S-Square - LowCode/NoCode (LC/NC) Enabling Technology Presentation

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Current Challenges in Traditional Application Development

Long Development Timelines

- Custom development with standard SDLC processes

- Long incubation period before seeing a MVP

- Minor changes require long turn around time for design, build and testing.

High Capital Expenditure and Operating Costs

- Investment in Software platforms and Infrastructure for custom development

- Higher support costs due to diverse support requirements

Disparate Technology Landscape

- Multiple small projects using disparate technologies

- No uniform platform to manage small developments

Developer Shortages

- Developer shortages and skill-set challenges

- Multiple small productivity projects get deprioritized

6 Generations of Programming Languages

First generation (1GL) - machine-level programming language used to program first-generation computers
Examples: machine-level programming languages

Second generation (2GL) - assembly languages.   Examples: Assembly

Third generation (3GL) - more machine-independent (portable) and more abstract therefore more programmer-friendly than previous generations of languages
Examples: Fortran, COBOL, BASIC, Pascal, C, C++, Perl, Python, Java, JavaScript, Ruby, PHP, C#

Fourth generation (4GL) - include support for database management, report generation, mathematical optimization, GUI development, or web development. Examples: ABAP, Unix Shell, SQL, PL/SQL, Oracle Reports, R
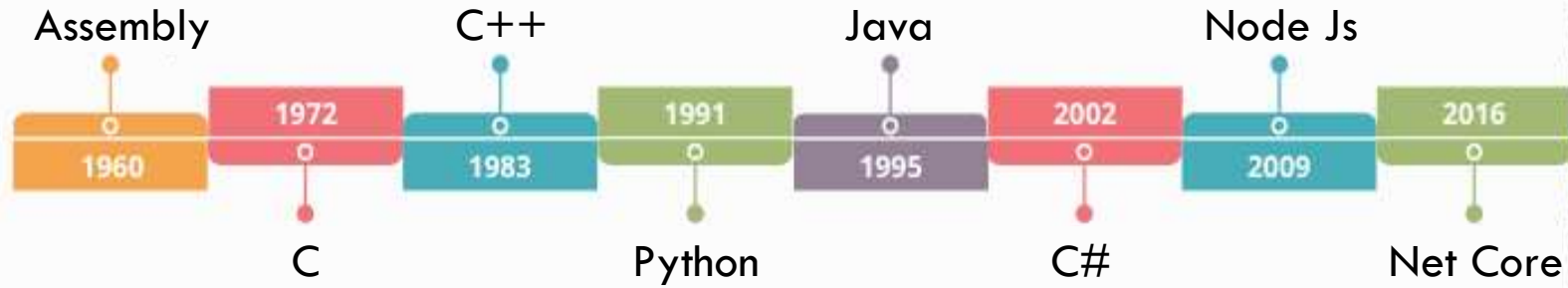
Fifth generation (5GL) - any programming language based on problem-solving using constraints given to the program to make the computer solve a given problem without the programmer, rather than using an algorithm written by a programmer.   Examples: Prolog, OPS5, Mercury

Sixth generation (6GL) - programming language based on visual development. The overall umbrella term for these is "NoCode".   Examples: Appian, WEM.io, Bubble.io

Digital Transformation. Legacy Modernization. Business Velocity.

80%
COST REDUCTION

Empowers employing business knowledgeable (techno-functional) resources instead of costly, hard to retain code-linquists to build, deploy and maintain secure scalable enterprise-grade software.

10%
FASTER TIME-TO-MARKET

View app development in real-time. Deploy and update applications with a single click. Deliver software 10 times faster than traditional programming methods.

100%
ALIGNED TO BUSINESS

Translate innovative business ideas to custom software built with no code app builder at the speed of, and fully aligned with, business requirements.

