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OUTLINE

- Introduction
- Technical part logistics
- Syllabus



INTRODUCTION

• Libor Nekula

- ESF Graduate
 - Economic Information
 Systems
 - Business
 Management

- 4 years technical consultant in Y Soft
- 2 years senior technical consultant in NS
 - Consultant + developer
 - Code review owner
 - Technical interviewer

2006	2012	2016+



LOGISTICS OF TECHNICAL PART

6 Sections

- 6 Assignments
 - 5 points per assignment
 - -1 extra point when submitted via Git repository
- Final written exam/test
 - -25 points



TECHNICAL PART SYLLABUS





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AGENDA

- General Overview NS Anatomy
- Initial setup
- Custom fields
- Custom forms
- Custom records





NetSuite Anatomy



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ORACLE + NETSUITE

WALKTHROUGHS

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INITIAL SETUP

- Show internal ids
 - Home icon > Set Preferences
- Custom Records
 - Setup > Company > Enable features > SuiteCloud

	Defaults
eatures > SuiteCloud	DOWNLOAD PDF FILES USE MULTICURRENCY EXPENSE REPORTS ADDRESS MAPPING TYPE Google Show INTERNAL IDS ONLY SHOW LAST SUBACCOUNT
nable Features Save Cancel Reset	
ompany <u>A</u> ccounting <u>T</u> ax T <u>r</u> ansactions <u>i</u> tems & inventory <u>E</u> mple EW SUITECLOUD <u>TERMS OF SERVICE</u> .	ployees CRM Analytics Web Presence SuiteCloud
SuiteBuilder	
ITEM OPTIONS ASSIGN CUSTOM TRANSACTION ITEM OPTION FIELDS TO THE LINE ITEMS OF YOUR TRAN	RANSACTION RECORDS. BY ENABLING THIS FEATURE, YOU AGREE TO SUITECLOUD TERMS OF SERVICE.
CUSTOM RECORDS COLLECT INFORMATION SPECIFIC TO YOUR BUSINESS THAT CAN BE INTEGRATED WITH T	'H STANDARD NETSUITE RECORDS. BY ENABLING THIS FEATURE, YOU AGREE TO <u>SUITECLOUD TERMS OF SERVICE</u> .
ADVANCED PDF/HTML TEMPLATES	ENABLING THIS FEATURE, YOU AGREE TO SUITECLOUD TERMS OF SERVICE.

Restrict View Custom Preferences





WT I - Creating a new custom list and subtab

• Customization > Forms > Subtabs

• Customization > Lists, Records, Fields > Lists

https://system.netsuite.com/app/help/helpcenter.nl?fid=section_n2852278.html



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WT II - Creating a new custom field

- Customization > Lists, Records, Fields >
 - Item
 - Entity
 - Transaction

BEST PRACTICE FOR INTERNAL ID

include _acen_sec

Example:

_acen_sec_voucher_code

https://system.netsuite.com/app/help/helpcenter.nl?topic=EDIT_CUSTENTITYFIELD

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ORACLE + NETSUITE

WT III - Creating custom record

• Customization > Lists, Records, Fields > Record Types



https://system.netsuite.com/app/help/helpcenter.nl?topic=EDIT_CUSTRECORD





WT IV - Creating custom Form

	← → List S earch <u>Customize</u> Customize Form New Bday Heid	
BEST PRACTICE FOR INTERNAL	New Column Field New Item Option	
include _acen_sec	nary OTAL 161.88 OUNT ITEM	
Example:	OTAL 0.00 CERTIFICATE	
_acen_sec_voucher_code	L 161.88	
		LEAD SOURCE
		PARTNER

https://system.netsuite.com/app/help/helpcenter.nl?topic=EDIT_CUSTENTITYFIELD



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WT V – Creating a new script

Search					Q,	Upload Script File Reset Cancel Create Script Record	Save Cancel Reset
cuments	Setup	Customization Suppo	ort			SCRIPT FILE *	ТҮРЕ
		Customization Manager	į			ns_mr_cleanPendingCIs.js	Map/Reduce
		Lists, Records, & Fields	►				
		Forms	÷				ID
		Scripting		Scripts	New		API VERSION
		Workflow	Þ	Script Deployments			2.0
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	custom	script_nsts_ci_validation_cs		Script Execution Logs	Deployments		•
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	custom	script_sdr_cs_relationships		1.0	Deployments		
	custom	script_sdr_cs_salesorder_finan	ce	1.0	Deployments		Save T Cancel Reset



