# <sup>ogo</sup> PLATFORM TAILOR

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#### 1. STARTING TO USE

#### 1.1. Purpose of Using Logo Platform Tailor

- You can customize tree structure that you use in j-guar, and you can add new modules.
- You can add new forms to j-guar interface and add new fields to the existing forms.
- You can add new queries.
- You can add a new report or expand existing reports.
- You can integrate other systems with j-guar. To do so, you can either use standard Web services or you can add new Web Services.
- You can add new methods that are specific to the project in use of Excellent.
- You can create new batch operations.

#### 2. CREATING A PROJECT

#### 2.1. Steps to creating a new project

The first step to customization is to create a new customization project. You use "Logo Customization Project" wizard to create a project in LPT. Right click on Package Explorer, and then click **New** > **Other** on the list.

New		•	🏄 Java Project
Go Into			Project
Open in New Window			🖶 Package
Open Type Hierarchy	F4		
Show In	Alt+Shift+W	•	🐨 Interface
Fin carrie	auto a		-
Copy	Ctrl+C		6 Enum
論 Copy Qualified Name			Annotation
💼 Paste	Ctrl+V		😂 Source Folder
💢 Delete	Delete		b Java Working Set
Remove from Context	Ctrl+Alt+Shift+Down		😂 Folder
Build Path	Carriacionicioomi		😭 File
Source	Alt+Shift+S		📑 Untitled Text File
Refactor	Alt+Shift+T	•	📑 JUnit Test Case
× •		-	👕 Task
import			-
🖾 Export			📸 Example

Wizards that you can use for customization are listed under Logo Platform Tailor folder in the window that opens. You must select a wizard from the list to create a project.

New			×
elect a wizard 62			\$
<u>N</u> izards:			
type filter text			
> 🗁 JPA ✔ 듣 Logo Platform Tailor			^
E LPT Browser Form			
Both LPT Business Object			
LPT Database Trigger			
LPT Easy Development Wizard LPT Event Handler Class			
IPT Form Object			
LPT Navigation Menu Tree			
📫 LPT Profile			
다 LPT Project			
PI Query Object			
DT Report Class			
LPT Table			
> 🦻 Maven			
> 🗁 Plug-in Development			
> 🗁 Remote System Explorer			
> 🦻 Server			
> 🔁 SQL Development			
> 🗁 John			
> > User Assistance			
> 🗁 Web			
> 🗁 Web Services			
> 🤁 XML			
> 🗁 Examples			~
	Finish	Cano	
(?) < Back Next >			

Continue by writing customization project name that you want to create in wizard.

• - · ×	🖲 – 🗆 X
Logo Customization Project This wizard creates a new LBS Customization project with the given name under the given directory.	Java Settings Define the Java build settings.
Project name:       Sample         Use default location       Location:         C:UAVA\_JGUAR_EASY_TEST\LPT\ws\Sample       Browse         Choose file system:       default	Bource       Projects       Libraries       Vorder and Export         Source folders on build path:       Add Folder       Add Folder         > @B Sample/src (new)       Add Folder       Link Source         Edit       Edit
6	Allow output folders for sourge folders Default output folder: Sample/bin Browse
(?) < <u>Back</u> Next > <u>Finish</u> Cancel	Cancel

Logo Customization Project The library path and other parameters will be used to customizatio templates.	n create object	LOGO.
Library directory: C:\JAVA\_JGUAR_EASY_TEST\LPT\ws\logo\Web	Content\Definitions	Browse
N		
2		
< Back         Next >	<u>F</u> inish	Cancel
	Eman	cancer

\* LbsDefinitions.jar is a version dependent jar file that keeps all object definitions of j-guar product. Up-to-date LbsDefinitions.jar file can only be created via <u>http://localhost:8080/logo/Status</u>

#### 2.2. Project Settings

The value that you see in Project GUID field indicates the unique ID of the project. Since this value will be needed when coding, it is kept in **ProjectGlobals** file under SRC folder of the project.



#### 2.3. Connection Settings

You must adjust connection settings to have Customization Project connect with j-guar product. Right click on the project and select **Properties**. On the left of project properties window, expand **Logo** and then **Customization** option. Click **Deploy**. When opened initially, connection information will be shown empty. Click **Restore Defaults** option to bring default connection settings. You can edit these settings and then click **Apply** button.

Properties for Sample		6	– 🗆 X
type filter text	Deploy	20	⇐ • ⇔ • •
> Resource Builders	Logo Customiz	ation deployment settings.	
Java Build Path	Server URI:	http://localhost:8080/logo/	
> Java Code Style > Java Compiler	<u>U</u> ser Name:	admin	]
> Java Editor	Password:	•••••	]
Javadoc Location ✔ Logo		Silent Deploy	
<ul> <li>Customization</li> </ul>		Deploy only UI language forms	
Deploy Languages Project Facets	Import/Export:	☐ <u>G</u> enerate Import/Export Class Files	
Project References Run/Debug Settings	Test Settings	Remove This Customization	
> Task Repository	<u>_</u> est settings		
Task Tags > Validation			
WikiText			
			Restore <u>D</u> efaults <u>Apply</u>
?			OK Cancel

You can also check if connection is successfully established with the specified settings by clicking **Test Settings** button. You receive a warning messaging that informs you about the status of connection.

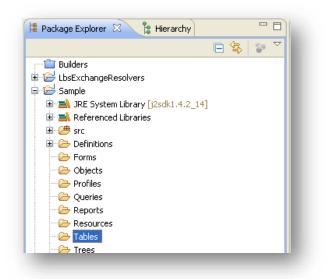
**Note:** Note that server must be open to test connection.



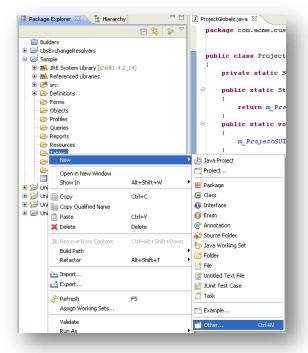
#### 3. FOLDERS IN THE PROJECT AND HOW TO USE THEM

#### 3.1. Tables

Tables are kept in **Tables** folder in the customization project.



