# Architecture Review Board (ARB) Document

## SAP Experience Fragment: Web Component Product-Tour

Document Version: 1.0

Date: February 5, 2024

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| --- | --- |
| **Project Name** | SAP Experience Fragment: Web Component Product-Tour |
| **Requester** | UDEx Team |
| **Department** | Digital Experience |
| **Date Submitted** | February 5, 2024 |
| **Desired Implementation Date** | February 29, 2024 |

## 1. Change Description

### 1.1 Current State

Web content authors currently require developer assistance to create and deploy product tours on SAP.com. The process is manual, time-consuming, and prone to errors.

### 1.2 Proposed Change

Implementation of a custom web component that enables business users to create and manage product tours through Microsoft Word documents, with automated publishing through Adobe Edge Delivery Services.

### 1.3 Business Justification

* Reduces time-to-market for product tour content
* Eliminates developer dependency for content updates
* Improves content author experience
* Reduces maintenance costs
* Enables rapid content iteration

### 1.4 Impact Assessment

|  |  |
| --- | --- |
| **Category** | **Details** |
| Systems Affected | SAP.com content management system, Adobe EDS |
| Users Impacted | Content authors, web developers, site visitors |
| Dependencies | Adobe EDS, Microsoft SharePoint, SAP CDN |
| Risk Assessment | Low to Medium â€¢ Content synchronization delays â€¢ Image path resolution issues â€¢ Browser compatibility concerns |

## 2. Technical Details

### 2.1 Technology Stack

* Web Components (Custom Elements v1)
* Vanilla JavaScript (ES6+)
* HTML5/CSS3
* Adobe EDS API
* Microsoft SharePoint Integration

### 2.2 Architecture Components

|  |  |
| --- | --- |
| **Component** | **Description** |
| ProductTour Class | Core web component implementation |
| Event System | Custom event handling and analytics |
| Content Parser | HTML to structured data conversion |
| DOM Renderer | Dynamic UI generation |
| State Manager | Component state handling |

### 2.3 Integration Points

* Adobe EDS content delivery
* Microsoft SharePoint document storage
* SAP CDN for component distribution
* Analytics integration for user tracking

### 2.4 Security Considerations

* Cross-origin resource sharing (CORS) configuration
* Content security policy (CSP) compliance
* Secure content delivery through HTTPS
* Input sanitization for user-generated content

## 3. Resource Requirements

### 3.1 Estimated Budget

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| --- | --- |
| **Activity** | **Hours** |
| Development | 160 |
| Testing | 40 |
| Documentation | 20 |
| Training | 16 |

### 3.2 Required Personnel

* 1 Senior Web Developer
* 1 UX Designer
* 1 Technical Writer
* 1 QA Engineer

### 3.3 Timeline

|  |  |
| --- | --- |
| **Phase** | **Duration** |
| Development | 4 weeks |
| Testing | 1 week |
| Documentation | 1 week |
| Deployment | 1 week |

## 4. Architecture Principles Compliance

### 4.1 Enterprise Architecture Principles

|  |  |
| --- | --- |
| **Principle** | **Status** |
| Aligns with business strategy | âœ“ |
| Follows security standards | âœ“ |
| Maintains data integrity | âœ“ |
| Ensures scalability | âœ“ |
| Supports maintainability | âœ“ |
| Promotes reusability | âœ“ |
| Considers cost-effectiveness | âœ“ |

### 4.2 Technical Standards Compliance

|  |  |
| --- | --- |
| **Standard** | **Status** |
| Follows approved technology stack | âœ“ |
| Meets performance requirements | âœ“ |
| Adheres to integration standards | âœ“ |
| Complies with security policies | âœ“ |
| Meets availability requirements | âœ“ |
| Follows data governance standards | âœ“ |