**DESIGN DOCUMENTATION**

**LEARNING IN UI5**

By: Roshan Gupta

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# **Team**

# **PM Lead**

Jayananda A Kotri

# **Additional Members**

1. Roshan Gupta
2. Amit Sharma
3. S D Raghavendra Chintapalli

# **Requirements**

# **Project Requirements**

1. In the Current home page of LMS the individual components are scattered. In a single page there are loads of details which represent unnecessary information. It causes confusion and reduces attractiveness.
2. The main idea was to develop prototype by taking in consideration of all flaws that exists in current Learning home page and minimize unnecessary information. To provide better user experience.
3. Consumption of existing LMS API. Redesign the page with new UI5 Controls and keeping into account the existing features of current application.

# **Design Requirements**

1. The design should be UI based on a mockup design which was provided and ensure the functionalities remain intact.
2. Some Parts of UI mockup was based on exiting home page like search box, dropdown menu and filter box etc.

# **Design/Approach**

# **Overall Design Approach**

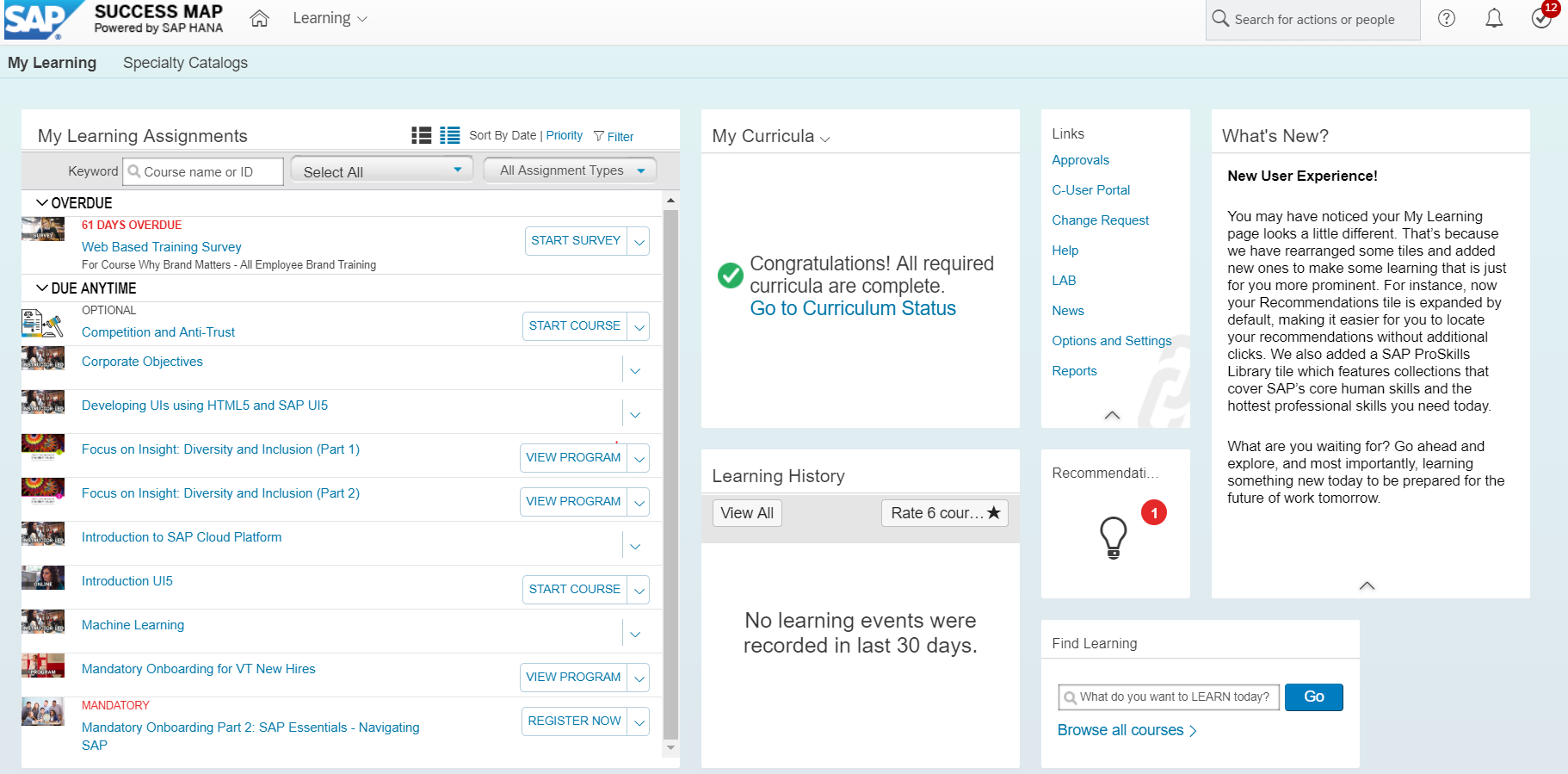
The current implementation of LMS home page using existing backend was ambiguous because there was unnecessary information in one page which causes confusion for end users. The UI is not interactive from user’s perspective.

