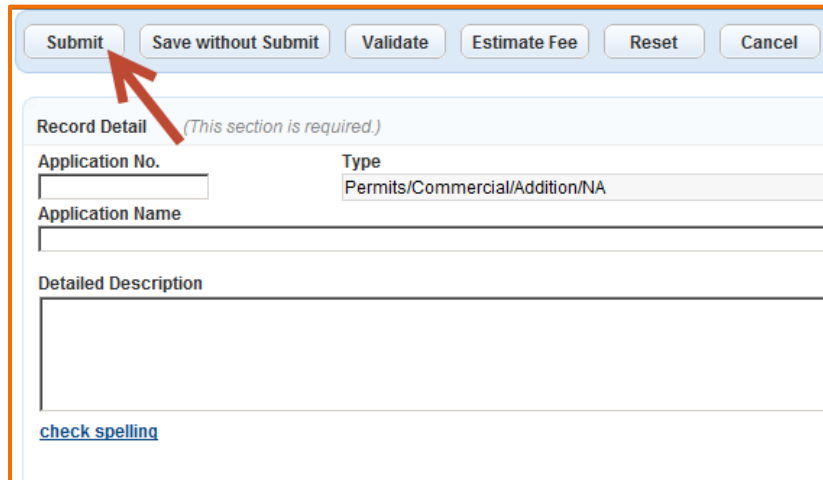
Manual Task	Automation (Scripts)
An application is submitted in Automation or ACA	<ul style="list-style-type: none">Send email notification to applicantCalculate Square footage in ASI
Agency staff updates the application workflow to "Ready for Review"	<ul style="list-style-type: none">Assess an application fee
Agency staff reviews the application and updates workflow to "Approved"	<ul style="list-style-type: none">Validate all fees have been paid
Customer makes a payment	<ul style="list-style-type: none">Update workflow to Application Review > Fees Paid
Agency staff updates workflow to "Approved"	<ul style="list-style-type: none">Update workflow to Permit Issuance > IssuedSchedule InspectionUpdate Expiration DateSend an email to the applicant
Inspector results inspection as Passed	<ul style="list-style-type: none">Update workflow to Inspections > PassedClose the workflow Closure > Closed



Exercise 1: ApplicationSubmitAfter

When an application is submitted:

- Send an email to notify the applicant that their application has been received.
- Calculate the ASI Square Footage using the Width & Height ASI values



Buttons: Submit, Save without Submit, Validate, Estimate Fee, Reset, Cancel

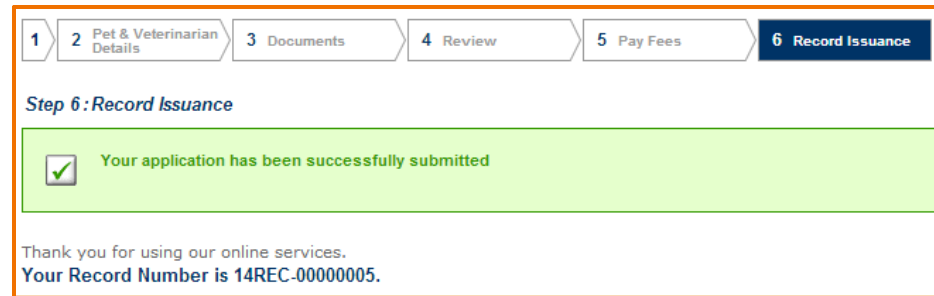
Record Detail *(This section is required.)*

Application No.	Type
<input type="text"/>	Permits/Commercial/Addition/NA

Application Name

Detailed Description

[check spelling](#)

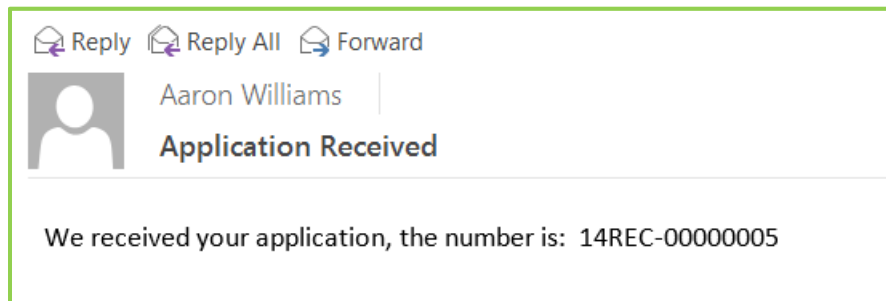


1 2 Pet & Veterinarian Details 3 Documents 4 Review 5 Pay Fees 6 Record Issuance


Step 6: Record Issuance

☒ Your application has been successfully submitted

Thank you for using our online services.
Your Record Number is 14REC-00000005.

