

U4A IDE Platform Overview

for Construction of UI5 Base System

OpenUI5 Application Development Solution for SAP Developers

OpenUI5

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OpenUI5

For ABAP IDE Powered by SAP NetWeaver

SAP® Certified



Contents

- I. Background of the Solution Development
- II. U4A IDE Platform Feature System Architecture
- III. Effect of Adoption
- IV. Company Introduce
- V. Implementation example
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- UI5 means java-script development frame work for development of HTML5 based UI contents, and the developed UI contents is a standard UI development toolkit which interacts with users through browser.
- Main feature
 - Laptop, Tablet, Mobile etc diverse Device Rich UI Object Library for environment provision
 - Open Source Frame Work and Web standard acceptance
 - Cross Device, Cross Browsing environment support

Why not?



Why, should there be a web screen and an interface development area separately?

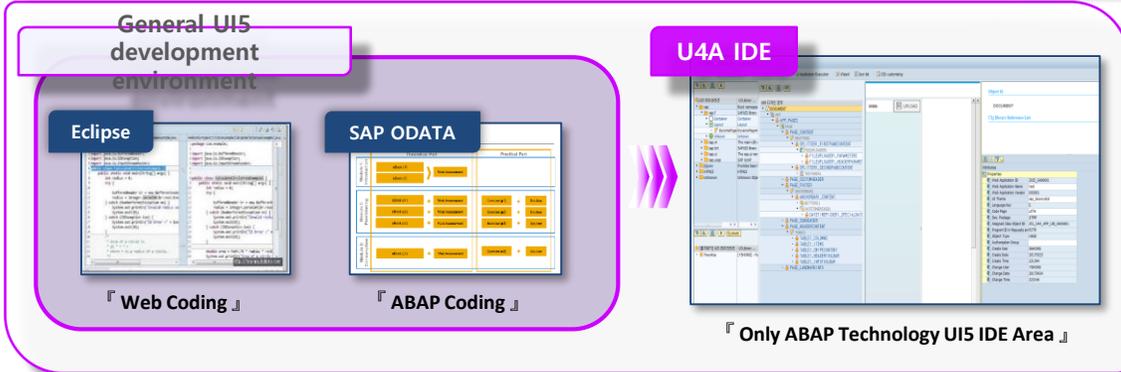


Why, can we do Web development without developing an Interface?

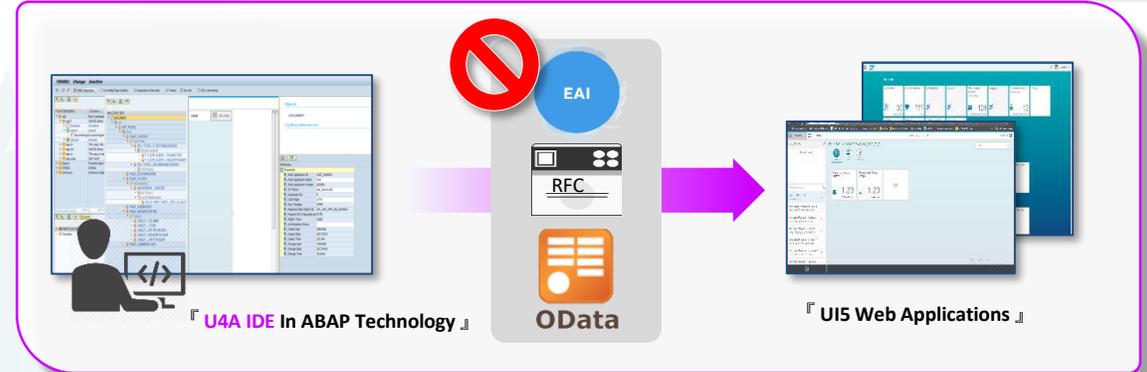


Why, Does the ABAP developer have to interface?

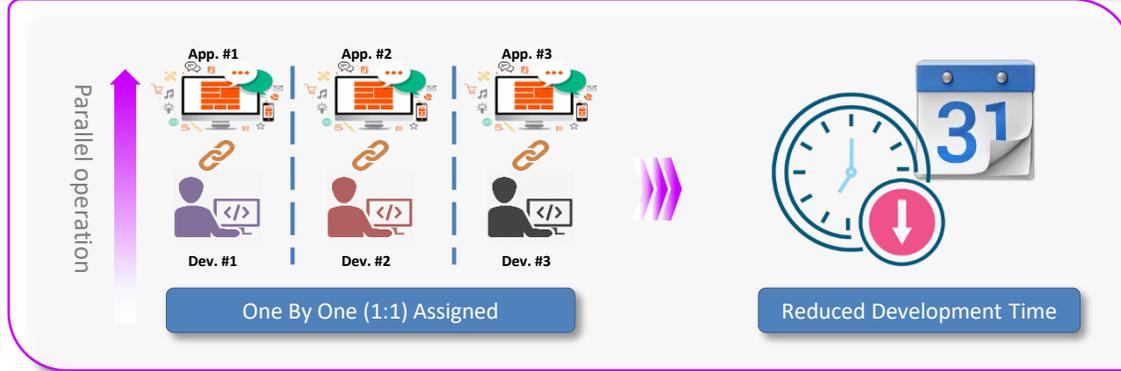
UI5 unified development environment
 (screen and business Logic provide integrated development environment)



UI5 application can be developed through No Interface
 (※ ERP DB standard No Interface Web developable)

