



Accela

LEARNING

EXTENDING THE CIVIC PLATFORM WITH JAVASCRIPT

CERTIFICATION SERIES |
BRONZE

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COURSE AGENDA

PART 2

COURSE AGENDA

- Group exercises
- DIY exercises
- Testing
- Conclusion

scriptTester.js

ENVIRONMENT TEST

scriptTester.js FIRST RUN

HANDS-ON EXERCISE

- Load `scriptTester.js` file into editor of choice
- Locate a record (AltID) for testing `scriptTester.js`
- Use the AltID to populate `myCapID` variable of `scriptTester.js` line 1
- Copy entire `scriptTester.js` contents and paste into Script Text window in Script Test

scriptTester.js NEW CODE

HANDS-ON EXERCISE GOAL

In this exercise, you will work with the Script Tester, which empowers developers to code scripts outside of standard choices for diagnostic purposes

scriptTester.js NEW CODE

HANDS-ON EXERCISE

- Within your open `scriptTester.js` file, confirm the `runEvent` variable is set to false
- Locate the “User code goes here” comment, with its Catch / Block entry
- Within that entry, refer to the Scripting Guide to add a new inspection on your record

scriptTester.js NEW CODE

HANDS-ON EXERCISE

- Submit your new script
- Browse to the Inspection portlet and verify your new been created
- Review the Master Script function list and select one functions to perform on this record
- Update your test script in order to trap any errors

GROUP EXERCISE 1

VALIDATING APPLICATION DATA

GROUP EXERCISE 1 DATA

- EVENT: `ApplicationSubmitAfter`
- Description: Upon Application Submittal
- ACTION: If the ASI field “Type of Work” is equal to “Alteration”, with a comment to check for Historic District
- FUNCTION(S): `comment()`
- RECORD: Building/Residential/Electrical/NA

VALIDATING APPLICATION DATA

GROUP EXERCISE 1 – UNDERSTAND THE DEBUG

Time	Event	Message
06:57:45 AM	ApplicationSpecificInfoUpdateAfter	EMSE Script Framework Versions EVENT TRIGGERED: ApplicationSpecificInfoUpdateAfter SCRIPT EXECUTED: APPLICATIONSPECIFICINFOUPDATEAFTERV3.0 INCLUDE VERSION: 3.1.28 SCRIPT VERSION : 3 GLOBAL VERSION : 3

- Called event
- Executed script
- Additional script information

VALIDATING APPLICATION DATA

GROUP EXERCISE 1 – UNDERSTAND THE DEBUG

- Event-affected Record ID
- Standard declared variables and their values

EMSE Script Results for BUSA15-00003

```
capId = class com.accela.aa.aamain.cap.CapIDModel
cap = class com.accela.aa.emse.dom.CapScriptModel
currentUserID = ADMIN
currentUserGroup = LicensesAdmin
systemUserObj = class com.accela.aa.aamain.people.SysUserModel
appTypeString = Licenses/Business/Nightclub-Bar/Application
capName = bob
capStatus = In Review
fileDate = 11/16/2015
fileDateYYYYMMDD = 2015-11-16
sysDate = class com.accela.aa.emse.util.ScriptDateTime
parcelArea = 0550800.0
estValue = 0
calcValue = 0
feeFactor = CONT
houseCount = 0
```

VALIDATING APPLICATION DATA

GROUP EXERCISE 1 – UNDERSTAND THE DEBUG

- Custom Fields, Custom List Data, and Parcel attributes that are pre-populated by the script

```
{Business Ownership Type} = Partnership  
{Legal Business Name} = bob stuff  
{Doing Business As (DBA) Name} = Jake  
{Sales Tax Number} = null  
{Business Activity Code (NAICS)} = null  
{Description of Business} = selling and other  
{Business Open Date} = 11/01/2015  
{Female Owned} = No  
{Minority Owned} = Yes  
{Non-Profit Business} = Yes  
{Number of Seats} = null  
{Number of Employees} = 10  
{Gross Annual Sales} = 540000  
{Alcoholic Beverages} = No  
{ABC License Type} = null  
{ABC License Number} = null  
{Tobacco Products or Paraphernalia} = No  
{Smoking Lounge} = No
```

VALIDATING APPLICATION DATA

GROUP EXERCISE 1 – UNDERSTAND THE DEBUG

```
Executing: ApplicationSpecificInfoUpdateAfter, Elapsed Time: 1 Seconds  
ADMIN : ApplicationSpecificInfoUpdateAfter : #02 : Criteria : true  
ADMIN : ApplicationSpecificInfoUpdateAfter : #02 : Action : branch("ASIA:" + appTypeArray[0] + "/*/*/*")  
Executing: ASIA:Planning/*/*/*, Elapsed Time: 1 Seconds  
Finished: ASIA:Planning/*/*/*, Elapsed Time: 1 Seconds
```

Stepping through the script controls if standard choice execution is enabled

VALIDATING APPLICATION DATA

GROUP EXERCISE 1 – UNDERSTAND THE DEBUG

וועב-זייטל - פארמאגט א סעקציע וואס שטימט אויף דעם

Executing script : ASA:Building/Electrical/Residential/NA, Elapsed Time: 0.047 Seconds