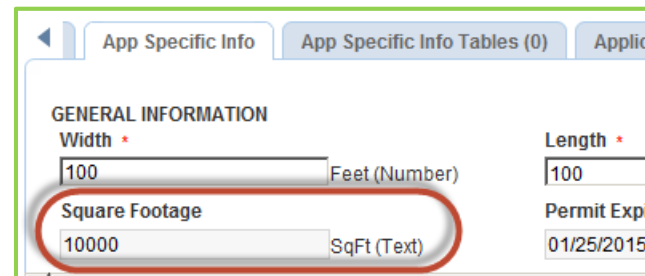


Reply Reply All Forward

 Aaron Williams

Application Received

We received your application, the number is: 14REC-00000005



App Specific Info App Specific Info Tables (0) Applica

GENERAL INFORMATION

Width *	Length *
<input type="text" value="100"/> Feet (Number)	<input type="text" value="100"/>
Square Footage	Permit Expir
<input type="text" value="10000"/> SqFt (Text)	<input type="text" value="01/25/2015"/>

Exercise 1: ApplicationSubmitAfter

Master Scripts 2.0 Solution

Standard Choice: ASA:Building/Script1/NA/NA

Script Code:

10	<code>true ^ email("saxthelm@accela.com","noreply@email.com","Application Received","We received your application, the number is: " + capIDString);</code>
20	<code>true ^ editAppSpecific("Square Footage",parseInt(AInfo["Width"]) * parseInt(AInfo["Length"]));</code>

Exercise 1: ApplicationSubmitAfter

Master Scripts 3.0 Solution

Script Name: ASA:BUILDING/SCRIPT1/NA/NA

Script Code:

```
email("saxthelm@accela.com","noreply@email.com","Application Received","We received your application, the number is: " + capIDString);  
  
editAppSpecific("Square Footage",parseInt(AInfo["Width"]) * parseInt(AInfo["Length"]));
```

Exercise 2: WorkflowTaskUpdateAfter

When the workflow task “Application Acceptance” is updated with the status of “Ready for Review”:

- Add an application fee to the record

Record ID: BLD14-00001

Menu Submit Assign Reset Calculate Hours Cancel

Task Details Sub Tasks (0)

Workflow Tasks

- Application Acceptance
- Application Review
- Permit Issuance
- Inspections
- Closure

Task Details - Application Acceptance

Status * Ready for Review

Department * Current Department Staff Building Department

Record ID: BLD14-00001

Menu Add Delete Void Invoice Invoice & Pay ReCalc Help

(0) Fee (1) Fee History (1) GIS (0) Inspections (1) Meetings (0) Organization Owner

Fee Calc. Factor: Job Value(Contractor)\$0.00 Fee Total \$50.00

Invoice #	Fee Item	Quantity	Fees	Status	Balance
3128	Application Fee	1	\$50.00	INVOICED	\$0.00

Exercise 2: WorkflowTaskUpdateAfter

Master Scripts 3.0 Solution

Script Name: WTUA:BUILDING/SCRIPT1/NA/NA

Script Code:

```
if (wfTask == "Application Acceptance" && wfStatus == "Ready for Review") {  
    addFee("APPLFEE","SCRIPT_TRAINING","FINAL",1,"Y")  
}  
  
if (wfTask == "Application Review" && wfStatus == "Approved") {  
  
    closeTask("Permit Issuance","Issued","Auto Issued via Script","");  
  
    email("saxthelm@accela.com","noreply@email.com","Permit Issued","Your permit  
application has been approved, your permit number is: " + capIDString);  
  
    editAppSpecific("Permit Expiration Date",dateAdd(null,180));  
  
    scheduleInspection("Building Inspection",30);  
}
```


Exercise 2: WorkflowTaskUpdateAfter

Master Scripts 2.0 Solution

Standard Choice: WTUA:Building/Script1/NA/NA

Script Code:

10	<code>wfTask == "Application Acceptance" && wfStatus == "Ready for Review" ^ addFee("APPLFEE","SCRIPT_TRAINING","FINAL",1,"Y");</code>
20	<code>wfTask == "Application Review" && wfStatus == "Approved" ^ closeTask("Permit Issuance","Issued","Auto Issued via Script","");</code>
30	<code>^ email("saxthelm@accela.com","noreply@email.com","Permit Issued","Your permit application has been approved, your permit number is: " + capIDString);</code>
40	<code>^ editAppSpecific("Permit Expiration Date",dateAdd(null,180));</code>
50	<code>^ scheduleInspection("Building Inspection",30);</code>

Exercise 3: WorkflowTaskUpdateBefore

When the workflow task “Application Review” is updated with the status of “Approved”, if the record has unpaid fees (balance due > 0):

- Stop the workflow from updating
- Display a message to the user: “Balance must be paid in **FULL** before moving forward.”