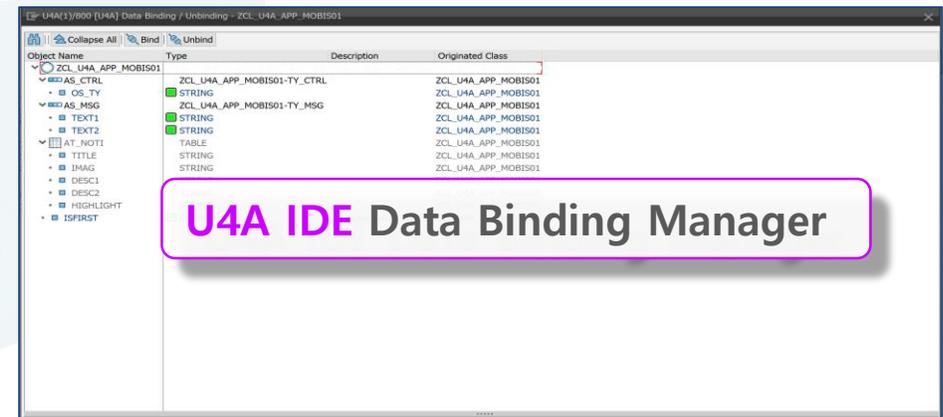
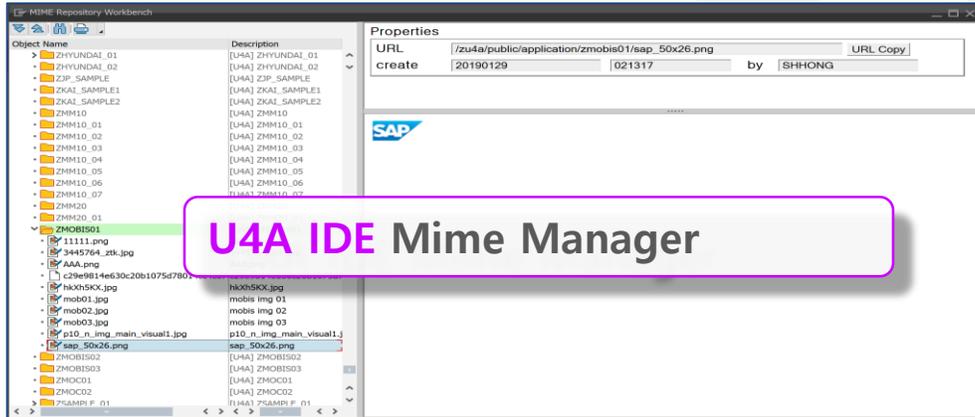
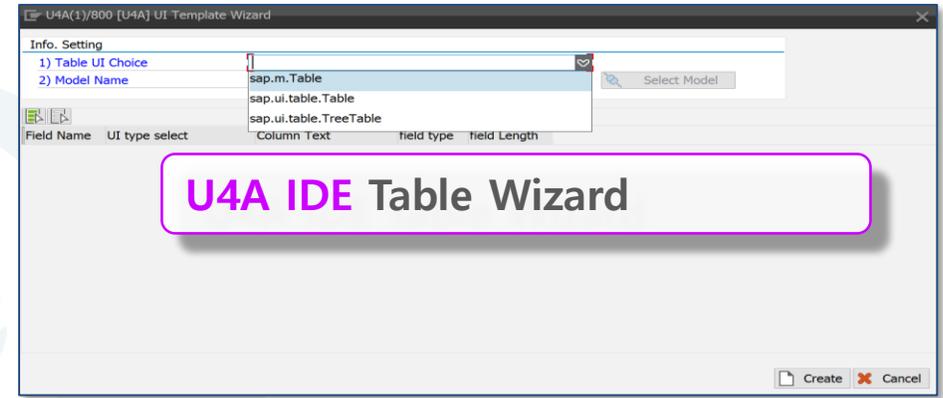
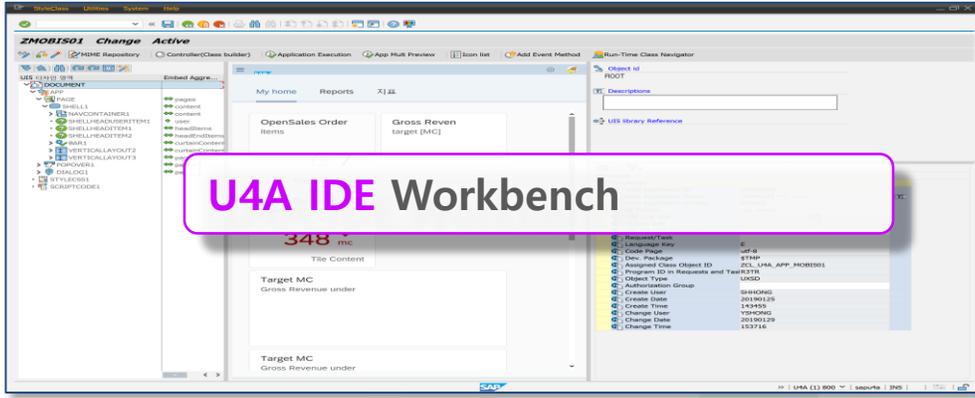


One Application, One Developer Assign possible
 (shortening development time)