Let's see an example of how to create tables. In this example, we will make a table definition to use in defining machines. To do so, let's right click on Tables folder and click **New** > **Other** in the menu to open wizards list.



Select Custom Table in this window and click Next. In the next window, you'll be prompted to enter a name for the table.

**Note:** The name you enter for table at this step is NOT the name of the table that will be created in database. It is only the name of the table definition.

Select a wizard	Logo Customization - New Custom Table Wizard         This wizard creates a new custom table for data persistance.
Wizards:         >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	Enter or select the parent folder: Sample/Tables
(?) < Back Next > Einish Cancel	? < <u>Back</u> Next > <u>Finish</u> Cancel

The name of the table that should be created in database is entered in **Physical Name Prefix** field in the window that opens after clicking **Next** button. You can designate whether this table is a firm and/or period table in the small window that will open after clicking **Name Parameters** button.

0					_	ΟX	٢								Х
Logo Customization Provide table prope	6		Logo Customization - New Custom Table Wizard Provide table properties and field definitions.												
Provide table prope Table Name Physical Name Database Name Record Info Column Search LOGICALREF	CTMachineCo Machinecode X_Machineco	ode : :	Primary K	Name Param	eters Description Logical reference	×	Provide table proper Table Name Physical Name Database Name Record Info Column Search	CTMachineCode MachineCode X_MachineCo	ode e ide	Primary K	Name Parameters  Select Physical Na  Please select the ph Search Name firm set period new_period	ysical name varia	bles from bel	× w	~
?			< <u>B</u> ac	k <u>N</u>	ext > <u>Finish</u>	Cancel	· · · · · · · · · · · · · · · · · · ·				< Back Net	0 Select t>	Canc	el Cancel	

"Logicalref" column is the primary key column that is in all tables of j-guar application; for this reason, it is generated automatically for each table that is created.

We add two columns named **Code** and **Description**, and click **Finish** button to complete table generation operation.

0							×	
Logo Customization - New Custom Table Wizard Provide table properties and field definitions.								
Table Name CTMachineCode								
Database Name	X_\$V(firm)_Ma	achineCode		<u>N</u> ame Param	eters			
Record Info Column	s 🗌							
Search			Name				$\sim$	
Name	Туре	Size	Primary K	Allow Null	Desc	ription		
LOGICALREF	integer	4	true	false	Logi	cal refere	nce	
CODE	string	30	false	false				
DESCRIPTION	string	30	false	false				
<							>	
< Back     Next >     Finish     Cancel								

Note: You must update customization tables in j-guar Administrator for tables to be created in database physically.

#### 3.2. Objects

Two-way data transaction between forms and tables is performed by objects. It is safe to say that Objects form a layer between tables and forms. There are two types of object in j-guar:

- Business Objects
- Custom Business Objects

The difference between these object groups is that Business Objects belong to j-guar and Custom Business Objects indicate the new objects that are generated by the person who developed the customization.

#### 3.2.1. Creating a new object

We created a table for Machine Codes in section <u>3.1</u>. Now, let's give an example by making an object definition for this table.

Right click on Objects folder. Then click New > Other in the menu to open Wizards window.



À Referenc 🕮 src	ed Libraries					
src > Definition	к					
Forms						
P Quinte				.10		
🥏 P 💻	W .		-	_	Java Project	
	en in New Window				Project	
⇒R SH	ow In	Alt+Shift+W	•	₿	Package	
р т Э т 🗎 Со	DV	Ctrl+C		C	Class	
	py Qualified Name			Ø	Interface	
🖻 V 🚠 pa		Ctrl+V		G	Enum	
💷 P 🥃 👝		Delete		@	Annotation	
Inity A De			-	<b>6</b> °	Source Folder	
	move from Context ild Path	Ctrl+Alt+Shift+Down	۱,	Ь	Java Working Set	
la ibu	iid Path factor	Alt+Shift+T	1		Folder	
	a dettor	ACTORICET	-	Ľ	File	
迠 In	port			B	Untitled Text File	
🛃 Ex	port			E	JUnit Test Case	
🛷 Re	fresh	F5		Ċ	Task	
	sign Working Sets				Example	
	lidate				Other	Ctrl+N

We mentioned that Custom Business Objects are the new objects that are created by the person who performs the customization. Therefore, we select **LPT Business Object** and click **Next**. In the next window, we'll be prompted to enter a name for the object we want to create. We enter a name for our object and click **Next**.

New -		×	S X
Select a wizard			Logo Customization - New Custom Business Object Wizard This wizard creates a new custom business object for data manipulation.
Wizards: type filter text > ▷ ▷ JAXB > ▷ JPA ∨ ▷ Logo Platform Tailor		^	Enter or select the parent folder: Sample/Objects Comparison of the parent folder: Comparison of the par
LPT Browser Form LPT Business Object LPT Database Trigger LPT Essy Development Wizard LPT Form Object LPT Form Object LPT Navigation Menu Tree LPT Profile LPT Project LPT Query Object LPT Report Class LPT Report Class LPT Report Layout LPT Rabit LPT Class			<ul> <li>➢ FomTemplates</li> <li>➢ Objects</li> <li>➢ Ouries</li> <li>➢ Queries</li> <li>➢ Reports</li> <li>➢ Resources</li> <li>➢ src</li> <li>➢ Tables</li> <li>➢ Trees</li> <li>➢ WebContentExtensions</li> <li>&gt; ➢ Servers</li> <li>&gt; ➢ TDV</li> </ul>
> 😓 Maven > 🗁 Plug-in Development > 🔁 Remote System Explorer		~	File name: CustomBusilbod Advanced >>
6			·
(?) < Back Next > Einish	Cancel		(?) < <u>Back</u> <u>Next</u> Einish Cancel

Let us proceed without making any selection in the next window by clicking **Next** button. Now, we need to enter the table to which the object we are creating will be linked. At this step, we select CTMachineCodes table that we created in section <u>3.1</u>. After selecting the table, system will display the columns of this table in the grid on screen. If there is any column that you do not want to include in the object you are creating, you must uncheck this column and then click **Next** button.

