

# UI5 and Fiori Interview questions

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Never learn from trainers who teaches copy paste of code.

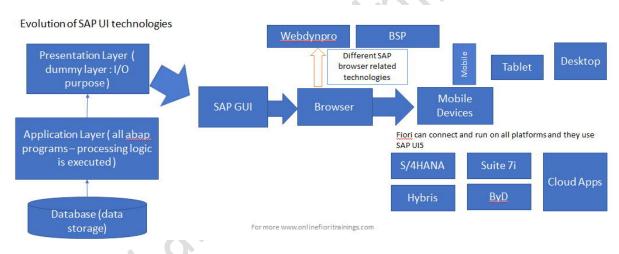
#### O. What is SAP UI5 Framework?

SAP UI5 is a framework to develop responsive web application. Responsiveness has got nothing to do with performance, but it's an application which has capability to adapt itself in all the devices. It gives a coherent UX across all platforms (different browsers/devices).

Framework is a collection of libraries, each library includes classes, and each class includes methods

# Q. Evolution of UI technologies

1<sup>st</sup>:



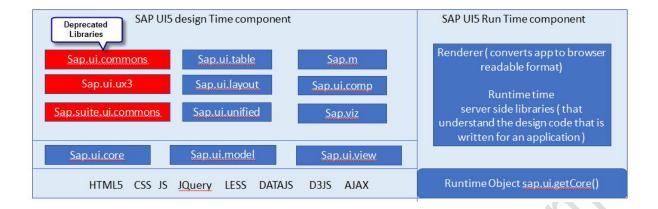
# Q. What is SAP UI5 design-time & runt-time component?

Ans. A Framework typically has two types of libraries which consists of two parts:

- 1. SAP UI5 design-time component: It includes all the libraries, classes and functionalities that allows you to develop all the applications from scratch
- 2. SAP UI5 run-time component: responsible for execution of Fiori Application, which consists of renderer that converts the app code into browser readable format (i.e. HTML5, CSS and JS)







- Q. Steps to follow in any programming language to develop an application? Ans.

For the theme to be active on the page: specify class "sapUiBody" in the <body> tag of the html document.

```
<body class="sapUiBody">
```

2. Declaration – Data variables used in program – Create UI Control

```
var var_name = new libraryName.ClassName(sld, sProperties);
sld- unique ld of your UI control
sProperties: Control properties for configuring control attributes. Inside curly braces.
() - parenthesis
{ } - curly braces
[ ] - bracket
```

3. Actual program business or orchestration logic – manipulation, IF, Loop, call - display control to User

ObjectContro.placeAt( "id of control");

- 4. Output Show output to user
- 5. Clean-up
- Q. Define structure of a Web Application / HTML page?

Ans. Any Web Application that is understood by browser is always a HTML page which is a static web-page. Structure of a typical web app page is a html page

