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Chapter 2. Creating a Simplest Project

"Easy-to-use" is the strongest advantage of EB500 software. Through an example of project with a switch control object, we explain how to create a simple project from EB500. Other project making is basically the similar procedure to this example.

2.1 First Step

First of all, let us create a blank new project.

1) After installing the EB500, select Start/All Program/Easybuilder/Easybuilder 500.

e e	
🐋 MSN	${m F}$ EasyAsciiFontMaker
🗐 Outlook Express	💀 EasyBuilder 500
🔔 Remote Assistance	🔣 EasyManager
📀 Windows Media Player	🍒 ImageCF
🔏 Windows Messenger	🛃 PLCAddressView
🚳 Windows Movie Maker	📄 ReleaseNote.pdf
🛗 EasyBuilder 🔹 🕨	📄 Reserved Word-bit.pdf

2) If it's the first time running EasyBuilder or a last blank project was opened on last time log-in, the following popup dialog appears.

yBuilder Welcon Please					
Model :	MT5101	F/MT50	8T (640	× 480)	~
Display n	node :	Lands	cape		~
Lang	uage :	Single	Byte		~
	ОК		(Cancel	ר

Select the model of the display and then click "ok".

Otherwise ,the last open project is opened for editing. Select menu bar [File]/[New] to create a new project, the following popup dialog appears.

Select the appropriate model you are programming. Here we choose model [MT510T/508T 640*480] as an example, then click "ok".

File	Edit	View	Option	Draw	Pa
New				Ctrl+N	J
Open				Ctrl+0)
Close					
Save				Ctrl+9	5
S	ave As				

yBuilder		
Welcome to E Please select	asyBuilder 500. your model.	
Model : MT510	1T/MT508T (640 ×	480)
Display mode :	Landscape	1
Language :	Single Byte	

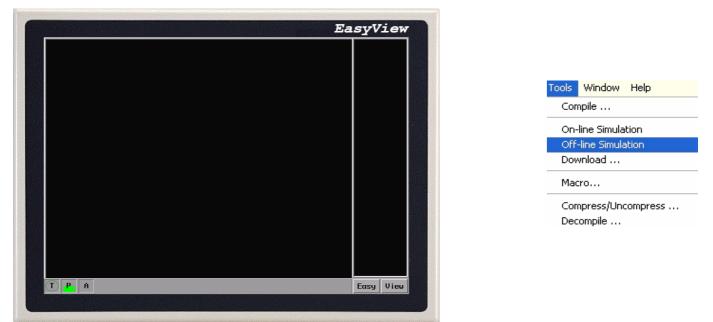
3) We can easily create a new project in this way. In the menu bar, select menu [File]/[Save] to save the project. as a.epj. The display shows as below.

Save As				? 🛛
Save in: 🚞	Project	*	0 🕫	📂 🖽
EBtemplate50				
EBtemplate50				
EBtemplate50 EBtemplate50				
EBtemplate50	•			
EBtemplate52				
compideood	~P			
File name:	а			Save
Save as type:	EasyBuilder Files (*.epj)		~	Cancel
	Click "	Save"		

4) In the menu bar, select [Tools] / [Compile], it will pop up a compiling message box. After compiling, click [Close] to close the message box.

Compiling		
Project name : C1Documents and Settings\poyi\Desktop\V270\Project\a.epj Compile file name : C1Documents and Settings\poyi\Desktop\V270\Project\a.eob	Tools Window Help	
0 error Program size : 221676 bytes Object size : 2852 bytes	On-line Simulation Off-line Simulation Download	
Library size : 65556 bytes Total size : 290084 bytes	Macro	
Compile	Compress/Uncompress Decompile	s

5) In the menu bar, select [Tools] / [Off-line simulation] for PC to simulate the PLC and emulate operations. At this time, we can see the new blank project we just created on the simulation screen as below.



There's no object on the screen and it doesn't allow to be executed any operations.

On this screen, right Click the mouse and select Exit, or press Space key to exit the simulation screen.

2.2 Create a Toggle Switch Object

Next step, we add a switch object on the project.