Logo Customization - New Custom Business Object Wizard	Logo Customization - New Custom Business Object Wizard
If you want to use a business object as a template, please select the source business object. Source Object Name  NONE> Browse Objects	Provide business object table properties.  Table Name MachineCodes   MachineCodes  LOGICALEE MMAdditionalTaxetais  LOGICALEE MMAdditionalTaxetais  CODE MMAcsotConfigAgs  DESCRIPTION
	Select All Deselect All
()         < Back         Next >         Einish         Cancel	? <gack< td="">         Next &gt;         Einish         Cancel</gack<>

We proceed without making any selection in the next window by clicking **Next** button. We reach the final page of the wizard. Click **Finish** button without making any operation and end the wizard.

#### 3.2.2. Expanding an existing product object (Extension)

In this example, let's see how to expand an AR/AP card object by adding a field. Right click on Objects folder. Click **New** > **Other** in the menu to open Wizards window.

JRE System Library [j2sdk1.4	4.2_14]			
Referenced Libraries				
src Definitions				
> Forms				
Objection of the second s				
P New		🛃	Java Project	
Open in New Window		2	Project	
R Show In	Alt+Shift+W	•	Package	
▶ R ▶ T 🗈 Copy	Ctrl+C	Ģ	Class	
T 🔝 Copy Qualified Name	carre		Interface	
Maste	Ctrl+V	-	Enum	
P 🐱 Dalaha	Delete	ø	Annotation	
nity		- U	Source Folder	
ity 🔔 Remove from Context	Ctrl+Alt+Shift+Dow		Java Working Set	
dia Pacifi		- H -	Folder	
Refactor	Alt+Shift+T		File	
🚵 Import				
🛃 Export		E	JUnit Test Case	
🔗 Refresh	E5	7	Task	
Assign Working Sets		<b>F</b> 9	Example	
Validate				
Run As		, 🖻	Other	Ctrl+N

As in the previous example, we select **LPT Business Object** and click **Next**. In the next window, we give a name for our object, and click **Next** button to open the next page.

New	D X	]   🗃 — — — ×
Select a wizard		Logo Customization - New Custom Business Object Wizard This wizard creates a new custom business object for data manipulation.
Wizards:	^ ~	Enter or select the parent folder: CourseProject/Objects Profiles Queries Reports Se Resources Se Src Tables Trees Se PFOK FirstLPTSampleProj Se Jepok FistLPTSampleAroj Se Jepox File name: CBOMachineCodes.lbod Advanced >>
	Cancel	Image: Second

We proceed without making any selection in the next window by clicking **Next** button. Now, we select a table to which our object will be linked. After selecting the table, system will display the columns of this table in the grid on screen. Click **Finish** button to end the wizard.

able Name <nc< th=""><th>NE&gt;</th><th></th><th>V Browse Tables</th><th></th></nc<>	NE>		V Browse Tables	
Search		Name	Select The Data Tal	
Name	Description		Please select the dat	ta table from below
			Search	Name
			Name CTCourseSlipLine CTExtHeader CTExtLine CTStudent ExtColTable CTMachineCodes <	Description
				Select Cancel
		<u>S</u> elect		ld

0							×			
-	Logo Customization - New Custom Business Object Wizard Provide business object table properties.									
Provide busine	ess object table	properties.								
Table Name	CTMachineC	odes			~ E	Browse <u>T</u> a	bles			
Search			Name				$\sim$			
Name		Description								
	REF	Logical reference								
CODE										
DESCRIPT	TION									
	•									
	6									
_										
				Select Al	I	Deselect .	All			
?		< <u>B</u> ack	<u>N</u> ext >	<u>F</u> inis	h	Cance	el de la companya de			
-										

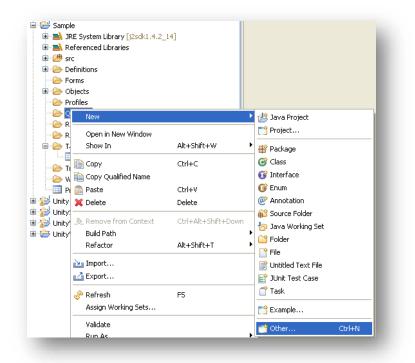
We add new fields to the product forms by using objects. To do so, we need to make **Extensions** definitions. We can add a second object over the same table and link it to the AR/AP card. See <u>Customization in Product Forms</u> to see how they are used on forms.

What we'll do next is to define an object with a different name and to select the product object to define **Extension**. The object name we'll be using in this example is CBOExtMachineCodes.

		0			– 🗆 X
In the second se		Logo Customization - New Provide business object exter		ject Wizard	
Provide business object extension options.		Extension Of FIBOARPCar	rd		✓ Browse Objects
Extension Of <pre> </pre> <pre> </pre> <pre> </pre>	V Browse Objects	Search		Name	~
r Search	Name	Name	Description		^
	Select The Extension Object X Please select the extension object from below Search arpcard Name Name Table Name FIBOARPCard FIARPCards FIBOARPCard/DintParam FIBOARPCard/orgUnitParameters FOROArpCardOrgUnitParameters FOROArpCardOrgUnitParameters Select Cancel Select Cancel	Internal Reference Record_Status Account_Type Code Title SearchText Auxil_Code2 Auxil_Code2 Auxil_Code3 Auxil_Code4 Auxil_Code5 Address1 Address2 City	3		v
(?) < Back	Next > Finish Cancel	?	< Back	Next > Finish	n Cancel

#### 3.3. Queries

Customization query objects (Query Business Object) are kept in Queries folder. To create a new Query object, right click on Queries, and then click **New > Other** to open Wizards window.



