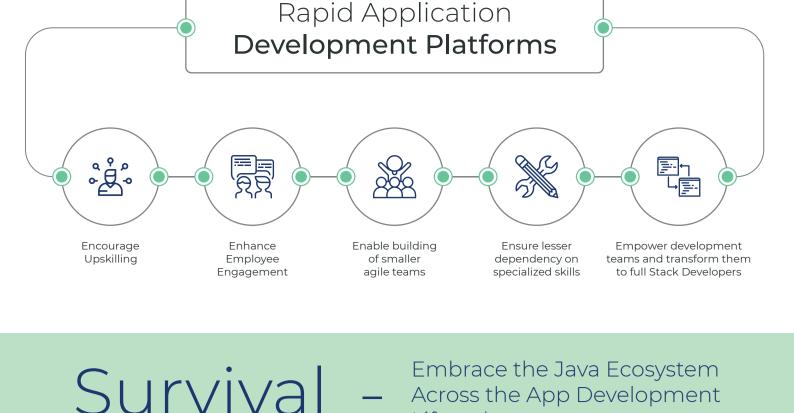
The Survival, Revival &

wavemaker

Arrival of Java Developers

Mobile and web application development have become the protagonists of digital transformation stories. To accelerate modernization initiatives and upskill existing development teams, companies are increasingly embracing rapid application development platforms.



Lifecycle

devices and systems. Even your office printer runs Java. Java is still used because of its simplicity, readability,

"Write once, run anywhere". Java is used everywhere, on all platforms,

UI

Is it a Curtain Call for Java yet?

Many Java-based enterprise applications lack modern UI. Enterprise application development teams use a combination of technologies

portability and security.

to modernize legacy Java-based systems. How the Java Ecosystem can be adopted across

the entire app development lifecycle

Development

- Peter Drucker

Future-Proof the Developer Workforce by

your development team should be equipped with:

interaction, engagement and response.

and would use it again.²

get faster results.

Arrival

development simpler and faster:

Development Aspect

To create database

Deployment options

to Bridge the Skills Gap

development tools.

With Low-Code

Middleware Logic

developers market.

the skills gap.

Upskilling Java Development Teams

Java WAR file, Angular 7 CI/CD with Bootstrap Jenkins Containers

Backend Security Spring Security, SSO (SAML Spring & CAS) Framework Custom Java (MVC, Security, Building Security Logging, REST) Provider Modern **Database Applications Business Logic** libernate ORM Generate Java **REST APIs for** Create or Reuse **DB CRUD** existing Java Code Microservices Generate Java **Based REST APIs** Revival Standing still will not be an Option "The only skill relevant in the 21st century will be learning new skills"

Angular, React.js and Vue.js are the most loved and wanted web

• Modern Back-End Frameworks - Enable your development team to create and maintain server-side code and provide seamless user

Java development teams need to upskill and evolve from using legacy UI technologies and frameworks, web applications and manual release cycles.

In 2019, here are some relevant skills, languages and technologies that

New Programming Languages – Transform your development team through upskilling and with access to a modern technology stack.

65% of developers use Express, a server-rendered JavaScript framework

use it again.² **RESTful APIs -** Let development teams learn to write REST APIs and implement secure and scalable RESTful Web Service in Java using Spring.

40% of developers use Jest and Mocha respectively and intend to

Full Stack Developers AreNo Longer Unicorns

WaveMaker -

Low-Code Approach

existing java code, or create new Java code in IDE such

Auto-create ORM layer using ORM tools such as Hibernate

Application artifact, a WAR

file, can be deployed to any

Supports container as well

as VM-based deployments for OnPrem and Public Cloud environments.

release cycles

Java application server.

and create logical data models that can be used within application UI.

as Eclipse.

Developers with problem solving attributes are more valuable.

• JavaScript Front-End Frameworks - Empower your team to build user interfaces that are customer-centric. frameworks and are most likely to be used again.1

In 2019, developers are most interested to learn Go (37%), Kotlin (27%), and Python (26%). Rust (84%) is most loved programming language.1

Popular Unit Testing Frameworks - Allow your development teams to ensure accuracy of codebase and writing tests in a feature-rich API to

One of the highly desired Java skills is to know both Java and REST.

Soft Skills - There is a growing demand for developers with analytical

thinking and innovation skills because they fill the gaps found in the lack of complete knowledge of a given technology or programming language.

"Developers need to increase the breadth and depth of their development knowledge."

Upskilling to transform your Java teams to become full stack developers is one of the ways to meet the demands of the growing market and reduce

How rapid application development platforms can make full stack app

Full stack developers are involved in end-to-end development of an application. Referred to as unicorns they are difficult to find in the

To create responsive and Requires highly skilled front-Simple drag and drop outrich UI/UX of-box Angular-based end technologist (HTML5, Bootstrap, Angular, responsive UI with minimal UI Design). coding. To create business logic Requires skilled java Auto-create microservices and APIs developers and API with database logic, reuse

Create database logic using

ORM tools, and map them

Create deployment scripts

to deploy apps to Java application server and

create CI/CD hooks for

By 2024, low-code application development will be responsible

At different stages in the application development lifecycle, traditional teams require software development professionals with specific skill sets.

Helps to build smaller, agile teams - An application development

project which normally requires around 10 different types of developers can now be done with just 4 developer types using rapid application

for more than 65% of application development activity.³

continuous delivery.

How Rapid Application Development Platforms Help

to application logic.

developers.

Traditional Approach

Encourages upskilling - Rapid application development platforms provides exposure to various types of technologies, frameworks, tools and languages, allowing developers to learn and implement full stack development. **Empowers developers to deliver more -** With full stack development, tedious and time-consuming tasks are handled by the platform, giving the bandwidth for developers to focus on innovation and analytical thinking. A glimpse of how low-code enable developers upskill to become full stack developers: Easily Transform **UI** Developer Full Stack Lowcode Developer Developer Legacy UI Leapfrog to Modern UI Framework Technologies Simplify Modern Responsive Web & Native Mobile App Web Apps Development using Low Code

eate deployment Run functional & Verify, scale and profiles & integration tests environments

Devops

agile app delivery for development teams.

Full Stack

Create Varialbes 8 bind UI with

Services / APIs

Customize Java

business logic

Technology is reshaping the ways businesses

will work in future. Modernization of legacy systems

is going to be the prime enabler in digital transformation and embracing modern technology is inevitable. As the demand for IT professionals and developers continues to increase, the skills gap continues to widen. Given the right

Developer

Assemble Page UI

from widgets, templates etc.

Import backend

database and java services &

generate APIs

UI First approach

approach

tools such as rapid application development platforms, the developer workforce can increase the depth and breadth of their knowledge and address the development demands of the modern enterprise.

Manual & Embrace DevOps & CI / CD Using Containers and Kubernetes Tedious Release Cycles Do More With Less - Full Stack Application Development

Application development with a low-code approach enables full lifecycle

A low-code approach to full stack development

WaveMaker enables full life-cycle Agile App delivery for your development teams, using Low-code approach

Devops

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release app live Backend **Full Stack** Developer Developer API First

Download this Whitepaper to explore how the 'Survival, Revival and Arrival of Java Developers' will depend on how they can upskill to full-stack developers using the right tools such as rapid application development platforms.

Sources: 1. HackerRank Developer Skills Report 2019 2. State of JavaScript 2018

3. Gartner's Low-Code Development Technologies Evaluation Guide