VIEWING FIELD IDS

	This XML file does not appear to have any style information asso
• Via field help	<pre>• &xml=t</pre>
Invoice 885249 ABC Marketing Inc. Edit Back Authorize Return Accept Payment Primary Information Field Help NetSuite increases the largest invoice number by one. You can type another number. The next invoice number by one. You can type another number. The next invoice number will revert to the standard pattern. Field ID: tranid	<pre>v<_csrr> r_Q-14td5- dIzOLuFTuANBLNgKypAsi232uJEfI2j1c4SSk9mPjRTEERh9euBl <!--_csrf--> <_eml_nkey_>172296206<!--_eml_nkey_--> <account>129</account> <amountpaid>0.00</amountpaid> <amountpaid>0.00</amountpaid> <amountremaining>161.88</amountremaining>totall <balance>132315.16</balance> <balreadyrefunded>F</balreadyrefunded> <balreadyrefunded>F</balreadyrefunded> <balledtadrssevexbc billaddr1="" inc<="" marketing=""> v<billaddress> <billaddress> <billaddress> <billaddress> <billaddress> <billaddress>/billcity> <billaddress>/billcity> <billingaddress 1011city=""> <billingaddress 20111city=""> <billingaddress 20111city=""> <billoverride>< <billingaddress 20111city=""> <billoverride> <billingaddress 20111city=""> <billoverride> <billextertx billstate=""> <billextertx billstate=""> <billextertx billstate=""> <billextertx billity=""> <billextertx billity="">> <billextertx billity="">>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>></billextertx></billextertx></billextertx></billextertx></billextertx></billextertx></billextertx></billextertx></billextertx></billextertx></billextertx></billextertx></billextertx></billextertx></billextertx></billextertx></billextertx></billextertx></billextertx></billextertx></billextertx></billextertx></billextertx></billextertx></billoverride></billingaddress></billoverride></billingaddress></billoverride></billingaddress></billingaddress></billingaddress></billingaddress></billingaddress></billingaddress></billingaddress></billingaddress></billingaddress></billingaddress></billingaddress></billingaddress></billingaddress></billingaddress></billingaddress></billingaddress></billingaddress></billingaddress></billingaddress></billaddress></billaddress></billaddress></billaddress></billaddress></billaddress></billaddress></balledtadrssevexbc></pre>





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MINOR CHANGES IN LOGISTICS

- First Assignment deadline Fri, Nov 9, 2018
- Submissions done on or before Tue, Nov 6, 2018 for 1 bonus point
- 5 Late Days for everyone applicable to Assignments 2-6
 - 5x 1 day later
 - -1x 5 days later



INITIAL QUICK SETUP

- Show internal ids
 - Home icon > Set Preferences
- SuiteFlow
 - Setup > Company > Enable features > SuiteCloud
- Invoice in Advance of Fulfillment
 - Setup > Accounting > Accounting Preferences > Order Management



INSTALLING A BUNDLE

• MPH_ACEN_I - 256797



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Search & Install Bundles

Search

Basic | Advanced

LEAVE THE KEYWORDS BOX BLANK AND CLICK SEARCH TO VIEW THE MOST POPULAR SUITEAPPS

KEYWORDS

256797

Installation Terms of Service

NAME	BUNDLE ID	VERSION	MANAGED	COMPANY NAME
MPH_ACEN_I	256797			Netsuite Czech Republic, s.r.o.