We select LPT Query Object in the window that opens, and then click **Next** button. In the next window, we'll be prompted to enter a name for the object we want to create. Let's enter a name and click **Next** button.

New -					×
Select a wizard		Logo Customization - New Custom Query Object Wizard This wizard creates a new query object for data manipulation.			-
<u>Wizards:</u> type filter text		Enter or select the parent folder:			
<ul> <li>&gt; jAX8</li> <li>&gt; jPA</li> <li>&gt; Logo Platform Tailor</li> <li>IPT Business Object</li> <li>IPT Business Object</li> <li>IPT Business Object</li> <li>IPT Expert Handler Class</li> <li>IPT Form Object</li> <li>IPT Form Object</li> <li>IPT Profile</li> <li>IPT Project</li> <li>IPT Report Class</li> <li>IPT Report Layout</li> <li>IPT Table</li> </ul>	^	CourseProject/Queries			~
S      Maven     Plug-in Development     S      Remote System Explorer	~	File name: CQMachineCodes.lqry Advanced >>			
\$		(?) < Back Next > Finish	_		
(?) < <u>Back</u> <u>Next &gt;</u> <u>Finish</u>	Cancel	(?) < <u>B</u> ack <u>N</u> ext > <u>Finish</u>		Cance	1

The next window list the existing queries. We can either use one of these queries as a template, or we can create a new query. To do the latter, we select **<Empty>** and click **Next** button.

An empty grid will appear. Right click on this grid and then click **Add** option.

A pop up window will open for us to select a table. Let's select **MachineCodes** table from the combo box and click **OK** button to close this popup window.

۲				
Logo Customization	- New Custom Que	ry Object Wizard	1	
Provide query propert	ies.			
Main Query Table	-D	Edit		
Search	, ,	Table	💋 Query Main Table	×
			W Query Main Table	^
Table	Alias	Link Condition	General Properties	
			Table Name AddIntRatelines	Browse Tables
			Alias	
	Select The Data Ta	able	× Enabled	
	Plassa salast the da	ata table from below		
Query Links	Search	Name		
Search	Name	Description	^	
Table	CTExtHeader CTExtLine			
	CTStudent		olumns Orders	
	ExtColTable			Oh Carad
	CTMachineCodes		×	Ok Cancel
?	_	s O Product Items O Bo		
		Select	Cancel	

We end the wizard by clicking **Finish** button.

After closing the wizard, a query definition will appear on screen. This screen has two tabs.

• Main Definition

This tab shows columns that will be called by using SELECT statement and table and order definitions that will be combined by JOIN statement.

• Condition Definition

You can create conditions for the query under this tab. At the top of this tab, Parameters are shown. The parameter value that you define here can be used in **Restriction Terms** section in the middle of the Condition Definition tab.

Let's prepare a condition by which we can filter machine code over **Lookup Terms**. The first step is to determine parameter value. After defining parameter value with name **P\_Code**, we use this parameter value in the condition as below.

Parameters										
Search						Name				
Name P_CODE	Column A CODE	llias	ias Default Value							
Restriction Terr Search	ms	Query Te	rm N		×	Name				
Name	Conditio	Name T Enabled Term Condit	Term Properties							
Lookup Terms Search						Name				
Name	Conditio	<			>					
				Ok	<u>C</u> ancel					

#### 3.4. Forms

#### 3.4.1. Creating a new form

Forms are kept in Forms folder in the customization project. It has a structure including j-guar cards and browsers. The structure of cards and browsers will be explained respectively.

**Right click** on Forms folder. Click **New > Other** to open Wizards window.

🖁 Package Explo	rer 🛛 🔋 Hierarchy			
		😑 😫 💱 🍸		
	ystem Library [j2sdk1.4.2_14] enced Libraries tions			
🖲 🗁 OL	New			/ Java Project
	Open in New Window Show In	Alt+Shift+W		📸 Project 🏶 Package
🗁 Re [	Copy	Ctrl+C		🞯 Class
🗷 🗁 Ta 👔	Copy Qualified Name			💽 Interface
🗁 Tre 👔		Ctrl+V		Enum Annotation
Pr(	🕻 Delete	Delete		Source Folder
🕀 🔐 Unity 🧕 🗷 🎲 UnityS	E Remove from Context	Ctrl+Alt+Shift+Down		🍃 Java Working Set
B 2 Unity B 2 Unity B 2 B Unity W −	Build Path Refactor	Alt+Shift+T	•	😭 Folder
	Import			This contract and the second s
<u>n /</u>	Export			📑 JUnit Test Case
4	Refresh	F5		👕 Task
	Assign Working Sets			📸 Example
	Validate Run As		, İ	📑 Other Ctrl+N

On the first page of the Wizard, select LPT Form Object (Table Layout) option and click Next button. On the next page, enter a name for the form object and click Next.

🗑 New —		×	📓 – 🗆 X
Select a wizard		\$	Logo Customization - New Custom Form Object Wizard This wizard creates a new user interface for data mathematication.
Wizards:         ype filter text         > jax         > jax		· · ·	This wizard creates a new user interface for data mal pulation.  Enter or select the parent folder: CourseProject/Forms  FormTemplates FormTemplates Objects Profiles Oueries Reports Couries Reports First Ceuries Ceuries First Advanced >>
A Seck Next > Einish	Canc	el	? < Back Next > Einish Cancel

In Form Template window of the Wizard, you designate whether you want to use a template for the form you are creating. (Form templates are kept in "**LbsDefinitions.jar**" file.) If you want an empty screen to open, you shouldn't change the default template option "**<Empty>**". Let's talk about the other options in this window.

- **Create event handler class**: This option automatically creates class file which will have you write the code for the form. It is checked by default, meaning that class file will be created.
- **Clear inherited events & properties**: If you are creating the form by using a template, meaning that if you are customizing one of the forms of the product, the product code behind the related form will

also be working in this new form that will be created automatically. Unless you want this product code to work, check this option.