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```
</head>
<body>

(* place the control in the body)
</body>
<html>

Structure of HTML document

Document Type = Contain the version
<!DOCTYPE html>

<html>

<head>- Contains the metadata information, title, script, css

<body>
- Contain the UI elements, Whatever is visible to the user, has to be kept in body of HTML
```

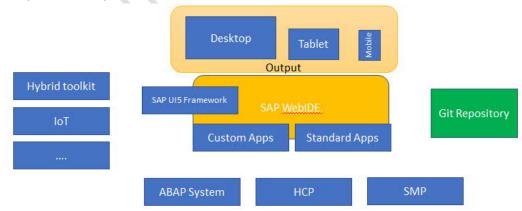
#### Q. What is SAP WEB IDE?

Ans. SAP WebIDE is an Integrated Development Environment (IDE) which allows developers to create/extend Fiori Apps.

Why WebIDE?

- > It makes easier to develop Fiori Apps using ready to use templates.
- Extensibility pane to extend Fiori Applications.
- Multiple Deployment options.
- Allows team sharing repository. Git repository
- > Can access it from anywhere on any device. No local footprint (local installation is required).

SAP Web IDE can be used in two flavours: Personal Edition (trial purpose) & Productive Version (subscription to companies)



## Q. What is HTML?

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HTML stands for Hypertext Markup Language which is created by W3C = World Wide Web Consortium who is responsible for defining HTML tags and versions. All browser vendors like Chrome, IE, Firefox, Safari.

It is used to create static web pages.

<u>HTML</u> is not a programming language. It is based on tags, if we follow the approach, we can create a static webpage using these standard tags. E.g. button, input, datalist, li, ul, h1, table ... etc.

Important Points to be noted:

- > HTML is not case-sensitive
- > Browser directly understand HTML
- User can only see content in browser provided it is kept in body of HTML
- ➤ Every HTML element can have ID property. Developer should make sure that ID is always unique.
- ➤ Html elements can also have name, class (classification) property, which doesn't needs to be unique.

## Q. Difference between HTML and HTML5?

- HTML5 is just the advancement of HTML, it was released in year 2014
- HTML5 is labral in nature
  - Even we put something in head of html, it will be visible to user. Ideally we should not do that.4
- Declaration of DOCTYPE

Older version example <!DOCTYPE html DND\_VERSION="XHTML/4.02" HTMLSCHEMA="htmlns">

<!DOCTYPE html> → tells the file that it's an html page

- For some of the tags in HTML5, we don't need to put ending tag e.g. img, input
- New elements introduced to define proper structure of the website like header, footer, article, section etc.
- Direct support for Audio and Video tags in HTML5, before that plug-in support was needed in browsers.

# Q. Difference between HTML5 and SAP UI5?

HTML5	SAP UI5
HTML5 versions are released by W3C	SAP UI5 versions are released by SAP
HTML5 is a markup to just design user interface without any logic	SAP UI5 is a framework
HTML5 is having standard tags but it is also liberal in nature	SAPUI5 has strict JS syntax to follows

#### Q. Difference between Open UI5 and SAP UI5?

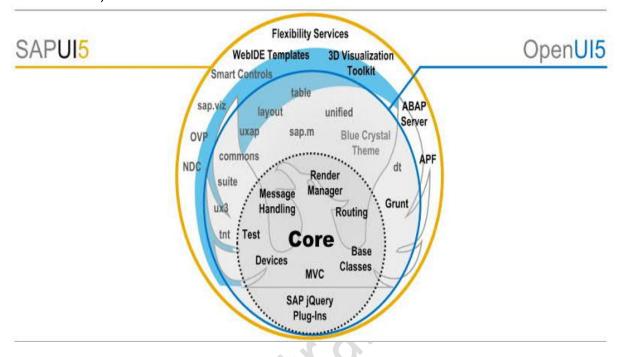
 Open UI5 is a Subset of SAP UI5, Most commonly used libraries are part of open UI5 for consumption by users.

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Open UI5 is an open source under Apache 2.0 license where as SAP UI5 is a licensed product, this
comes along with SAP Netweaver or SCP (SAP Cloud Platform – formally known as HCP – HANA
Cloud Platform).



# Q. What is metatag in html?

Ans. It depicts the metadata of HTML page. (refer: <a href="www.w3cshools.com">www.w3cshools.com</a> for more characteristics information)

Characteristics of metatag are:

- Encoding-type help user to identify the type of characters that are applicable
- Author- created by
- Keyword reside in metatag for search engine optimization
- Description description about the websites in the search engines

# Q. What are List tags in HTML?

Ans. List tags are used to display sequence of data.

There are two types of list tags:

- 1. Unordered list -
- 2. Ordered list -

#### Q. What are block level elements?

Ans. Block level elements are used to structure the HTML content properly. These elements don't have their own footprint on page. Two types of block level elements:

div - Division tag,

- > It automatically starts with a new line
- Used to create/group a block of elements.

span – inline element

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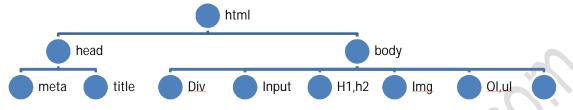
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- > It doesn't starts from new line
- ➤ It wraps an existing HTML element

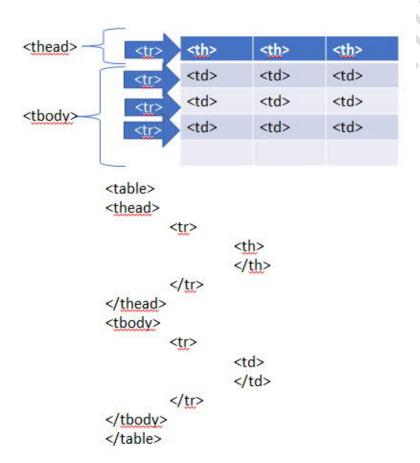
# Q. What is DOM (Document Object Model)?

Ans. Browser converts HTML in a tree data structure – This is known as DOM (Document Object Model). Runtime structure of HTML in browser.



F12 is the key to open internet developer toolbar / developer tool

## Q. Define HTML table structure?



# Q. Define <iframe> tag.

Ans. <iframe> tag in HTML is used to embed another HTML document. <iframe href= "(reference of the HTML document)" width="" height=""></iframe>

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## Q. What is CSS?

Ans. CSS – Stands for Cascading Style Sheet.

CSS is used to do styling of HTML element in a way that it separates the style code from HTML code. 3 ways to apply CSS:

- Inline Style: is just like element level styling. → too much of coding <tagName style="prop:value; prop:value"></tagName>
- 2. Internal Style: Applying the style for group of elements together, it is also possible to apply style on single element as well.

For applying internal Style, we should use a new tag called <style> tag in the header of HTML.

Syntax:

2. External Style: It is just like internal styling but the code for styling is taken out in a separate file and reference the file in HTML file.