Record ID: BLD14-00001

Menu ▾ Submit Assign Reset Calculate Hours Cancel

Task Details Sub Tasks (0)

Workflow Tasks

- Application Acceptance
- Application Review**
- Permit Issuance
- Inspections
- Closure

Task Details - Application Review

Status *
Approved

Department * Current Department
Building Department

+

Record ID: BLD14-00001

Pay Apply Refund Void Generate Rec

(0) Payment Payment History Professionals (0) Ra

Total Invoice Amount: \$50.00 Terminal #

Total Payment: \$0.00 Cashier ID:

Total Balance: \$50.00 Date:

Amount Not Applied: \$0.00

EMSE Message List - Windows Internet Explorer

https://av.demo.accela.com/portlets/emse/EMSEMessage.do?module=Building

Cancel

Time	Event	Message
05:33:59 AM	WorkflowTaskUpdateBefore	Action Cancelled
		Balance must be paid in FULL before moving forward.
		Script WORKFLOWTASKUPDATEBEFOREV3.0

Exercise 3: WorkflowTaskUpdateBefore

Master Scripts 2.0 Solution

Standard Choice: WTUB:Building/Script1/NA/NA

10	<pre>wfTask == "Application Review" && wfStatus == "Approved" && balanceDue > 0 ^ cancel = true; showMessage = true; comment("Balance must be paid in FULL before moving forward.");</pre>
----	--

Master Scripts 3.0 Solution

Script Name: WTUB:BUILDING/SCRIPT1/NA/NA

```
if (wfTask == "Application Review" && wfStatus == "Approved" && balanceDue > 0) {  
    cancel = true;  
    showMessage = true;  
    comment("Balance must be paid in <strong>FULL</strong> before moving forward.")  
}
```

Exercise 4: PaymentReceiveAfter

After a payment is made, if the “Application Review” workflow task is active and all fees are paid in full (balance due = 0):

- Update the “Application Review” task with a status of “Fees Paid”.

Record ID: BLD14-00001

Menu ▾ Submit Reset Cancel Help

◀ (0) Payment Payment History Professionals (0) Random Aud

Generate Receipt:

Transactions	Amount
<input checked="" type="checkbox"/> Payment	\$50.00

Record ID: BLD14-00001

Pay Apply Refund Void Generate

◀ (0) Payment Payment History

Total Invoice Amount: \$50.00
Total Payment: \$50.00
Total Balance: \$0.00
Amount Not Applied: \$0.00



◀ c (0) Workflow Workflow History (1)

Workflow Tasks

- Application Acceptance
- Application Review**
- Permit Issuance
- Inspections
- Closure

◀ c (0) Workflow Workflow History (3)

Workflow Tasks

- Application Acceptance
- Application Review**
 - Fees Paid
- Permit Issuance
- Inspections
- Closure

There currently are no ad hoc tasks defined.

Task	Status
Application Acceptance	Ready for Review
Application Review	Fees Paid
Permit Issuance	
Inspections	
Closure	

Exercise 4: PaymentRecieveAfter

Master Scripts 2.0 Solution

Standard Choice: PRA:Building/Script1/NA/NA

10	<pre>balanceDue <= 0 && isTaskActive("Application Review") ^ updateTask("Application Review","Fees Paid","Fees paid in full on sysDateMMDDYYYY","");</pre>
----	---

Master Scripts 3.0 Solution

Script Name: PRA:BUILDING/SCRIPT1/NA/NA

```
if (balanceDue <= 0 && isTaskActive("Application Review")) {  
    updateTask("Application Review","Fees Paid","Fees paid in full on  
    sysDateMMDDYYYY","");  
}
```

Exercise 5: WorkflowTaskUpdateAfter

When the workflow task “Application Review” is updated with the status of “Approved”:

