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
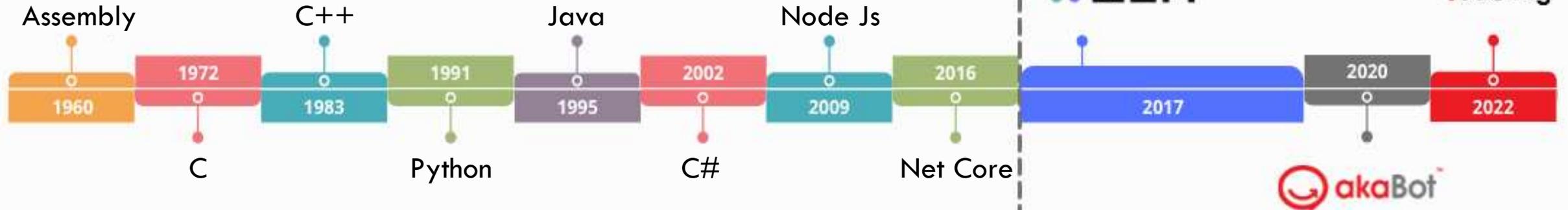
Traditional Coding

Requiring expensive, hard to retain code-linquists

No-Code

Empowering transforming support to employ business-knowledgeable techno-functional resources

Assembly   C++   Java   Node Js

1972   1991   2002   2016

1960   1983   1995   2009

C   Python   C#   Net Core

2017   2020   2022

WEM   edSling   akaBot

Traditional computer languages require programmers to translate their thinking process into code built for the CPU and memory

Optimized for how we humans think. Converting natural thinking process into working software

Digital Transformation. Legacy Modernization. Business Velocity.

80%
COST REDUCTION

Empowers employing business knowledgeable (techno-functional) resources instead of costly, hard to retain code-linguists 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.
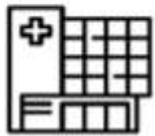
100%
ALIGNED TO BUSINESS

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 >
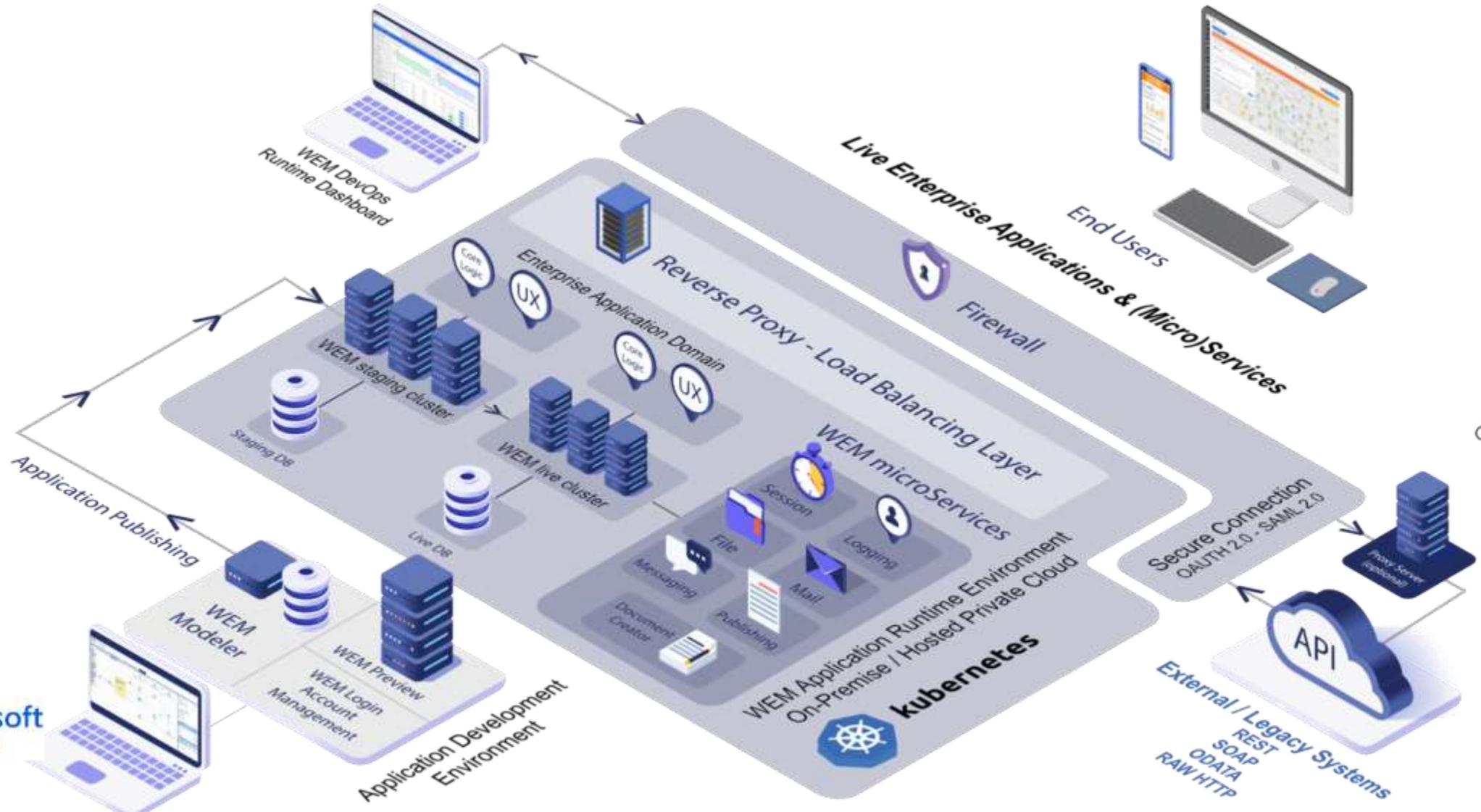
Manufacturing >

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 – Enterprise Resource Planning System

Based in Australia, this company provides high-quality entrance gates of all types at the least prices. They are one of its kind companies offering a varied product range to its customers. With over 30 years of experience in the design, manufacture, and installation of their product range, they work towards providing high-level security and safety to commercial as well as home properties.

CUSTOMER CHALLENGES

- Complete digitization of the order management and resource planning process.
- Incorporation of costing tool for all the parts.
- The company had over 15 suppliers with 100 different parts, therefore the integration of all the suppliers into the supplier management system was a complex task.

PROBLEM

This company wanted a resource planning tool for their enterprise. They had a range of raw materials which are used in their manufacturing process and each of these parts is to be sourced from different suppliers and checked for the best price. Therefore, to get a quote, one must be aware of what all parts would be required and in what quantity and this all was not possible manually. Hence, they needed an application for the same.

WEM ADVANTAGES

- **Complete Agile development, week to week results, short time to market**
- **Use of existing data from legacy systems/integration with legacy systems**
- **Cloud solution offers flexible workspaces (not tied to a location)**
- **Easy to extend the application**
- **Fast return on investment**

SOLUTION

We developed a complete Enterprise Resource Planning tool for the company with features like Order Management System, Quote Generation, Supplier Management, Proposal Generator, and a Costing tool. The company has a network of over 15 suppliers located at different locations therefore it used to take a lot of time to generate the quote and place an order. The application so developed reduced the processing time from 6 hours to 10 Minutes.

Representative WEM Enterprise Customers

Thank You

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