```
<head>
k rel="stylesheet" href="styles.css">
</head>
```

## Q. What is Inline Styling?

Ans. Inline styling is an element level / tag level styling which gets applied to all the elements defined in the tag. So if there are multiple elements, applying style for each and every element is not feasible. In that case we use Internal Style.

# Q. What is Internal Styling?

Ans. Internal Styling can be applied to group of elements together using a selector.

A Selector is "unique identifier of an element(s) which can be used in two ways:

- #id applying style for a particular element
- .className class name is a classification of elements, <u>a group of elements</u>, to apply class name, embed the element inside a <div> tag
   Eg. <div class="(your class name)"> "your element" </div>
- tagName all the elements which has the tagname gets affected with style

St. to use a tagname selector, it affects elements of entire page with similar tag, But majorly user needs style on group of elements. In these cases, we don't use tagname but we use classname as our selector.

Standard is not to mention class name at element level. But wrap the element around a tag with a div tag and use class name.

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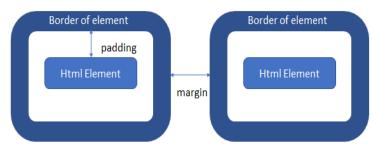


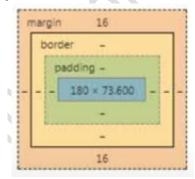
# Q. What is Responsive Web Design?

Ans. Web design which adapts itself according to screen size to provide a consistent user experience. Based on device available space, the screen adjusts itself without a scroll bar at page level.

#### O. What is CSS box model?

Ans. CSS box model is how the element is represented on the HTML page, which has border and the actual element. The space between the border and the element is called padding (property) and the space between two different element boxes is called margin (property).





Width of HTML element = actual width + padding + width of border + margin

# Q. What is a pseudo class in CSS?

Ans. Pseudo classes are nothing but special identifiers to apply CSS on elements based on certain events or activities which user perform on the UI