#### Click Next to proceed.

earch			Name		$\sim$
Name		Module		Description	^
<empty></empty>				Empty form	
CMXFCommission.j	fm	Satış Yönetin	ni	Komisyon Tanımı	
CMXFCommissionB	rowser.jfm	Satış Yönetin	ni	Komisyon Tanımları	
CMXFCommissionL	ineBrowser.jfm	Satış Yönetin	ni	Satış Temsilcisi Komisyonl	
CMXFCommissionS	tateChange.jfm	Satış Yönetin	ni	Komisyon Durum Değişikl	
CMXFCommissionU	pdate.jfm	Satış Yönetimi		Satış Komisyonları Güncel	
CMXFCustomer.jfm	Satış Yönetin	ni	Müşteri Kartı		
CMXFCustomerBrowser.jfm		Satış Yönetimi		Müşteriler	
CMXFCustomerContact.ifm		Satıs Yönetimi		Müsteri Bağlantıları Kartı	~
] Create <u>e</u> vent handl ] Clear inherited eve Layout Form Width Form Height ☑ Append a "FILL" ( ☑ Append a "FILL" (	nts & properties 400 Colu 300 Row column to the en	mn Count Count nd (for resize is		$\searrow$	

If the form that you are creating has a Custom Business Object, select this object. Otherwise, if you are defining a form independent of CBO, complete the operation by clicking **Finish** button.

To link a CBO, click **Browse Business Object** button. Select **CBOMachineCodes** that we created previously in Select Business Object window. After selecting, all fields in CBO are called in the Wizard. You select the ones you need from these fields.

$\circ$							×
The	Available Business Objects a	nd Fields Listed Below.					
Edito	or Title Generated Edito	or Title					
Busi	ness Objec CBOMachineCo	odes			~	Browse Business	Objects
Na	me	Description		Туре	Column	Components	Has L
	LogicalReference	Logical reference		Integer	LOGICALREF		false
	✓ Code			String	CODE		false
· · · · · · · · · · · · · · · · · · ·	Select Business Object           Please select a Business O           Search	bject from the list	×	String	DESCRIPTION		false
	Name CBOCourseSlip	Description					
	CBOCourseSlipLine						
_	CBOExtHeader						
<	CBOExtLine						>
	CBOStudent	3			Select All	Deselect All	1
	CBOMachineCodes		>		JEIELLAII	Desciect All	
		Select	Cancel				
?	)		< Ba	ack N	ext > Fin	nish Ca	ncel

Then you designate the components over which these fields will be working in the form. Click **Next** button to proceed.

0								
The Available E	Business Objects a	and Fields Listed Below.						
Editor Title	Generated Edito						→ Browse B	usiness Objects
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You designate whether the selected components will be vertical or horizontal in the form, and click **Finish** button to complete the operation.

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escription		String	TextEdit	false				
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We see that the fields that are selected are placed vertically on the form. On the left of the form, there is a list including controls that can be used. These controls can be placed on the form with Drag & Drop method.

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Let's continue with our Machine Codes example and create a card and a browser that are necessary for this example. We see that the object we created under section <u>3.2.1</u> is linked to the form.

We add two buttons and name them "Save" and "Close". In Property tab, we select **Save & Close** as Action feature for **Save** button, and we select **Close** as Action feature for **Close** button.

This is how we define our Card.

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Let us start to create our Browser. **Right click** on Forms folder and click **New > Other** to open Wizards window.

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UnityS Build Path		🦢 Java Working Set
UnityW Refactor	Alt+Shift+T	Folder
UnityW		File
import		😭 Untitled Text File
🛃 Export		🔡 JUnit Test Case
🔗 Refresh	F5	👚 Task
Assign Working Set	5	Example
Validate		Ther Ctrl+N
Run As		

Select LPT Browser Form feature in the wizard window that opens and click Next button. On the next page, enter a name for the browser and click Next.

New -		×	■	×
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Wizards: Vige filter to: Vige filter t		~	Enter or select the parent folder: CourseProject/Forms Forms Forms FormIemplates Objects Profiles Queries Reports Resources Enter Trees WebContentExtensions WebContentExtensions WebContentExtensions File name: CFMachineCodesBrowsedIfrm Advanced >>	
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In this window,

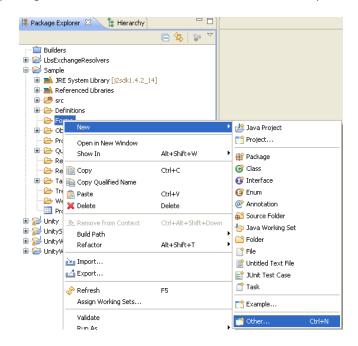
- Enter a heading in **Browser Title** field.
- Select the query we previously defined in **Query Name** field.
- After selecting Query, the fields that are defined in this table will be listed. Click Select All.
- Enter Business Object that we defined earlier in Select DBEntryDataClass.
- Enter Business Object that we defined earlier in Select Object Class.
- Select the form you want to open over Browser in Select DBEntryFormClass field and click Next button.
- Select the field you want to display in Browser in the window that opens. Click **Finish** to complete the operation.

**Note:** Since it is better to select all and then remove the fields that are not necessary over browser design-time, we select all and click **Finish** button.

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Create Event Handler Cl	ass								
Select DBEntryDataClass	CBOMachineCode	S	Browse						
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				ß					
?	K <u>B</u> ack <u>N</u> ex	t > Finish	Cancel	?	< Back Ne	ext > Finish	Cancel		

#### 3.4.2. Customizing an existing product form

Let's continue with an example. **Right click** on Forms folder and click **New > Other** to open Wizards window.



In this wizard page, select LPT Form Object and then click Next button. Enter a name for the form in the window that opens and click Next.

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Select the product form you want to customize in the window that opens. In this example, we select **FIXFARPCard.jfm** AR/AP card and click **Finish** button to end the wizard.