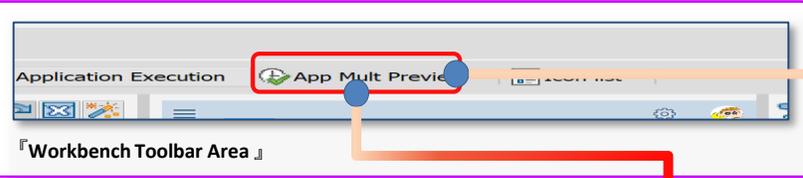


simple, Intuitive development environment provide
 (Toolkit training course takes two days)

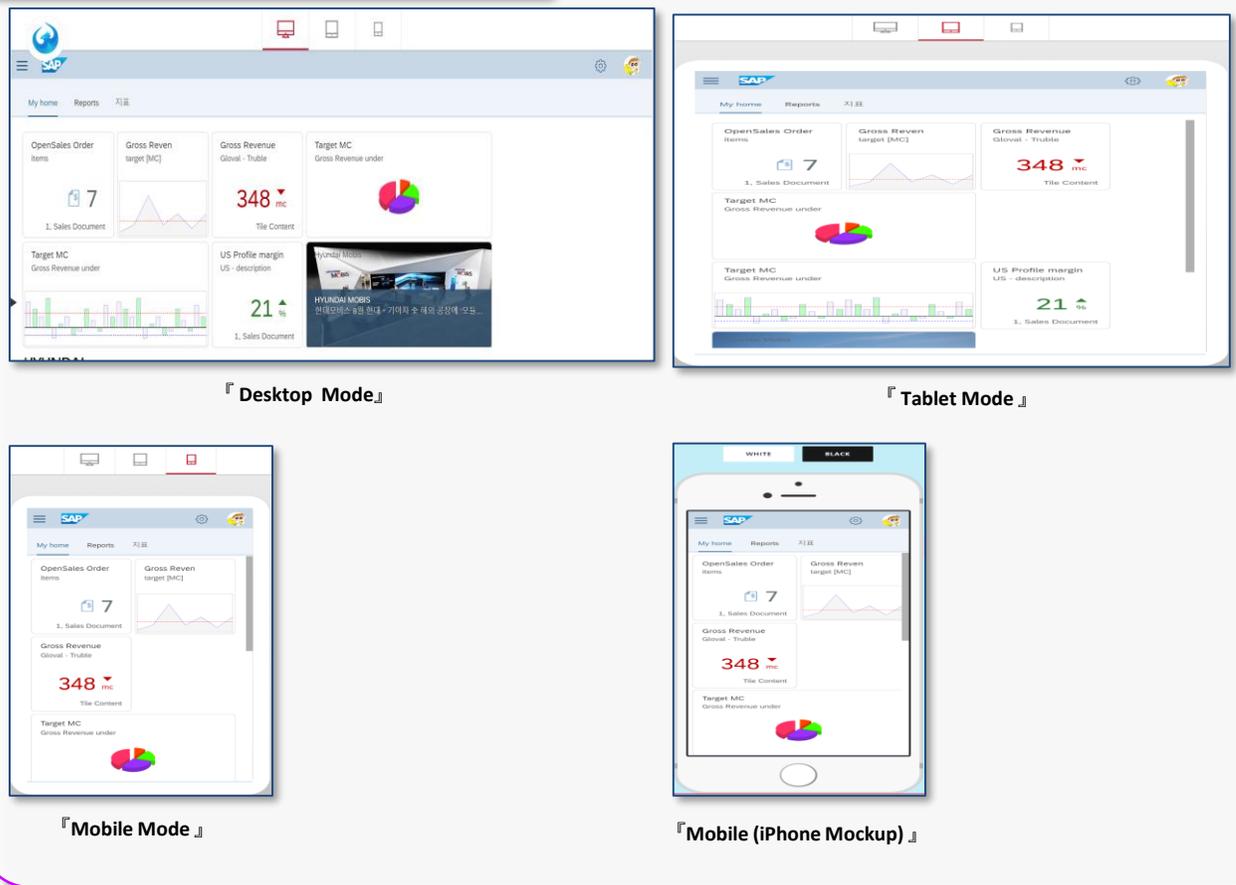




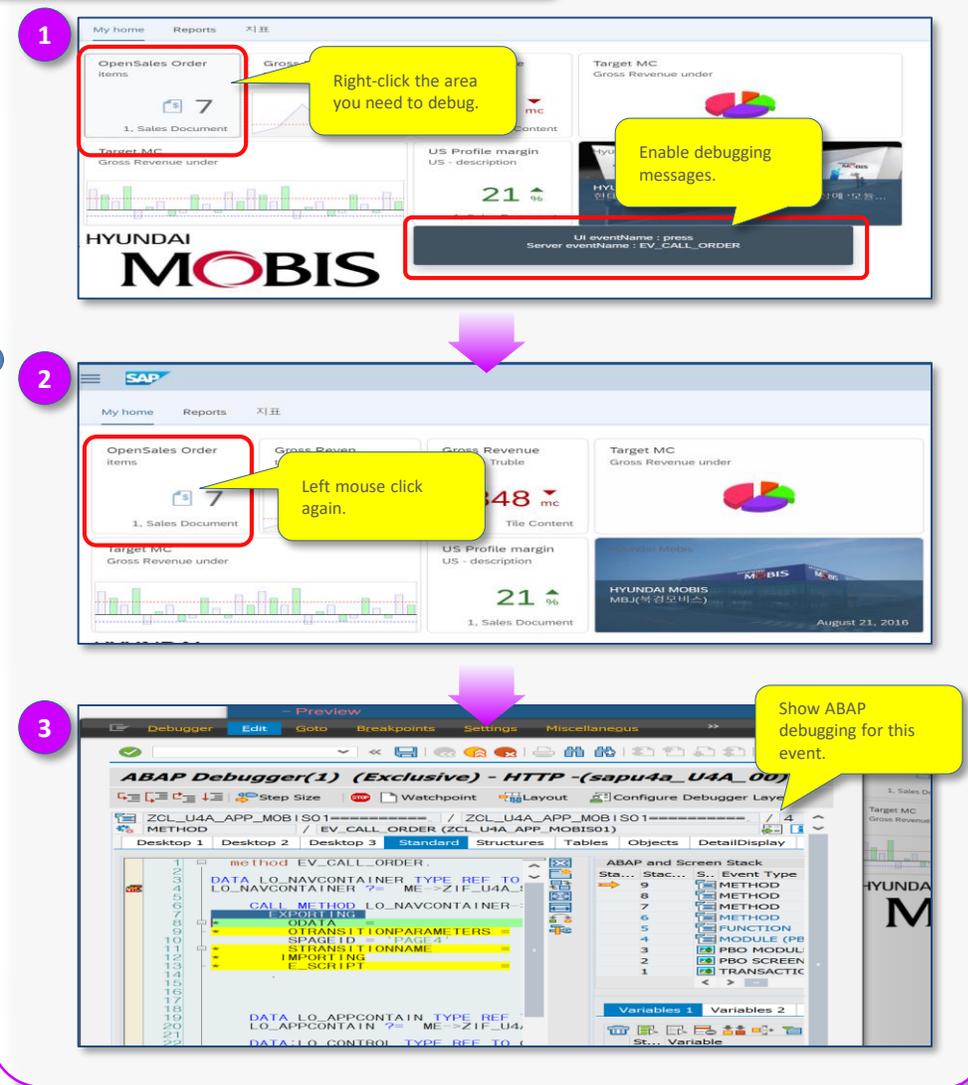
- ✓ UI5 Layout Design and Business Logic Coding can be done in the integrated development area. (Only ABAP Technology)
- ✓ Table Wizard function enables easy and quock implementation of complex Grid type APP.
- ✓ Easily manage, share and reuse additional Web elements (Image, CSS, Html, js ...) with Mime Manger.