```
selector:pseudo-class{
---CODE
}
```

\*\* list of available pseudo classes can be obtained from w3cshools.com, eg. FOCUS, HOVER etc

# Q. What is JavaScript?

Ans. It is a programming language understood by browser. It is completely different then java in terms of design, purpose and concept.

- JavaScript is case-sensitive
- Naming convention to be followed for declaring JavaScript "variables" and "function"
  - first word should start with small letter
  - next consecutive word should be camel caps or first letter of next word should caps

eg: HelloWorld → helloWorld

- Every statement of JS should end with semi colon (;)
- Object oriented

## Q. What are types of JavaScript (JS)?

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Ans. There are two types of JS:

- 1. Client side JS JS code which completely runs in client-side (runs in browser). Eg.UI5, Angular JS etc to Create responsive web applications.
- 2. Server side JS JS code runs on server side. eg. XSJS, Node.JS. Server side programming like DB lookup, sending email, manipulating data, updating system status.
- Q. What is the purpose of JavaScript(JS)?

Ans. JAVA Script is used for following purposes:

- 1. Validate the input
- 2. Perform calculations on client side: Write imperative logic if, looping, arithmetic and logical operations
- 3. Check conditions and operations
- 4. Call server
- 5. Manipulate DOM (html)
- 6. Change CSS at runtime
- Q. Steps/Techniques to apply JavaScript in the code?

Ans. 3 ways we can apply JS in the code:

- 1. Inline JS code is written at element level
- 2. Internal JS code is written at page level inside <script></script> tag.
- External JS reference an external file (.js) into your html page, <script src="(path of JS file)"></script>
- Q. What are different Output Functions in JavaScript?
  - 1. alert() provide a popup to user
  - 2. Console.log print output to console
  - 3. document.write replace whole HTML page content with write content
  - 4. .innerText change text of an HTML element
- Q. What are the pre-defined objects available in JS?

Ans. Two types of Objects:

document – object of your DOM (Document Object Model) – Runtime structure of HTML document

the document object provides lots of methods to obtain the object of HTML element(s) which are APIs – Application programming Interface – represented by a reusable method or class.

- i. document.getElementById single element by its id (id of html element is unique)
- ii. document.getElementsByClassName list of all elements by class name
- iii. document.getElementsByTagname list of all elements having that tag
- 2. window this is the object of browser window
- Q. What is the syntax to create variables in JS?

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Ans.

var variableName = value

# Object in java script:

var obj\_name = { "propname": "propval", "propname": "propval" } → This is like a structure in ABAP.

## Table variable - array

```
var arr_name = ["item1", "item2","item3"...]

↑

index → 0 1 2
```

## Q. What is JSON- Java Script Object Notation?

Ans. If multiple records have to be defined in an array, we need to add multiple objects as a part of array. The concept of combining array and objects is called JSON - Java Script Object Notation.

Q. What are different types of functions in JavaScript?

Ans. 2 types of functions in JS

 Anonymous function (functions without any name) function(argument, argument) {

}

Named functions (your own defined functions) function functionName(argument, argument){

> ..... }

Important!! A function can be passed as an argument.

In JS, these functions are executed asynchronously without lead-time of the response.

# Q. How to attach js to the elements?

Ans. Using Events. Events are activities performed by user on the UI application.

Eg. focus, click, double click, key press, mouse down, mouse up.

There are certain events which are system events which are used to perform certain functions in the programming: eg. load, close, kill, exit, timeout.

A JS event can be defined by suffixing the activity name by "on"

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e.g. onclick, onfocus, onmouseover.

# Q. What is jQuery?

Ans. jQuery is not a language. It is a JavaScript library which is concise and fast to avoid writing large piece of code using JS. It is based on a principle of "write less, do more".

The most commonly used line of code and methods are available in jQuery to be consumed in the application code helping developers to quickly achieve desired results without much coding.

There are two ways to consume this library:

- Download the jQuery and reference
- Reference online CDN(Content Delivery Network)

# Syntax to consume a jQuery:

```
<script src="path of JS file"></script>
```

https://developers.google.com/speed/libraries/#jquery

## jQuery

#### 37x snippet:

```
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.2.1/jquery.min.js">
</script>
```

#### 2.x snippet:

```
<script src="https://ajax.googleapis.com/ajax/libs/jquery/2.2.4/jquery.min.js">
</script>
```

#### 1.x snippet:

```
<script src="https://ajax.googleapis.com/ajax/libs/jquery/1.12.4/jquery.min.js">
</script>
```

## site:

jquery.com

# Q. Syntax to use jQuery

\$(selector).action();

- \$ tell the browser that we are going to use jQuery
- Selector tagname, .className, #id
- Action method, event name, on, css('prop','val')
- \$(selector).action(params, callBackFunction());

# Q. What is Chaining concept in JS?

Ans. When a method is called in JS, another method can be called on top of it.