- Close the workflow task “Permit Issuance” with a status of “Issued”
- Schedule a “Building Inspection”
- Update the Permit Expiration Date ASI field to 180 days from the issue date
- Send an email notification to the applicant

Record ID: BLD14-00001

Menu Submit Assign Reset Calculate Hours Cancel

Task Details Sub Tasks (0)

Workflow Tasks

- Application Acceptance
- Application Review**
- Permit Issuance
- Inspections
- Closure

Task Details - Application Review

Status *
Approved

Department * Current Department
Building Department

Workflow Tasks

- Application Acceptance
- Application Review
- Permit Issuance**
 - Issued
- Inspections
- Closure

Inspections (1) Meetings (0) Organization

Sched Date	Inspection Type	Status
07/29/2014	Building Inspection	Scheduled

Reply Reply All Forward

Aaron Williams

Permit Issued

Your permit application has been approved, your permit number is: 14REC-00000005

App Specific Info App Specific Info Tables (0) Application History (6) Calendar

GENERAL INFORMATION

Width * 100 Feet (Number) Length * 100 Feet (Number)

Square Footage SqFt (Text)

Permit Expiration Date 01/25/2015

Exercise 5: WorkflowTaskUpdateAfter

Master Scripts 2.0 Solution

Standard Choice: WTUA:Building/Script1/NA/NA

10	<code>wfTask == "Application Acceptance" && wfStatus == "Ready for Review" ^ addFee("APPLFEE","SCRIPT_TRAINING","FINAL",1,"Y");</code>
20	<code>wfTask == "Application Review" && wfStatus == "Approved" ^ closeTask("Permit Issuance","Issued","Auto Issued via Script","");</code>
30	<code>^ email("saxthelm@accela.com","noreply@email.com","Permit Issued","Your permit application has been approved, your permit number is: " + capIDString);</code>
40	<code>^ editAppSpecific("Permit Expiration Date",dateAdd(null,180));</code>
50	<code>^ scheduleInspection("Building Inspection",30);</code>

Master Scripts 3.0 Solution

Script Name: WTUA:BUILDING/SCRIPT1/NA/NA

```
if (wfTask == "Application Acceptance" && wfStatus == "Ready for Review") {  
    addFee("APPLFEE","SCRIPT_TRAINING","FINAL",1,"Y")  
}  
  
if (wfTask == "Application Review" && wfStatus == "Approved") {  
  
    closeTask("Permit Issuance","Issued","Auto Issued via Script","");  
  
    email("saxthelm@accela.com","noreply@email.com","Permit Issued","Your permit application has  
been approved, your permit number is: " + capIDString);  
  
    editAppSpecific("Permit Expiration Date",dateAdd(null,180));  
  
    scheduleInspection("Building Inspection",30);  
}
```


Exercise 6: InspectionResultSubmitAfter

When a “Building Inspection” is resulted with a status of “Passed” and the “Inspections” workflow task is active:

- Close the “Inspections” workflow task with a status of “Passed”
- Close the “Closure” workflow task with a status of “Closed”

Record ID: BLD14-00001

Menu Save Reset Cancel Help

Record Number
BLD14-00001

Status *
Passed

Department * Current Department
Administrator

Result Comment Standard Comment

Inspection Type *
Building Inspection

Inspection Date *
07/29/2014

Inspector * Current User
Aaron Williams

+

Workflow Tasks

- Application Acceptance
- Application Review
- Permit Issuance
- Inspections
- Closure

Workflow Tasks

- Application Acceptance
- Application Review
- Permit Issuance
- Inspections
- Closure

Task	Status
Application Acceptance	Ready for Review
Application Review	Fees Paid
Permit Issuance	Issued
Inspections	Passed
Closure	Closed

Exercise 6: InspectionResultSubmitAfter

Master Scripts 2.0 Solution

Standard Choice: IRSA:Building/Script1/NA/NA

10	<pre>inspType == "Building Inspection" && inspResult == "Passed" && isTaskActive("Inspections") ^ closeTask("Inspections",inspResult,inspComment,""); closeTask("Closure","Closed","Auto-closed via inspection result script","");</pre>
----	--

Master Scripts 3.0 Solution

Script Name: IRSA:BUILDING/SCRIPT1/NA/NA

```
if (inspType == "Building Inspection" && inspResult == "Passed" && isTaskActive("Inspections")) {
    closeTask("Inspections",inspResult,inspComment,"");
    closeTask("Closure","Closed","Auto-closed via inspection result script","");
}
```