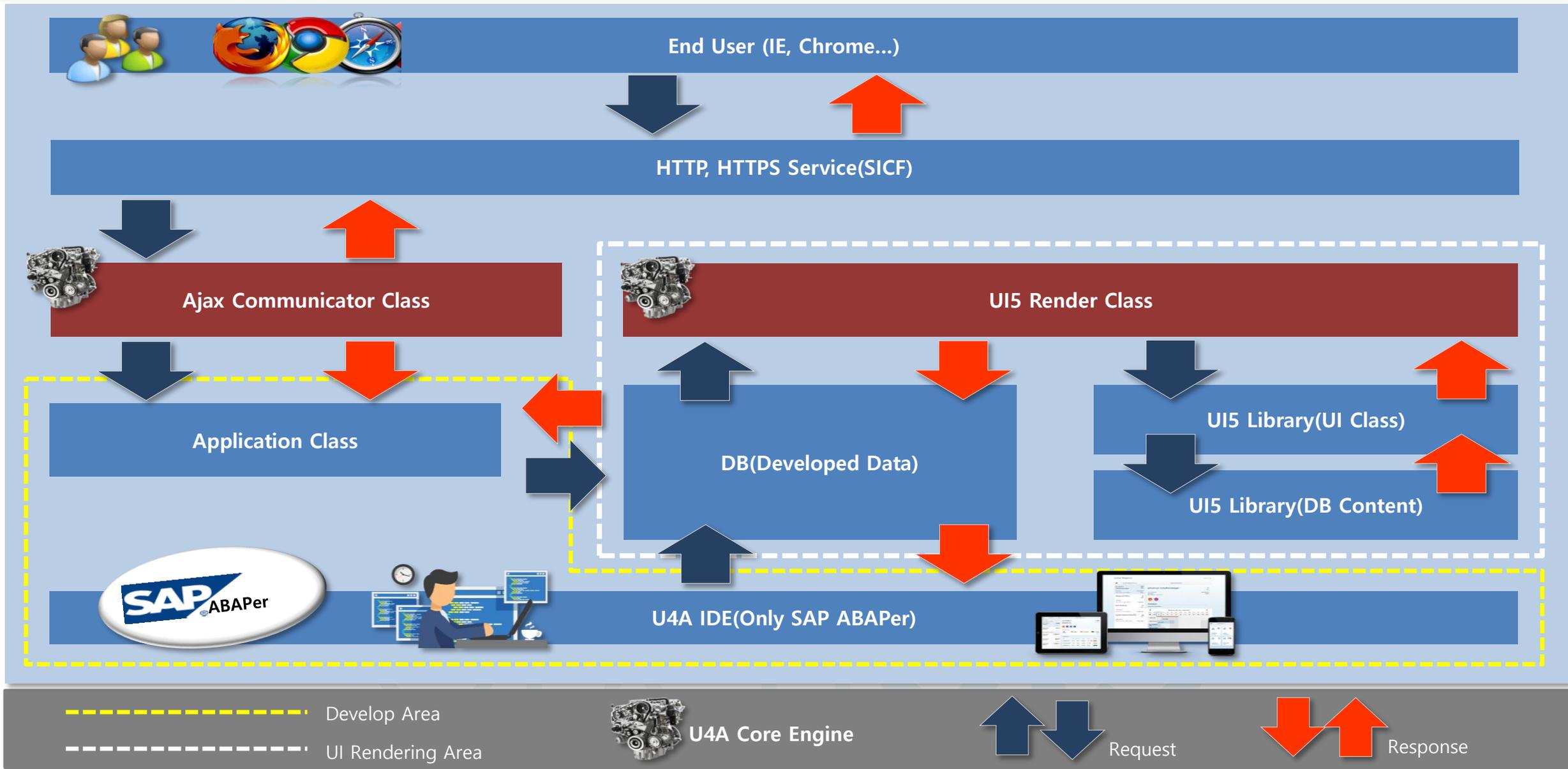


U4A IDE Simulation Mode



U4A IDE APP Debugging