```
Eg. object.method1().method2().method3();
   object.method1(); object.method2(); object.method3();
```

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Q. What is a Call Back Function in JS?

It is a function which gets triggered when a particular operation is completed. Typically Call Back Functions are asynchronous and anonymous.

syntax: object.function(callbackFunction);
.hide, .show, .fadeOut, .fadeIn, .animate

Q. What is SDK? What does SAP UI5 SDK offers?

Ans. SDK refers to Software Development Kit. It's a repository of API's and related documentation, to be referred to develop applications based on particular technology.

SAP UI5 SDK offers latest updates on the framework. It gives the latest information about the evolution in SAP UI5 technology like version, API reference, Sample applications, ICON explorer etc

A UI control is a CLASS in the framework which consists of properties, associations, aggregations, events, methods etc

Q. What are setter and getter methods in SAP UI5?

Ans. For every UI control in SAP UI5, there is setter and getter method to change and read the text of UI control.

e.g. for "text" property : setText() and getText()

Statement: For every event in SAP UI5, methods a fireEventName() and attachEventName() and deattachEventName() get created.

Q. What are different ways to obtain object of SAP UI5 control?

There are two ways to obtain object of UI5 control

1. Using application runtime object

sap.ui.getCore().byId("id of your control");

OR

var oRuntime = sap.ui.getCore(); var oAnubhav = oRuntime.byld("id of control");

2. Using View object when we use MVC architecture (XML Views) this.getView().byld("id of control");

this keyword represents the object of current control.

Q. How to create control in UI5?

Syntax to create a control:

var oControlName = new <lib\_name>.ControlName(sld,sProperties);

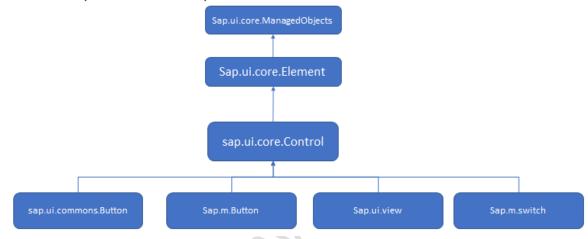
Note that! the control name always starts with capital letter. Pure camel case. sld: Unique ID of the control.

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sProperties: the attributes/properties of the UI element. All the properties should follow below syntax {
 propname: "prop val",
 propname: "prop val"
}

Q. Define Control Hierarchy of a SAP UI5 control? Control Hierarchy: Inheritance hierarchy of SAP UI5 Controls.



Points to be remembered while applying SAP UI5 hierarchy:

- ➤ In JAVA SCRIPT we use "extends" keyword to indicate the inheritance.
- If you are unable to find property or event of a particular class, check its parent class.

# Q. Define Association in Object Oriented Programming

Association can be achieved in two ways:

- 1. Aggregation: lose coupling, good to have relationship. Both objects can function independently.
- 2. Composition: tight coupling, objects cannot function independently. Must have relationship.

# Q. What is Design Pattern?

Design pattern are formalized best practices that the programmer can use to solve common problems when designing an application or system. Types of Design Patterns are Structural, Creational and Behavioural.

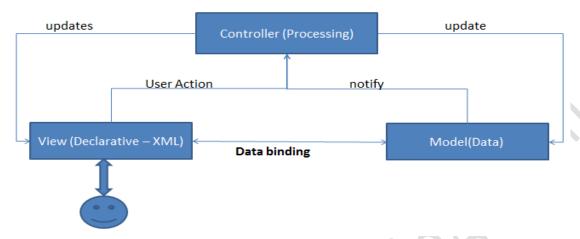
MVC architecture is one such design pattern which is based on OO-P to deal which common problems in the programming of creating an object, deleting, passing parameters to an object, event handling, reducing complexity of the code, reusability etc

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## Q. What is MVC Architecture?

MVC – Model View Controller **Design Pattern Model – Object of** Data **View –** Display (IO) **Controller** - Processing



# Q. What are different types of Views?

- Java script majorly used during dynamic programming
- XML views (widely used SAP UI5 programming)
- JSON views
- HTML views

## Q. What are components of a View?

A view has two methods which are available as part of the view.

# Q. What are different methods in a Controller?

The Methods Forming part of a Controller are known as HOOK Methods

onlnit() – this method gets called when the object of the controller is instantiated on Exit()-  $\,$ 

onAfterRendering()
onBeforeRendering()

# Q. What is the purpose of index.html?

index.html is used to: 1. Create object of the view & 2. Add it to the DOM

Q. Steps in which SAP UI5 framework executes and application

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Step 1: Gets the controller name (getControllerName)

Step 2: Creates object of the Controller

Step 3: pass the object of the Controller to the content (createContent)

Q. How to specify the path of the root folder, in the app, where your view and controller resides? It is defined by specifying the path in data-sap-ui-resourceroots inside the initialization block under <script> tag in the header of index.html

data-sap-ui-resourceroots='{ "rootnamespace" : "./" }'

Q. Naming a view / controller

Q. How to validate a JSON? isonlint.com

Q. How to declare different views in JS? sap.ui.core.mvc.ViewType.JS sap.ui.core.mvc.ViewType.XML sap.ui.core.mvc.ViewType.JSON sap.ui.core.mvc.ViewType.HTML

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```
var oView = new sap.ui.view({
   id: "idMain",
   type: sap.ui.core.mvc.ViewType.JS,
   viewName: "jumbo.Main"
});
```