Banks, Financial Services and Insurance >

Healthcare >

Telecommunication >

Education & Training >

Manufacturing >
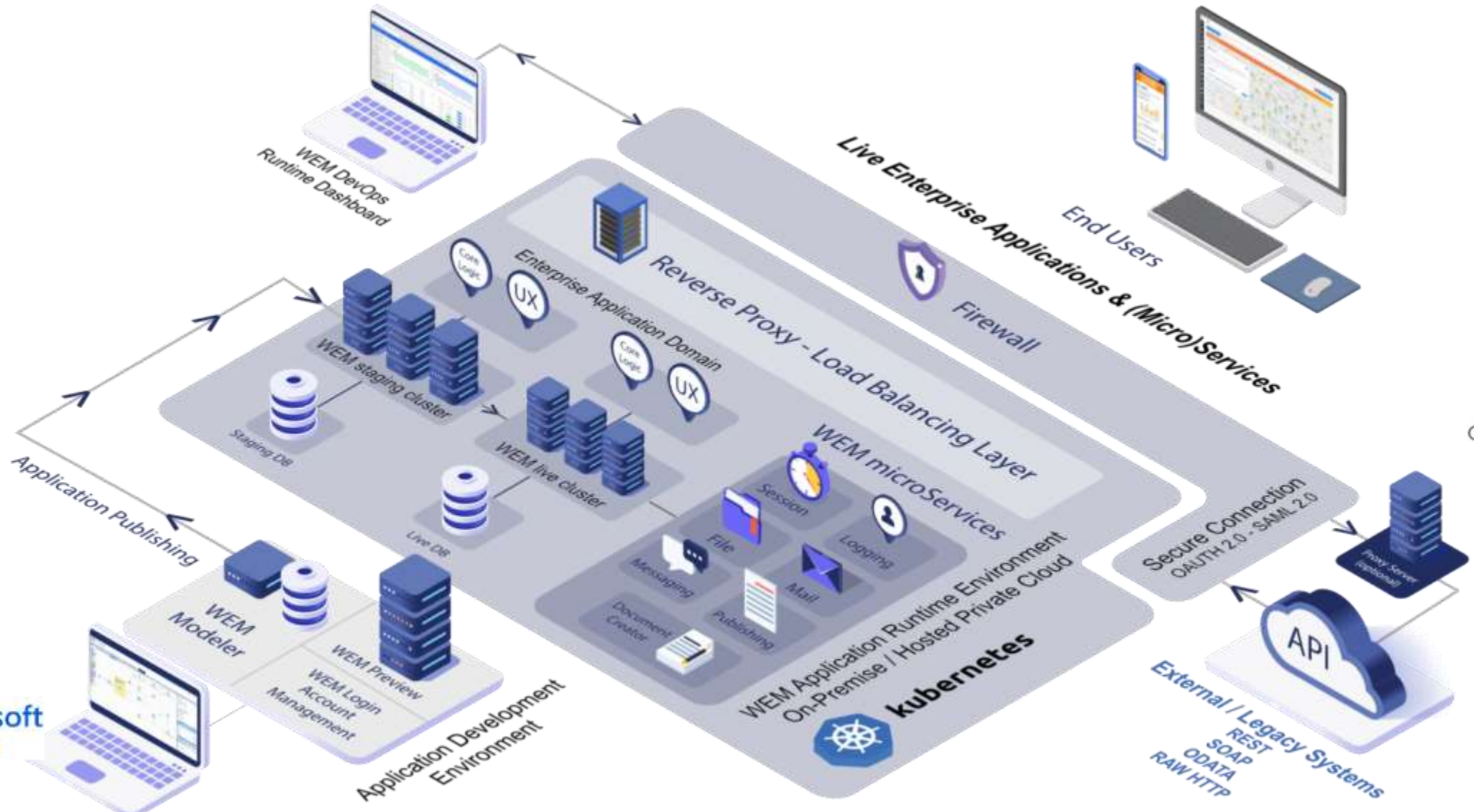
Public Sector >

Automotive >

Real Estate >

SCALABLE, SECURE CLOUD ARCHITECTURE

FLEXIBLE DEPLOYMENT OPTIONS FOR SHARED HOSTING, ON-PREMISE APPLIANCE AND PRIVATE APPLICATION CLOUD

3rd Party LCNC Marketplace Product Evaluation

Criteria	WEM	Betty Blocks	Power Apps	OutSystems	Mendix
Category	No Code	Low code	Low code	Medium to high code	Low code
Platforms	Web, native apps	Web apps	Web, native apps	Web, native apps	Web, native apps
Data Model	Drag & Drop	Visual Editor	Tables	Visual Editor	Visual editor
Visual Editor	Web-based	For backend apps	Web-based	Many designer	Web-based, desktop-based
Workflows	Drag & Drop	Action Modeler	MS Flow	Visual modeler	Visual modeler
Look & Feel	Custom templates	Custom js/css/html	Customizable	Custom js/css	Custom js/css
Environment	Public, private cloud, on premise	Public cloud, on premise	Public, private cloud, on premise	Public, private cloud, on premise	Public, private cloud, on premise
Release Management	Fully	Fully	Partially	Fully	Fully
Integration	All API standards	JSON, SOAP/REST	Office365, REST	SOAP/REST	SOAP/REST

Use Case – EXTENDING & MODERNIZING EDI WITH SUPPLIERS

With a workforce of more than 288,000 and a turnover of €154 billion, this global auto manufacturer is one of the largest premium car producers and the world's largest commercial car producer; providing financing, leasing, fleet management, insurance, and innovative mobility services.

CUSTOMER CHALLENGES

- A homogenous service entry for company's 23,000 suppliers' network
- Integration of several functionalities into one application
- Required a flexible application
- Timeframe restricted implementation

PROBLEM

They wanted to customize their Electronic Data Interchange service to provide a homogeneous service entry to their supplier network of more than 23,000 suppliers. They wanted to combine several important functionalities of EDI into one application that had an adjustable nature for changing future requirements and, a modern look and feel.

WEM ADVANTAGES

- Large scale Smart Portal Implementation
- **Integration** with various other systems and EDI
- Provide custom monitoring and reporting
- **Secure** by using existing active directory services
- Faster agile development
- **Easy to extend** the application
- Fast **return on investment**

SOLUTION

Provided a large-scale smart portal implementation, integrating the application with various systems and EDIs. The WEM developed application also provided for custom monitoring and reporting. The application was secured using existing active directory services. As per the requirements, the application was given a modern look and feel and an attractive graphical user interface.

Representative WEM Enterprise Customers

Thank You

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