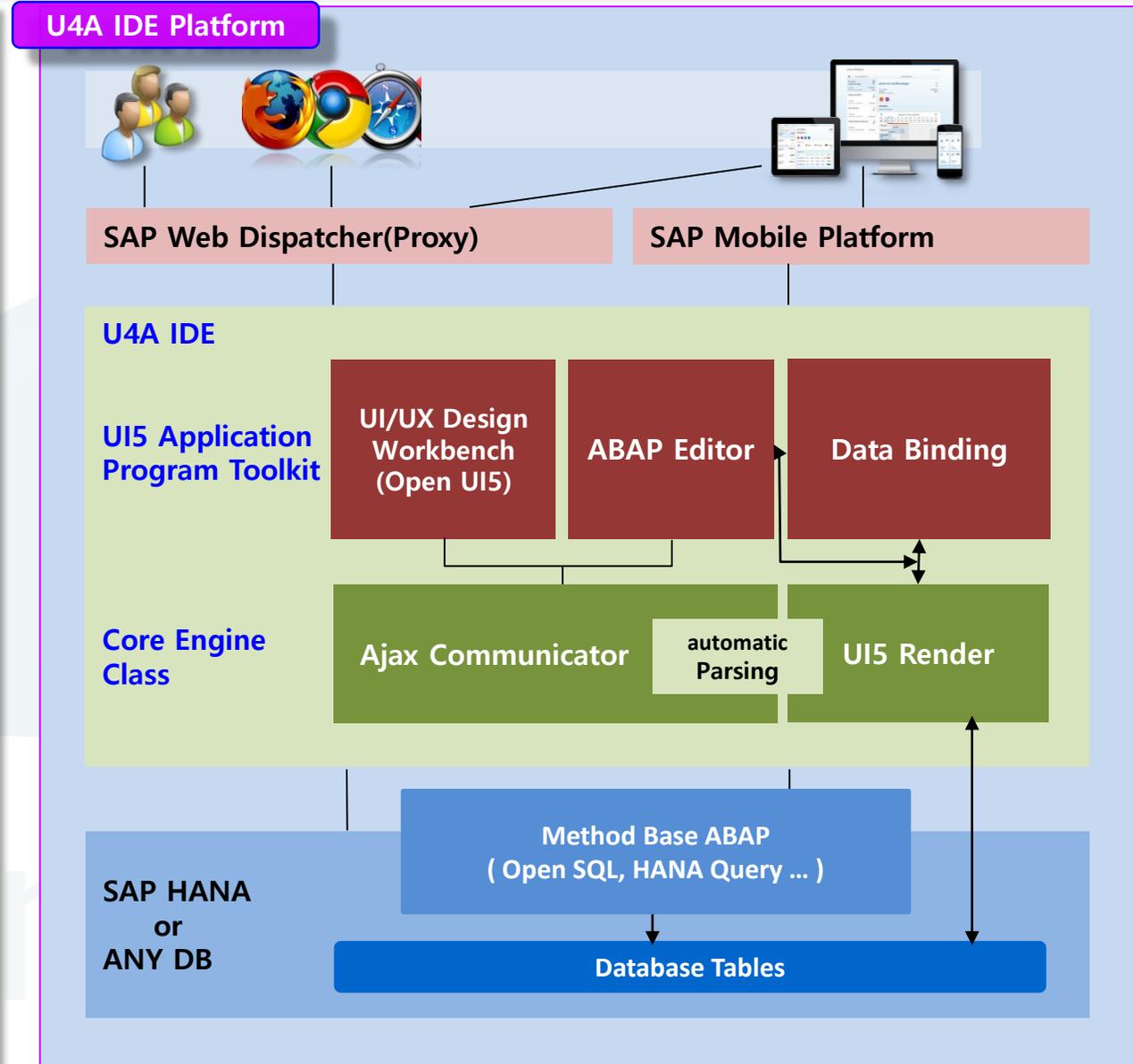
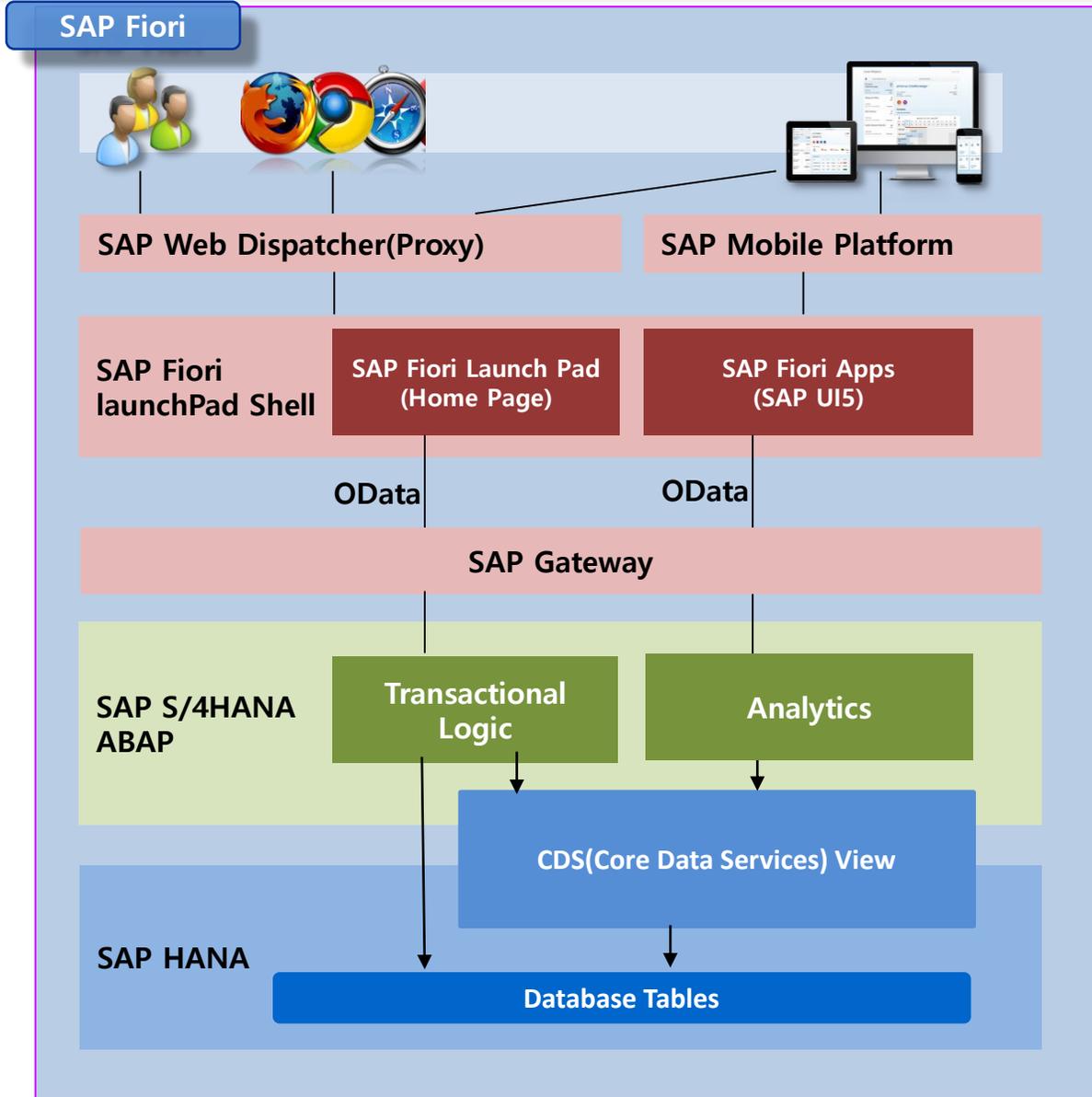