Q. Can we have multiple views in a project? Yes.

Q. Can we have multiple varieties of views in our project? Yes. Best practice says keep only one type across.

Q. Can we have a single controller for all the views?

Yes. Best practice says that we should have one controller per view. Vice-versa is not possible. This means we cannot have multiple controllers per view.

Q. Why you see XML views are preferred, Why SAP recommends XML views, Why standard Fiori Apps delivered by SAP has XML views only?

MVC - Model View Controller is the Design Pattern we are using.

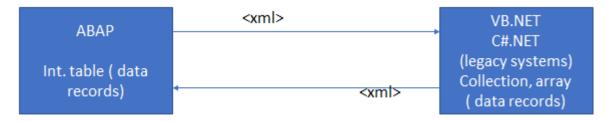
In order to avoid developers coding any processing logic inside a view, we use xml view. This will prevent MVC violations.

The parsing of xml is faster than JS views.

XML is standard in industry for creation of user interface.

## O. What is XML?

XML stands for eXtensible Markup Language. It was initially designed for common language for communication (data transfer) between heterogeneous (multiple) technologies.



To create and process XML, an XML document has to be provided with interfaces/classes and APIs. When we convert data type (int. table, collection, array) to XML → Rendering When we convert XML to data type (int. table, coll, arr) → Parsing IF\_IXML, CL\_XML\_DOCUMENT...IF\_IXML\_NODE etc. (XI)

#### Q. Define Structure of an XML document

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If we have multiple variety of nodes, we can choose which type node we want to create, to do that you need to use namespace concept in XML. So in the root of XML we can define a recognizable identity to type of node.

Sap.ui.core, sap.ui.commons, sap.m → XML elements to be created based on these libraries XMLNamespace is defined representing an alias name for the control library namespace:<controlname(Button)>

#### Q. Declaration in XML view



# Q. what are different models in Sap UI5?

## Models are objects of Data



# Q. What are the Steps to define a model object

Define the model object
 var <modelobj> = new sap.ui.model.json.JSONModel()
 sap.ui.model.xml.XMLModel()
 sap.ui.model.resource.ResourceModel()

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- 1. Sap.ui.model.odata.ODataModel(), sap.ui.model.odata.v2.OData()
- Load or set data to model object .setData(), .loadData()
- 3. Make the model aware to UI5 application, View or UI Control sap.ui.getCore ().setModel(<modelobj>, <nameofmodel>);

St. If we do not pass the <nameofmodel> this model acts like default model for entire application and all UI controls will seek data from this model. If there are multiple models in a single application, this becomes a confusion for application and UI controls to pick data from which model? In this case we will give an identifier to the model which we are setting as model name. in order to refer the model name we use "modelname>"

```
Q. How to build a path to bind view elements to JSON data?

For eg: for a JSON Data below:

{

    "empStr": {

        "empNo": 100,

        "empName": "Anubhav",

        "salary": 900,

        "curr": "EUR"

    },

    "empTab": [{"empNo": 200}, {"empNo": 300}, {"empNo": 400}]
}
```