The main purpose here is that to create more refined UI considering all the features that exist in the application, use existing ODATA api of LMS which is publicly available and experiment new features in application based on api.

# **UI Design**

# **Existing System Design**

The current user home page of LMS is as follow



# **Proposed System Design**

# **SAPUI5 UI Design**

SAPUI5 supports cross-platform (Desktop & Mobile). It is extended from HTML 5 and provides several UI controls which is helpful in developing rich and interactive web application. GUI can be designed rapidly as there are SAP customized JS libraries available. Without much of coding UI Controls can be added in the web pages. SAPUI5 is supporting any data transfer like JSON, XML, OData, etc.

First, I created a mock up on bulid.me for this project to test different controls, checking the functionalities of different controls and which suits better for the current project. After successfully creating the mock up I started implementing in WEB IDE.

The project’s entire layout was designed in single object page which will serve the purpose of different pages. There were different tabs on top of object page each tab represents a single component. As you can see in the current home page of LMS all the information is packed into single page the purpose was to minimize all overloaded information.

All different tabs in the UI displays the result of different application. First one is LEARNING ASSIGNEMENT which mimics the current home page of LMS. the features remain the same except some slight changes, but design was completely different.

Second one is PLANNING CALENDAR which displays the information about courses that has been assigned to users. The courses are categorized into different fields.

Third one is LEARNING HISTORY which display the course completion history of user and we give an option to add their course certificate on blockchain and once added later they can verify the courses from blockchain,

Fourth one is LEARNING PATH where users must add their objective in a textbox, based on objective we will generate learning path so proceeding further will be easier in their learning plans.

# **Current Implementation**

# **Description**

I created a different design for LMS home page keeping all the features intact and adding some extra functionalities. The recommendation page is empty for now because there was no public api were available to consume it, but it can be implemented by creating wrapper api from local system. For Now it’s a lightweight application which is very attractive and smooth, interactive to user.

# **Technology Used**

# **SAPUI5**

It’s a framework where you can build robust web application. This project was entirely build using UI5 .

# **LMS API**

For creating this project, I used LMS api, there are various api available in LMS one

can consume according to requirements.

GET /learning/odatav4/public/user/learningplan-service/v1/$metadata

For LMS API details you can follow this link

<https://help.sap.com/viewer/5aab9bef78fc4c4fa199c1f7aa142720/1808/en-US/e21c9d9c8eb44338bac545ba97052658.html>

To Consume LMS Api you must follow some steps.

* In this project the data was consumed from this test system

<https://qmh13aqp01t03.plateau.com/learning/admin/nativelogin.jsp>

adminID/password: PLATEAU/PLATEAU or PLATEAU/PLATEAU1

<https://qmh13aqp01t03.plateau.com/learning/user/nativelogin.jsp>

userID/password: User\_421/ root

* Since all the Api of LMS uses Auth 2.0 so before making any request you must post client credentials to fetch the token. So, that you can pass token as authentication before making any request.

{ "client\_id": "qmh13aqp01t03",

"client\_secret": "7fe1f6330b8edb7d431e9b442e3f5fd9b95305b1c71fe659788adc9b34df0aaa5de16db1c3cfb215c4ab83620ae4b22b",

"grant\_type": "client\_credentials",

"scope": {

"userId": "User\_421",

"companyId": "qmh13aqp01t03",

"userType": "user",

"resourceType": "learning\_public\_api”} };

# **Screenshots**

# 