III. System Architecture

SAP Fiori vs U4A IDE Platform compare



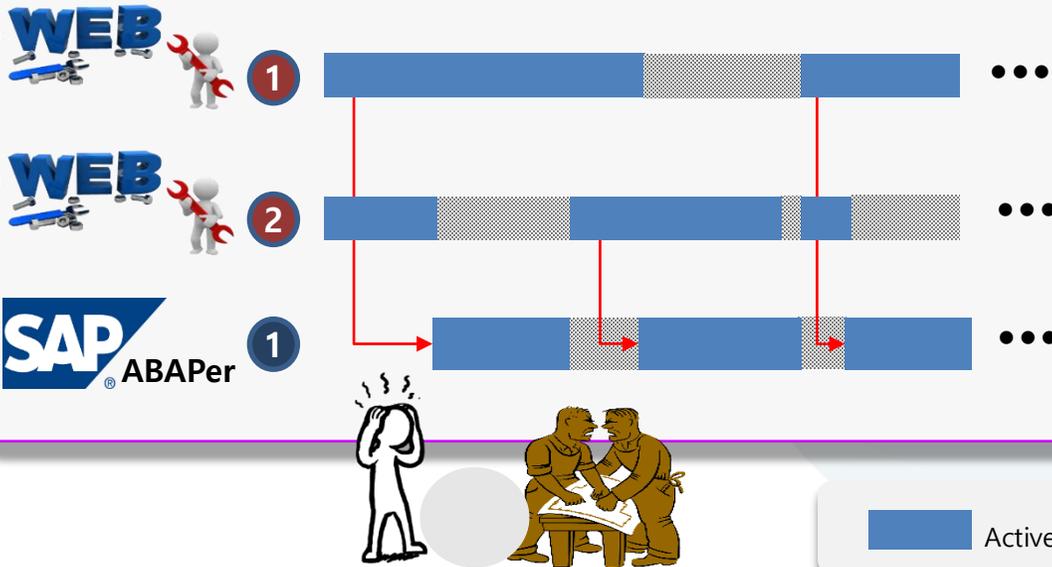


Classification	Minimum Specification	Recommended Specification														
SAP System	SAP Netwaever ECC 6.0 Ehp. 0 (ABAP 7.00 : Old ABAP Syntax)	SAP Netwaever ECC 6.0 Ehp. 5 ~ SAP S/4 HANA (ABAP 7.40 Higher : New ABAP Syntax Support)														
SAP GUI (Win GUI)	SAP GUI 740 (Patch Lev. 9 or Higher)	SAP GUI 750 (Patch Lev. 5 or Higher)														
Browser	<table border="1"> <thead> <tr> <th>Laptop (Or Desktop)</th> <th>Mobile (Or Tablet)</th> </tr> </thead> <tbody> <tr> <td>IE11</td> <td>Chrome for Android 49 (or Higher)</td> </tr> <tr> <td>IE Edge 12</td> <td>Android webview 49 (or Higher)</td> </tr> <tr> <td>Chrome 49 (or Higher)</td> <td>Safari on Ios 10</td> </tr> <tr> <td>Safari 10</td> <td>Firefox for Android 44 (or Higher)</td> </tr> <tr> <td>Firefox 44 (or Higher)</td> <td>Edge Mobile 12</td> </tr> <tr> <td>Opera 17</td> <td>Opera for Android 17</td> </tr> </tbody> </table>		Laptop (Or Desktop)	Mobile (Or Tablet)	IE11	Chrome for Android 49 (or Higher)	IE Edge 12	Android webview 49 (or Higher)	Chrome 49 (or Higher)	Safari on Ios 10	Safari 10	Firefox for Android 44 (or Higher)	Firefox 44 (or Higher)	Edge Mobile 12	Opera 17	Opera for Android 17
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Implementing General SAP UI5

Time Line



Active

Idle Time

Implementing U4A IDE Platform

Time Line



System development aspect

Developed based on One Application, One Developer. (Easy development time and east project management)



Maintenance aspect after opening the project

It is an APP developed based on SAP ABAP Technology. It can unify maintenance personnel after opening. (Reduced TCO and expected to increase ROI)



Division		SAP UI5 build	U4A IDE Platform build
Development method		<p>The diagram for SAP UI5 build shows a multi-layered architecture. At the top are three colored boxes: ABAP (blue), EAI (green), and WEB (purple). Below them is a yellow bar for 'Data requirement consultation(request/result)'. The next layer contains 'Screen Design' (purple) and 'Screen control(Logic development)' (purple). Below that are three boxes: 'Data Extraction (Logic Development)' (blue), 'Data Link (Config Set)' (green), and 'Data Extraction (Result Lookup)' (purple). At the bottom is a yellow bar for 'Function TEST'.</p>	<p>The diagram for U4A IDE Platform build shows a more streamlined architecture. It starts with 'ABAP' (blue) at the top. Below it are three dashed boxes with arrows pointing right, representing a flow. The next layer contains 'Screen Design' (blue) and another dashed box with an arrow. Below that is 'Data Extraction (Logic Development)' (blue) and another dashed box with an arrow. At the bottom is a blue bar for 'Function TEST'.</p>