Every curly braces or bracket will be converted to a forward slash (/), In case of table include index (starts with 0) in path

/empStr/empNo – path for employee number

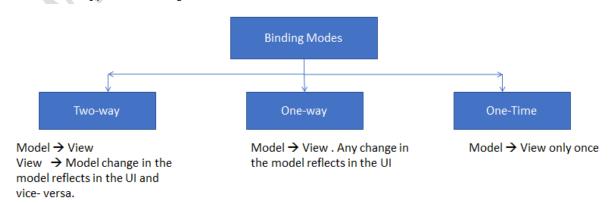
Path for salary - /empStr/curr

Employee number for 2<sup>nd</sup> record -- /empTab/1/empNo

Q. What is binding?

To change and access the data in the model object we use binding.

Q. What are types of Binding Modes?



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- Q. what are different APIs to <u>access and change</u> the data in the model object? oModel.getProperty("path") returns the data at the path level oModel.setProperty("path", "value") change the data inside model object.
- Q. What are default binding modes for different Models?

Model	One-way	Two-way	One-time
OData model	X (default)	X	X
JSON model	X	X (default)	X
XML model	X	X (default)	X
Resource model			X

Q. API to change the default binding mode?

In the Controller, we can set the default binding mode for the Model:

```
oModel.setDefaultBindingMode("OneWay");
OR
oModel.setDefaultBindingMode(sap.ui.model.BindingMode.OneTime);
```

- Q. What are different types of Binding Types in SAP UI5? Ans.
  - 1. Property Binding bind input fields "value" property to JSON path

```
new sap.ui.commons.TextField({width: "100px",
    value: "{/empStr/empNo}",
    enabled: "{/empStr/magic}"

new sap.ui.commons.TextField({width: "50px"})
    .bindProperty("value","/empStr/curr").bindProperty("enabled","/empStr/magic")
```

2. Expression Binding – binding achieved by implementing a logic/expression without much coding in the controller( can't be debugged). For Expression binding to work, you need to specify complex binding mode in the initialization

```
data-sap-ui-xx-bindingSyntax="complex">
enabled: "{= ${/empStr/empNo} < 200 ? !${/empStr/magic} : ${/empStr/magic} }"</pre>
```

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<sup>\*\*</sup> refer SDK for literals / symbols used in expression binding

- 3. Aggregation Binding to connect UI control with multiple set of elements, you need to use aggregation of the control. Eg. Table-rows. So, whenever there are multiple elements, it has to be achieved by aggregation binding.
- 4. Element Binding
- Q. Advantages of SAP Fiori

Ans.

- 1. Responsiveness
- 2. Device Support
- 3. Platform Independent
- 4. Browser Support
- 5. Coherent in nature
- 6. Integration
- 7. Open standard
- 8. Documentation
- St. A Container control has an aggregation called pages: and in this aggregation we are going to create array of views
- Q. Structure of an App Control
- Step 1: which view you are going to load to the app control (default view)
- Step 2: Make view aware to the app, by adding object of the view (page) to the app

```
sap.ui.localResources("myfioriapp");

//container which will have view inside

var app = new sap.m.App({initialPage:"idMain1"});

//Create View Object

var page = sap.ui.view({id:"idMain1", viewName:"myfioriapp.Main", type:sap.ui.core.mvc.ViewType.JS});

//Add the object to pages aggregation of container - App

app.addPage(page);

//The whole app as part of body of HTML

app.placeAt("content");

</script>
```

Now in the Main. View in the createContent Method we return the object of the main view. i.e page

```
createContent : function(oController) {
  return new sap.m.Page({
    title: "Title",
    content: [
```

To make it look simple, and like standard UI5 code

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Q. Steps to Create a control in the UI?

Ans. Creation of Event for the Control (eg: Button) and defining the event in the controller and add the control to the page

Q. API to navigate to another view? Ans. app.to

Q. To Access the object of the control, how to get the runtime instance of the object? Ans. sap.ui.getCore.byld ("")