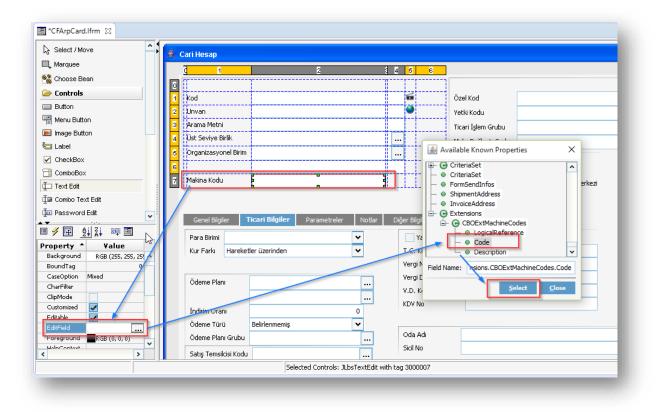
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After closing the wizard, AR/AP card of the product card is displayed.

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- We add label and textbox for the Machine Code in AR/AP card.
- We link the fields in our object to the textbox.

• After selecting textbox, we click **EditField** in Property. We see that object elements are listed in the popup window that opens.



• Extensions, namely the elements that are included through customization, are listed at the bottom of the Object. We link these elements to the fields that we added in form with customization, and we end the process.

	🕌 Available Known Properties 🛛 🗙
Field Names	OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaSet     OriteriaS
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#### 3.5. Reports

Right click on Reports folder and click **New > Other** to open Wizards window.

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Let's continue with the example we prepared about Machine Codes and see how to prepare a report for the table records.

- Select LPT Report Layout in the wizard and click Next button.
- Enter a name for the report and click **Next** button.

New -		×	🛎 – – – ×
Select a wizard		1	Logo Customization - New Custom Report Wizard This wizard creates a new report definition.
<u>W</u> izards:			Enter or select the parent folder:
type filter text  LPT Database Trigger		<u>^</u>	CourseProject/Reports
<ul> <li>LPT Easy Development</li> <li>With Handler Class</li> <li>LPT Form Object</li> <li>LPT Profile</li> <li>LPT Project</li> <li>LPT Query Object</li> <li>LPT Report Class</li> <li>LPT Report Class</li> <li>LPT Itable</li> <li>Maven</li> <li>Plug-in Development</li> <li>Premote System Explorer</li> <li>So SQL Development</li> <li>Tasks</li> </ul>		~	Reports Resources Resources Fres Trees WebContentExtensions FirstLPTSampleProj FirstLPTSampleProj FirstLPTSampleProj FirstLPTSampleProj Servers TPIC File name: RPMachineCodes.ljrf Advanced >>
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- Select a template for the report. If no template should be used, select <**EMPTY**> option and click **Next** button.
- You'll be prompted to enter a report name and a report description that will be used in report definition.
- Select **Regular Query Report** to use predefined query objects. The selection you make in this section will be coded in class file. Click **Next** button to continue.

		– 🗆 X	
Report Template			Report Template & Handler
The available report templates a	re listed below.		Please select necessary options to build up your report layout and handler.
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Name	Description	File ^	
<empty></empty>	Empty Report		Report Description: RPMachineCodes
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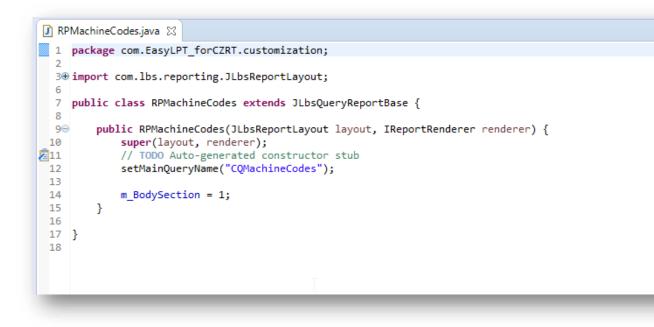
- Enter a name for the class file of the report in the window that opens.
- Click **Next** to reach the final page of the report wizard. Select report query in this page.
- We select the report query that we prepared under section <u>3.3</u>, and click **Finish** button to end the wizard.

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Java Class			Query Template			
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- After ending the wizard, report design window opens and it opens as an empty window. Let's have the first section as the header. We add two rectangles for Machine Code and Machine Description. We set the section type to Header.
- We add a second section and we add two fields to show data in this section.
- We right click on Report Design and select **Import Query Fields**. It will import the fields of the query that we have designated in the Wizard into **User Variables** field. We select these variables for **VariableName** that is in the field properties.

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• When we check out the Class file of the report, we see that a code block has been generated automatically. At this stage, if we edit ID value of the section ("2" in our example) where data will be displayed, our report will be ready.



Report's layout and class information is kept in Reports. Irdf under Definitions folder. Information that is kept here is created automatically by the Wizard.

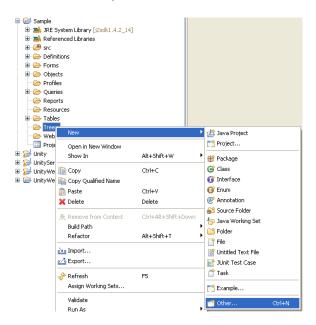
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#### 3.6. Trees

j-guar menu is in a tree structure and is divided into modules. Generally, the following child modules are listed under parent modules.

- Definitions
- Transactions
- Operations
- Reports

New modules or child modules can be added to this tree through customization. Right click on **Trees** folder and click **New > Other** to open Wizards window.



Select LPT Navigation Menu Tree option on the first page of the wizard and click Next to proceed. Enter a name for the tree on the window that opens and end wizard by clicking **Finish** button.

🗑 New			×
Select a wizard		Logo Customization - New Menu Tree Wizard This wizard creates a new navigation menu tree.	1
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Tree structure will appear on screen.

Let's continue with our example. We add Machine Codes browser as an element to the Definitions child group under Material Management. To do so, we click Material Management on the tree and make child groups visible. Then, we right click Definitions and select **Add Record Node** option.