A BIT OF THEORY

- What is SuiteFlow?
- Workflow elements
 - States
 - Transitions
 - Actions
 - Triggers



Triggers



NEW WORKFLOW

Customization > Workflow > Workflows > New

Workflow

Necessary values

NAME *	DESCRIPTION
Approve and Invoice	
ID	
customworkflow1	OWNER
RECORD TYPE	Cathy Cadigan Cathy Cadigan
Transaction	
SUB TYPES *	EXECUTE AS ADMIN
Advanced Intercompany Journal Entry	RELEASE STATUS
Cash Refund	4 Released
Cash Sale	KEEP INSTANCE AND HISTORY
Check	5 💽 ENABLE LOGGING
· · · · · · · · · · · · · · · · · · ·	INACTIVE



NEW WORKFLOW II

 Necessary values 	Initiation		
,	● EVENT BASED		
	Event Definition		
	ON CREATE	USE	CUSTOM FORM
	TRIGGER TYPE 3 - All -	CONDITION	
	EVENT TYPES		1
		SAVED SEARCH CONDITION	•



WALKTHROUGHS – Create and deploy a new workflow



SIMPLE WORKFLOW -SET DEPARTMENT AND SHOW CONFIRMATION

MULTI-STATE WORKFLOW -CUSTOM APPROVE





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AGENDA I - SUITESCRIPT

• NS Data architecture

- Client Scripts
- User Event Scripts





AGENDA II – SUITESCRIPT TODAY

- NS Data architecture
- Client vs Server
- Demo + Script anatomy
- Walkthroughs



DEMO - OUR FIRST SCRIPT – HELLO WORLD!

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Search & Install Bundles

Search

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ENTRY POINTS

Page init

Validate Field

• Field changed

- Save record
- HAS TO RETURN BOOL (T/F) value



WALKTHROUGH – SAMPLE SCRIPT CREATION AND DEPLOYMENT





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AGENDA – SUITESCRIPT TODAY

- Example of what can be done with SuiteScript
- Server side scripts User Event + triggers
- Demo + Script anatomy
- Walkthrough



EXAMPLES

- RESTlet
- Suitelet + Client + Map/Reduce



USER EVENT

- Before Load
- Before Submit
- After Submit



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Search

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MPH_ACEN_I	256797			Netsuite Czech Republic, s.r.o.



WALKTHROUGH – SAMPLE SCRIPT



PRINTING NS DOCUMENTS

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DESCRIPTION OF THE OWNER

PRINTING AND ADVANCED PDFS

• Printing documents in NetSuite is simple

Invoice 🤉



Please provide your feedback by contacting us on email address feedback@nsdisc.com



PRINTING SETUP AND TEMPLATE CUSTOMIZATION

- 1. Let's customize an invoice PDF template
 - -WYSIWYG
 - Freemarker https://freemarker.apache.org/docs/index.html
- 2. Create a new transaction form to use our template for printing
 - Select printing type
 - And template

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J2052_508		
ADVANCED	O BASIC	
ce PDF/HTM	L Template	-
	D ADVANCED	ADVANCED BASIC



INTRO TO ADVANCED PDF/HTML TEMPLATES

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Advanced PDF/HTML Templates

- Advanced PDF/HTML is a template-based model for printing transactions
- Output is either HTML or PDF (we will focus on the PDF output)
- Feature supports an alternate model for customizing printed transactions
- The template editor uses FreeMarker-based syntax



How does it work?

The PDF printing subsystem uses a combination of two 3rd party libraries

- FreeMarker scripting in XML, generates static XML for BFO
- BFO (Big Faceless Report Generator) Freemarker → PDF





BASIC JAVASCRIPT/Freemarker - EXPRESSIONS

- Expressions are usually surrounded by \${}
- Variable is accessed by its name \${record.total}
 - Conditions <# if record.total > 0 >
- Support for map keys and collection indexes \${person.phones[1]}
- Logical operations: &&, ||, !, ==, !=, <, >, <=, >=



BASIC JAVASCRIPT/Freemarker - CONDITIONS

- <#if expression>, <#elseif expression>, <#else>
- <#if> is pair tag, it must be closed
- Character < must be escaped or surrounded by (), <#if x > 1 > vs. <#if (x > 1)>

<#if x == 1> "x is 1" <#elseif x == 2> "x is 2" <#elseif x == 3> "x is 3" </#if>



UPLOAD AN IMAGE

• Documents > Files > Images > New

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	Documents C	verview				
	Files		File Cabinet	>		
	Templates	Þ	SuiteScripts			
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WALKTHROUGH – SAMPLE PDF



THANK YOU FOR ATTENTION!

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