Development characteristic	Development workforce	3 areas(ABAP+EAI+WEB) Simultaneous manpower with Skill Set	Only ABAP Skill Set solved with the manpower
	Resolve errors	In order to analyze the error, the problem is solved by reflecting the Log processing Logic separately (Log processing after completing error correction Logic deletion)	Troubleshooting with ABAP Debugging
	Platform dependence	Dependent : Develop separate source for each Platform	Independent : Simultaneous application of same source to all Platforms



Avatar Result	✓ Program Development			✓ Input Force		
	Division		Contents	Division		Contents
	Menu	13 EA	Big menu(3 EA) + Detailed menu(10 EA)	Design	5MD	Draft -> Review(1/2st) -> Final confirmation
	Screen	11 EA	Main menu(1 EA) + Detailed screen(10 EA) Search 2 EA & Input Output 8 EA	Development	15MD	prediction : 28MD (Search 4 / Input Output 24) Real : 15MD (Search 3 / Input Output 12) -> Savings without recycling existing functions
Function	21 EA	Reuse existing items(18 EA), New(3 EA)				

Division		SAP UI5 Construct	U4A Platform Construct
Development Productivity	Number Of Days	<ul style="list-style-type: none"> ✓ expectation : 41MD Search 7MD(3.5 * 2) + Input Output 34MD(4.5 * 8) ✓ Unit function development standard Search 3.5MD (Screen 2 / Function 1 / EAI 0.5) Input Output 4.5MD (Screen 2 / Function 2 / EAI 0.5) 	<ul style="list-style-type: none"> ✓ expectation : 28MD Search 4MD(2 * 2) + Input Output 24MD(3 * 8) ✓ Unit function development standard Search 2MD Input Output 3MD (Screen / Function division & EAI Unnecessary)
	Manpower Input	✓ Development by division & Collaboration progress WEB screen development + ABAP function development + EAI development	✓ Resolved with ABAP staff with U4A experience
	Problem Solving	<ul style="list-style-type: none"> ✓ Error Log Processing Logic Resolve issues through reflection ✓ Log processing after completing error correction Logic deletion 	✓ ABAP Debugging with Debugging (error Log process Logic Unnecessary & Easy to test)
	Platform Dependence	✓ Platform each(PC / tablet / mobile)as a separate source development	✓ Simultaneously apply the same source to all platforms
Operation Efficiency	Manpower Input	✓ Three (ABAP + EAI + WEB) or Two (ABAP + EAI/WEB) Skill Set manpower Requires configuration	<ul style="list-style-type: none"> ✓ ABAP Skill Set Only manpower needed (Existing manpower conversion possible) ★ U4A education : ABAP + U4A T-Code(ZU4A_WB) Instruction
	Test Ease	<ul style="list-style-type: none"> ✓ Difficult to verify directly in the operating environment ✓ To identify the cause of the error, three areas(Screen / Function / EAI) Need verification 	✓ Debugging ABAP features in the production environment