Please check GIS maps for Historical District

Successfully added condition (Utility Locate)

Script APPLICATIONSUBMITAFTERV3.0

Or lists the scripts executed if Script execution is enabled

VALIDATING APPLICATION DATA

GROUP EXERCISE 1 – UNDERSTAND THE DEBUG

Executing script: ASA:Building/Electrical/Residential/NA, Elapsed time: 0.040 seconds

Please check GIS maps for Historical District

Successfully added condition (Utility Locate)

****ERROR**** "Imnop" is not defined. In ASA:Building/Electrical/Residential/NA Line 13

Stack: at script#47(eval)#14(eval):13 at script#47(eval):14 (include) at script#47(eval):14 (doScriptActions) at script:123

Script APPLICATIONSUBMITAFTERV3.0

Displays any capture script errors and the line of failure in error stack

GROUP EXERCISE 2

ADD CONDITION TO RECORD

GROUP EXERCISE 2

- Description: Upon Application Submittal
 - Apply a Building condition to the application
 - Record Type: Building/Residential/Electrical/NA
 - Condition Type & Name: Building Permit, Utility Locate
- What event do we use? Function? Function parameters?

GROUP EXERCISE 3

EDIT CUSTOM FIELD FROM APP DATA

GROUP EXERCISE 3

- Description: Upon application submittal
 - Update the field “Area” with Custom Fields - Height x Width
 - Record Type: Building /Sign/Permanent /NA
- Custom Field values are returned to EMSE scripts as text values. Why does this exercise work?

INDIVIDUAL EXERCISES

ASSESS FEE

INDIVIDUAL EXERCISE 1

- **Event:** WorkflowTaskAfterUpdate
- **Criteria:** Upon workflow task “Application Submittal” being updated to Req”
- **Action:** Assess / invoice Plan Check Fee
 - Fee Schedule is “BLD_GENERAL” and Fee Item is “BLD_030”, Payment Invoice is Y
- **Record Type:** Building/Residential/Electrical/NA

BALANCE PREVENTS WORKFLOW

INDIVIDUAL EXERCISE 2

- **Event:** `WorkflowTaskUpdateBefore`
- **Criteria:** Workflow task “Permit Issuance” updates to “Issued”
- **Criteria:** Check record balance, if positive and Custom Field “Job Cost” is
- **Action:** Prompt user with amount due and cancel transaction
 - `Master Script` sets the balance due in variable `balanceDue`
- **Record Type:** Building/Residential/Electrical/NA

ISSUANCE AUTOMATION

INDIVIDUAL EXERCISE 3

- **Event:** WorkflowTaskUpdateAfter
- **Criteria:** Upon workflow task Permit Issuance being updated to “Issued”
- **Action:** Update ASI field “Permit Expiration Date” to 180 days out
- **Action:** Schedule “Electrical Final” 15 work days from today
- **Record Type:** Building/Residential/Electrical/NA
 - Use your ID for Inspector

INSPECTION PASSED

INDIVIDUAL EXERCISE 4

- **Event:** `InspectionResultSubmitAfter`
- **Criteria:** If inspection type “Electrical Final” results to “Passed” or “Partial”
- **Action:** Close the workflow task “Inspection” with status of “Final Inspection” and comment of the inspection result comment
- **Record Type:** Building/Residential/Electrical/NA

INSPECTION FAIL > ENFORCEMENT

INDIVIDUAL EXERCISE 5

- **Event:** `InspectionResultsSubmitAfter`
- **Criteria:** If “Electrical Final” resulted as “Rejected”
- **Action:** Update task “Inspection” to status of “Note” and task comment to
- **Action:** Create a child Enforcement/Incident/Building/Sub-Standard Property
- **Action:** Update Custom Field “Source of Complaint” with value “Staff”

INSPECTION FAIL > ENFORCEMENT

INDIVIDUAL EXERCISE 5

- **Action:** Update Custom Field “Location” with inspection comments
- **Action:** Schedule “Initial Investigation” on child cap for today
 - Function(s): `updateTask()`, `createChild()`, `editAppSpecific()`, `scheduleInspection()`
 - Note: `createChild()` returns the `capID` of the new cap, Inspections and workflow do not have an optional `capID` parameter
 - Consider: How do you handle this?
- **Record Type:** Building/Residential/Electrical/NA

RESOURCES & WHAT'S NEXT FOR YOU

RESOURCES

FOR MORE INFORMATION OR WHERE TO ASK QUESTIONS

- Accela Community
 - [Answers](#)
 - [Help and Training](#)
 - [Groups - Scripting](#)
- [Scripting Guide](#)
- [Configuration Guide](#)

WHAT'S NEXT FOR YOU

INTRODUCTION TO SCRIPTING 3.0

- Scripting Quiz (today)
 - 30 multiple choice and true / false questions = 25%
- Final Assessment
 - (4) Scripts to write, load and test = 75%
 - Have 2 weeks to complete the work (and do your day job)
- Certification
 - Combined score of 70% to pass



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