1) First, in menu bar, select [Edit]/[System Parameters], the "System Parameters Setting" popup dialog appears.

stem Parameter S		5.00	Internal Accession		
General Ind	cator Security	Editor	Hardware Aux.		
PLC type :	MITSUBISHI FX	0n/FX2	~		
HMI model :	MT510T/MT50	0T (640 ×	400) 💌		
PLC I/F port :	RS-485.4W	~	Bauditate :	9600	~
Data bits :	7 Bits	*	Parity:	Even	¥
Stop bits :	1 BR	*			
Parameter 1 :			Turn around delay :	0	
Parameter 3:	0		Parameter 4:	0	
Parameter 5 :	0		Parameter 6 :	0	
HMI station no. :	0	*	PLC station no. :	0	~
Multiple HMI :	Master	¥	HMI-HMI link speed :	115200	~
Connect I/F :	Serial	*			
Local IF	address: 0	· 0	· 0 · 0		
Server IF	address : 0	• 0	• 0 • 0		
Subnetw	ork mask : 0	. 0	.0.0		
Default route IF	address: 0				
PLC time out cons	tant (sec) : 3.0		PLC block pack :	3	~
		OK.	Cancel	looly 1	Help

In this example, we choose PLC type as MITSUBISHI FX0n/FX2.Select corresponding HMI model you are using.

2) In the menu, select [Tools]/[Toggle Switch] or click 💝 icon, the popup Toggle Switch attributes dialog appears as follows:

Parts Library Tools Wind		General Shape Label Profile	
Bit Lamp		Description :	
Word Lamp		Device type : LB Device address : 0	
Set Bit			
Set Word		Aux.	
Toggle Switch	u v	Write address :	
MultiState Switch		Device type : LB 🖌 Device address : 0	
Function Key		Aux	
		Attribute	
		Switch style : Toggle 💌	

3) Switch to Shape Tab, select Use bitmap and press Bitmap library.

eate Toggle Swit	ch Object	
Seneral Shape La	bel	
Shape		
	Shape library	e
Bitmap		
	Bitmap library	P
	2 3 4 5 State: 0	
01	2 3 4 5 State: 0	~
	OK Cancel Apply	Help

After pop up a Bitmap library dialog, press Select Library.

Bitmap Library					×
Bitmap library:	SYS_Button	State : 0	~ (01234	5
Bitmap name :	0:SYS Button 1:	SYS Button	2:SYS Button	3:SYS Button	
Total states :					
Compressed :					
lmage size :	0 0		0	0	
Background :	135	Frame : [127		
Select Lib	New Lib	Unattach Lib		ОК	
Add Bitmap	Delete Bitmap	Export		Cancel	

Select appropriate Bitmap library. We choose bmp1.blb here and click Open.

Open	? 🔀
Look in: Constant	
File name: Files of type:	bmp1 Open Bitmap lib.(*.blb) Cancel

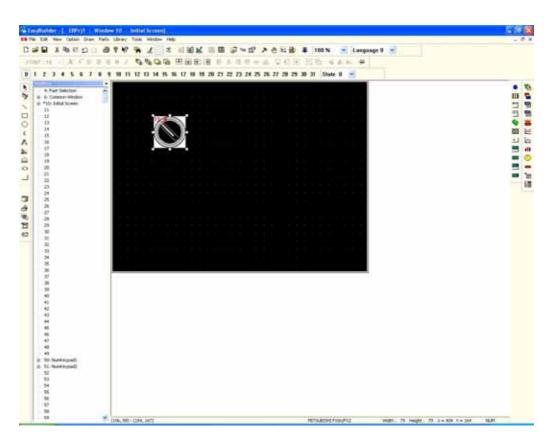
The pop-up dialog shows as below. Select the bitmap1 and click OK.

itmap library: br	np1	State : 0	~	01234
		開 ノ 願		
Bitmap name : 0:		1:	2:	3:
Total states :	2	2	2	2
Compressed :				
lmage size:63	20	6400	3136	1968
Background : 135	2	Frame :	127	
Dackground .				The second secon
Select Lib	New Li	b Unattach L	ib.	OK

Return to Shape Tab dialog and press OK.

Create Toggle Switch Object 🛛 🛛 🗙					
General Shape Label	_				
Shape Shape library					
Bitmap Bitmap library 🗹 Use bitmap					
0 1 2 3 4 5 State: 0					
OK Cancel Apply Help					

Left Click the mouse to pull the object in to the screen as below.



4) In menu bar, select File/Save and then select Tools /Compile.

5) In menu bar, select Tools/Off-line simulation. When clicking the switch object, you can see the on/off situations like a real one.



6) If you have MT5_PC, please connect [PLC] port of MT5_PC to PLC and [HMI] port of MT5_PC to the PLC[RS485] port of the display, PC port to the PC COM.

Have the power openly now.

7) In the menu bar, select [Tools]/[On-line Simulation], you will find by clicking the switch on your display, you can control the corresponding PLC output Y1. You can change this output status.8) In the menu bar, select [Tools]/[Download].

🗲 Easy Download (complete project) - C:\Documents and Settings\poy 🔀				
Downloading binary file				
	Cancel			

9) After downloading, reset the HMI. You can control this switch by touching the object.