General Information

- Company : InfoCG Co.Ltd
- Business : 2010.05 ~ The Present
- Main business areas
 - Solution Business : U4AIDE(UI5), RMS, PMS, MES, GW, etc
 - IT Consulting : Solution Consulting and ISP, PI, BPC etc
 - System Integration(SI/SM) & IT Outsourcing
- Technical personnel composition

Technical rating	Ratio	Sum	Solution	Consulting	S/W
Limited technician	14%	3	2	1	
Advanced technician	24%	7	2	2	3
Intermediate technician	38%	7	1		6
Beginner technician	24%	5			5

Certification / Assets and Partners

- Certification
 - Venture business certification
 - Certification of excellent technology evaluation(TCB:T-5)
 - Certified as dedicated research department for solution development
 - U4AIDE Platform certification(SAP SE/German)
- Assets
 - U4AIDE(UI5-based integrated development tool) Solution copyright registration
 - Info Rental(RMS) Solution copyright registration
 - Info GW/KMS Solution copyright registration

Partners

Partners		Customer(Application site for UI5)	
Hanwha System(ICT)	POSCO ICT	Hyundai Oilbank	POSCO DAEWOO
Daewoo Information System	Dongyang Networks	Seoul Semiconductor	Hyundai Motor
LGCNS	KTDS	KAI	
SKCNC	Booyoung CNI etc	Jeju ShinhwaWorld	



INFOCG.,LTD.

U4A(openUI5 For ABAP) IDE Platform

- > Appstore
- > DemoApp
- > References

“SAP ABAP Developer can develop SAP UI5 Application as well”

SAP ABAP developers are SAP module experienced people who know SAP business process well enough to implement.

However, in real situation, SAP ABAP developers are lack of experience and knowledge of developing web, and they are hard to implement UI5 based UI/UX. And web developers are lack of experience and knowledge on SAP module, and hard to implement SAP module transaction interface.

Under the circumstance, a special tool kit for UI5 U4A IDE(ABAP based UI5 total development environment) has been marketed, which may develop UI5 based UI/UX and SAP module transaction concurrently without SAP ABAP developers' experience of web development.

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[Logo Description](#)

Key Features complimenting SAP Solutions
Since U4A IDE provides, without interface i.e. RFC, JCO, SAP Odate, unique solution engine which does automatic parsing with ABAP (coded by ABAPer) to AJAX and JSON. so, there is no burden of linkage with the screen. (UI5 Render Class)

Customer Benefits

- For the aspect of system development establishment In the SAP UI5 implementation project , because of dualization of developing manpower (e.g. Web, ABAP), manpower leakage may be occurred. However, in case of adopting/implementing the U4A solution, all the manpower are unified as SAP ABAP developer. So, management of development schedule, human resource is very effective and economical.
- For the aspect of maintenance after project opening For the implementation of SAP UI5, operation & maintenance of web developer and ABAP developer are required. But, in case of adopting and implementing U4A solution, only SAP ABAP developers are required, therefore human utilization and user support are much more economical.

Version

Symbol	Client	Business System	Remarks
	SamsungS1	Mobile customer product contract system(Reactive web)	Application of UI5 solution (Filenut project)
	Nexus	Estimation system for each model	Application of UI5 solution (Filenut project)
	Hyundai Oilbank	Material warehouse inventory management system	UI5solution , Kiosk application
	Seoul Semiconductor	Career management system	UI5solution (WDA -> Advanced with UI5) Application
	Seoul Semiconductor	CRM(Customer relationship management) system	Application of UI5 solution
	Hyundai Oilbank	Sales facility management system	UI5solution applied integration(Agency)
	Hyundai Oilbank	Budget, Budget management system	Application of UI5 solution
	Seoul Semiconductor	PLM system	Application of UI5 solution
	KAI(Korea aerospace industries)	종포(PDA-Bar Code Warehouse management) / Purchase portal(Inside, Outside) secondary	Application of UI5 solution
	Jeju Shinhwa World	Asset management(Mobile-QR Code)	Application of UI5 solution
	Hyundai Motor	ERP Global management index integrated monitoring system	Application of UI5 solution
	POSCO DAEWOO	Loading insurance management system(Reactive web)	Application of UI5 solution
	Hyundai Oilbank	QR code material warehouse inventory management system(Reactive web)	Application of UI5 solution (Mobile QR code) Application



Q&A and DEMO



DEMO Site....
ID : U4AFIORI
PW : u4aide

OpenUI5

U4A IDE - a complete development tool set for building UI5 environment , it's an editor which is capable of designing, coding and testing of the screen simultaneously.

THANK YOU!!

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