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Navigation Menu De	finition		
Navigation Menu Properties			
Menu Tree Name Tree			
Tag Base	0 y Customization Nodes		
Navigation Menu Tree	Tree No	ode Properties	
🗸 🛟 Malzeme Yönetimi	^	Invisible	
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> 🛟 B 👘 Add Record N	lode 🔓		
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<ul> <li>Satiş Yönetimi</li> <li>Ihale Yönetimi</li> <li>Ihale Yönetimi</li> <li>Ihalat Yönetimi</li> <li>Ihracat Yönetimi</li> <li>Üretim Yönetimi</li> </ul>			

We set **Object Type** to form in the definition window that opens.

We write Machine Codes in **Caption** field for the heading. Lastly, we select the related form that we want to open, and complete our operation.

🖸 RPMachineCodes.java 📄 *Tree.ltre 🔀		
Navigation Menu Definition		
Navigation Menu Properties		
Menu Tree Name Tree		
Description		
Tag Base 0		
List only Customization Node	5	
Navigation Menu Tree	Tree Node Properties	
🗸 🛟 Malzeme Yönetimi 🔥		
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Malzeme Özellik Setleri		
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Teslimat Kodları	Form Select X	Select Object
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> 📑 Hareketler	Name V	Select Contract Definition
> 🥜 İşlemler	Name	
> 📂 Kayıt ve Atama Listeleri	Forms/CFCourseSlipBrowser.lfrm	
> 😥 Durum Raporlari	Forms/CEInvoicesBrowser Ifrm	
> 😥 Fiş Dökümleri ve Ekstreler	Forms/CFMachineCode.lfrm	
	Forms/CFMachineCodesBrowser.lfrm	
📮 Console 🔀 🔲 Properties 🛃 Problems 🧠 P		
LBS Console	Forms/CFStudentBrowser.lfrm	
	Forms/CFTransfer.lfrm	
	Select Cancel	

#### 3.7. Profile

Profiles are the structures that keep customization content of j-guar users. Each profile needs a tree structure. Customizations that are defined in a tree apply only to the users who belong to the related profile.

ATTENTION: You can define multiple profiles in a single customization project.

Now, let's see how to define a profile. Right click on **Profiles** folder, the click **New > Other** to open Wizards window.

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		🖻 😫 🗊 ▽	
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🗉 🔛 Unity 🗉 🔛 UnitySe	🗙 Delete	Delete	@ Annotation
🗉 🔛 UnityW		Ctrl+Alt+Shift+Dow	🛍 Source Folder
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	import		😭 Untitled Text File
	Refresh	F5	B JUnit Test Case
	Assign Working Sets	15	Example
	Validate Run As		📑 Other Ctrl+N

Select LPT Profile option in the wizard window that opens. Then click Next button. In the next window, enter a name for the profile and click Finish to end the wizard.

Select a wizard	□ ×	Logo Customization - New Profile Wizard This wizard creates a new customization profile.
Wizards:         ype filter text         > >> JAXB         >>> Day         >>> Logo Platform Tailor         >>>> LPT Business Object         >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	<b>^</b>	Enter or select the parent folder: CourseProject/Profiles Profiles Queries Reports Resources CourseProfiles Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resources Resour
(?) < <u>B</u> ack <u>Next &gt;</u> <u>F</u> inish	Cancel	Kack Next > Finish Cancel

After closing the wizard, profile page will appear on screen.

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rofile Properties					
-					
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Description					
Required					
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orm Replacements					
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Satış Temsilcisi Komisyonları	CMXFCommissionLineBr			Satış Yönetimi	
Komisyon Durum Değişikliği	CMXFCommissionStateC			Satış Yönetimi	
Satış Komisyonları Güncellemesi	CMXFCommissionUpdate			Satış Yönetimi	
Müşteri Kartı	CMXFCustomer.jfm			Satış Yönetimi	
Müşteriler	CMXFCustomerBrowser.jf			Satış Yönetimi	
Müşteri Bağlantıları Kartı	CMXFCustomerContact.jf			Satış Yönetimi	
Müşteri Bağlantıları	CMXFCustomerContactBr			Satış Yönetimi	
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Satış Temsilcileri Kartı	CMXFPartner.jfm			Satış Yönetimi	
Satış Temsilcileri	CMXFPartnerBrowser.jfm			Satış Yönetimi	
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Satış Temsilcisi Komisyonları Duru				Satış Yönetimi	

Profile page has all form objects in j-guar product. These forms can be changed with the customized forms.

Let's give an example. We made a customization for the AR/AP card under section <u>3.4.2.</u> Now, let have this customized card appear on screen instead of the original card when a user opens AR/AP record. First, we find AR/AP card in the list and then double click the card. A pop up window that lists the existing customization forms opens. We select our AR/AP card from this list, click **Select** and close the pop up window.

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<u>D</u> escription						
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General / Forms Tree / Reports			Forms/CFCourse.lfrn	n		
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			List only appropriate f	orms	Select (	Cancel

You need to make tree definition for the profiles. To do so, click **Tree / Reports** tab at the bottom of the grid and open **Extension Tree and Reports** page. Here we select the tree we defined earlier in **Tree Extensions** field. Note that all reports in j-guar product are shown in the grid. These reports can be changed with custom reports.

