# Client Side Exercises (3 days)

# Exercise 1: Hello World

### References

Implement W6Action

### Scenario

#### Task 1: Simple Action (CSWC817Training.Hello)

* Create a new action that displays “Hello Web Client” in a messageBox.
* Set a breakpoint at the line where it opens the DialogBox and catch it in Visual Studio debugger.

**Task 2: Use Silverlight UI elements**

* Open a Silverlight ChildWindow instead the MessageBox to display the “Hello World” message.
* Add a button and a TextBox to your form. When pressing the button, the “Hello World” message should be updated to the Textbox content

# Exercise 2: Display and Update Engineers Details

### Scenario

Task 1 - Create new Customization Point- complex action to display and update engineers’ details

Implement W6Action (with calling Web Services and Group/Indexes)

#### Task 1 - Display and Update Engineers Details (CSWCTraining817ConvertedFromWinfowsClient.EngineerAction)

* Create your own action to update Engineer details. By the end of this course you should have your own action to update Engineer details Your action should have:

1. A drop down list of all the engineer names according to selected region.
2. When you select an engineer, your action should retrieve the engineer details (region, district, skills) and allow the user to updated them and see his schedule for specific date.

##### Step 1:

Create an “engineer details” form that will display the properties: Name, ID, Active and City of engineer “Andy James” and will allow you to update them

##### Step 2:

Add an “update” button to the form that when clicked will update the engineer object in the database with the changes the user made to the properties in this form.

##### Step 3:

Extend your form to display the Skills information for Andy James. Note that the skills property is a Multi Value property of aggregate type. This can be read only so there is no need to update the engineer object.

##### Step 4:

##### Extend the details form you previously created to display the Region and District properties of the selected engineer. (Read only)

##### Step 5:

Add a startup form that will contain:

* a combo box containing all of the regions
* a combo box containing engineers name according the selected region
* a “Look Up Engineer” button.

When the user clicks on the button the second form will open displaying the selected engineer details and allowing to update them.

##### Step 6:

Display an engineer schedule for a specific day in a dialog box.  
Your “engineer details” form should have a date range and an “Get Schedule” button that exports the schedule of the specific dates for the specific engineer to dialog box.

# Exercise 3 : Custom Action

### References

Implement W6Action

### Scenario

#### Task 1: Modify Task Object (CSWC817Training.UpdatePriority)

Create a new action that enables the user to update the selected task’s priority

**Task 2: Read Settings (CSWC817Training.ReadSettings)**

Create new action that reads the user settings from the server and shows the administrative settings name in a window.

# Exercise 4: Calling a Web Service

### Scenario

Task 1 – Calling OOTB Web Service

Calling a web service Implements W6Action

#### Task 1: Calling ‘ExtendedGetAppointments’ Web Service (CSWC817Training. GetAppActions)

Create an action to add to the task’s context menu which gets the available appointments within the next 8 hours for that task. The action will call the OOTB web service “ExtendedGetAppointments“.

# Exercise 5: Custom Button

### References

Custom panel Implement W6CustomPanelControlBase

### Scenario

#### Task 1: Create custom button (CSWC817Training.HelpButton)

Add new custom button in Resource form that will open the Web Client Help Document.

# Exercise 6: Formatting

### Scenario

Task 1 – Fast Technician column in ResourceList

Task 2 - PerformedOnTime column in TaskList

#### Task 1: Fast Technician column in ResourceList(CSWC817Training. FastTechnician)

* Add a “Fast Technician” column to the ResourceList.
* This column will use custom formatter that will show: if the travel speed of the resource is above 60 M/ph - “Yes”, otherwise –“No”. (Please pay attention to Mile / KM conversions).

#### Task 2: PerformedOnTime column in TaskList (CSWC817Training.OnTime)

* Use custom formatter that will set the “Status” column of the TaskList to have a red background if task (DueDate >= Assignment Finish)

# Exercise 7: FormBeforeClosed

### Scenario

Task 1 - Create new Customization Point onFormBeforeClosed.

onFormBeforeClosed Implement W6Form

#### Task 1: Create new Customization Point – onFormBeforeClosed(CSWC817Training.FormEvents)

Create new Customization Point – onFormBeforeClosed on TaskAssignment form that alert user if priority above 5.

# Exercise 8: Validation On Show Form

### Scenario

Task 1 - Create new Customization Point – ShowForm

ShowForm Implement W6Form

#### Task 1: Create new Customization Point – TaskAssignment ShowForm(CSWC817Training.FormEvents)

Create new Customization Point – override ShowForm on TaskAssignment form that prevents updating In Jeopardy task.

# Exercise 9: Forms - Set default values on create a new task

### Scenario

Task 1 - Create new Customization Point- Set default values on create a new task

Implement W6Form

#### Task 1- Set default values on create a new TaskAssignment (CSWC817Training.FormEvents)

When creating a new task from within the client, set the following default values:

Priority = 3

Task Type = Heat

Duration = 1 hour

Calendar = 5 X 9 (default)

# Exercise 10: Custom Panel - View

### Scenario

Task 1 - Create new Customization Point – Custom Panel

Task 2- Create a new Customization Point – Custom Panel and Action

Custom Panel Implement IW6View

#### Task 1: Create new CustomPanel(CSWC817Training.NAVsAssignment)

Create a custom panel that shows a pie graph. It calculates NA time against assignment time. This panel should be refreshed once every minute.

#### Task 2: Create new CustomPanel and Action (CSWC817Training. Jeopardy List, CSWC817Training. JeopardyAction)

Create a custom panel that shows all current “In Jeopardy” tasks in a list (DataGrid). In addition, add new action to the Task List menu. When right click on task in the task list which is not in “In Jeopardy” and activating the action, it will set the task to “In Jeopardy” and add it to the panel.

# Exercise 11: Mini KPI

### Scenario

Task 1 - Create new Customization Point – Mini KPI

Mini KPI Implements IW6KeyPerformanceIndicators

#### Task 1: Create new Mini KPI (CSWC817Training. ResourcePicture)

Add a picture for every resource (according to its crew / manager / name, etc.) in the resource tooltip.