			Description
Report To Replace	Profile Report	Module	
AMFRMTransferSlip		Varlık Yönetimi	
AMFRMAIITransferSlip		Varlık Yönetimi	
CARPResourcesList		Maliyet Muha	
CARPActivitiesList		Maliyet Muha	
CARPDistributionDefinitio		Maliyet Muha	
CARPDistributionTemplat		Maliyet Muha	
CARPAssignedCostsList		Maliyet Muha	
CARPDistributedCostsList		Maliyet Muha	
CARPActivityTypesList		Maliyet Muha	
CARPResourceTypesList		Maliyet Muha	
DERPDemandList		Talep Yönetimi	
DERPDemandMeetingAn		Talep Yönetimi	
LORPPurchaseInvoiceList		Satınalma Yön	
LORPPurchaseTable		Satınalma Yön	
LORPPurchasePriceAnalysis		Satınalma Yön	
LOFRMDueDiffInvoice		Satınalma Yön	
LOFRMPurchaseContract		Satınalma Yön	
	AMFRMTransferSlip AMFRMAIITransferSlip CARPResourcesList CARPActivitiesList CARPDistributionDefinitio CARPDistributionTemplat CARPAssignedCostsList CARPAssignedCostsList CARPActivityTypesList CARPActivityTypesList DERPDemandList DERPDemandMeetingAn LORPPurchaseInvoiceList LORPPurchaseTable LORPPurchasePriceAnalysis LOFRMDueDiffInvoice	AMFRMTransferSlip         AMFRMAIITransferSlip         CARPResourcesList         CARPActivitiesList         CARPDistributionDefinitio         CARPDistributionTemplat         CARPAssignedCostsList         CARPActivityTypesList         CARPActivityTypesList         CARPResourceTypesList         DERPDemandList         DERPDemandMeetingAn         LORPPurchaseInvoiceList         LORPPurchaseTable         LORPPurchaseTiceAnalysis         LOFRMDueDiffInvoice	AMFRMTransferSlip       Varlık Yönetimi         AMFRMAIITransferSlip       Varlık Yönetimi         CARPResourcesList       Maliyet Muha         CARPActivitiesList       Maliyet Muha         CARPDistributionDefinitio       Maliyet Muha         CARPDistributionTemplat       Maliyet Muha         CARPAssignedCostsList       Maliyet Muha         CARPDistributedCostsList       Maliyet Muha         CARPActivityTypesList       Maliyet Muha         CARPActivityTypesList       Maliyet Muha         CARPResourceTypesList       Maliyet Muha         CARPResourceTypesList       Maliyet Muha         CARPResourceTypesList       Maliyet Muha         DERPDemandList       Talep Yönetimi         DERPDemandMeetingAn       Talep Yönetimi         LORPPurchaseInvoiceList       Satınalma Yön         LORPPurchasePriceAnalysis       Satınalma Yön         LOFRMDueDiffInvoice       Satınalma Yön

#### 4. DEPLOYMENT

#### 4.1. Deploying on Eclipse

Let us see how to deploy customizations to server.

To deploy over Eclipse, you must start by checking connection settings. See the details about establishing connection in section 2.3. After testing the connection, click the project over Package Explorer and activate it. Then click **Deploy** button.

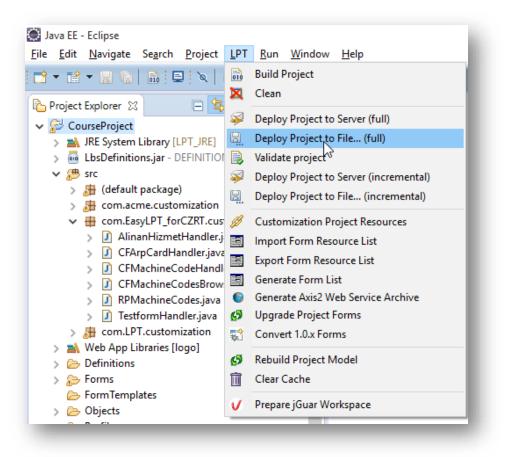
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FormTemplates Maliyet Aktiviteleri Liste	esi CAR
> 🧽 Objects Maliyet Dağıtım Tanıml	ları Listesi CAR

After starting Deploy operation, you can monitor the status of customization deploy to server by checking out the right bottom section of Eclipse.



#### 4.2. Deploying in the product

First, you need to create a customization file with extension **lpdd** to deploy in the product. To do so, select **Deploy project** to file... (full) option under Logo menu of Eclipse.



Designate the location to save Lpdd file. Note that **lpdd** file is named automatically.

After the file with lpdd extension is generated, j-guar Administrator is opened. Click Other Definitions 🥙 button on the horizontal menu.

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Click **Customizations > Customization Operations** option under Other Definitions tree. Customizations browser that lists the customization packages opens.

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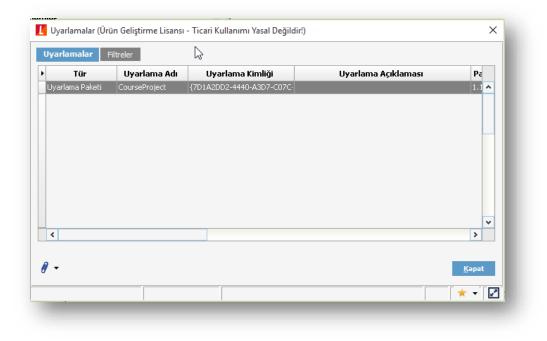
Right click on Customizations browser and select Load from File option.

Jya	rlamalar	Filtreler				
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Select the file with lpdd extension and click **Open**.

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udio2015           n_138           eo           Image:           CourseProject_UOD.2.45.25.0_20160923_01.lpdd	pdd
File Name: CourseProject_UOD.2.45.25.0_20160923_01.lpdd	
	>
Open Cance	✓

After a short while, customization file will appear in the browser. Thereby customization will be **deployed**.



#### 4.3. Operations after Deploying

The operations you do after deploying are the same whether you deploy over Eclipse or in the product. First, you need to add the customizations you deployed to a user as profile. To do so, right click on Users and then click **Profiles** option.

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On the left pane of Profiles window, all customization profiles are listed. On the right pane, customization profiles that are linked to the selected user are listed. After selecting **CourseProject** profile on the left, we click **Add** button to add the profile to the user and click **Save**. Then we end profile addition.

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If a new table is added as customization, it is not sufficient to perform deployment for this table to be created in database. After deploying, you must <u>update customization tables</u>. To do so, click **Companies** button.

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Right click on your company definition and select Update All Customization Tables option.

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Message board at the bottom shows update status of the tables. All problems encountered when updating tables are also shown in this field.

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