

Qualification Questionnaire / Checklist (Java version)

vFunction: The App Modernization Platform



Interactive Platform for Developers & Architects
Provide immediate feedback to merge top-down requirements with actual data



Enables Intelligent, Metrics Based, Bottom-Up Design
Assess, analyze & design micro/mini-services, find dead-code



Automates & Accelerates Error-Prone Tedious Dev Tasks
Copy sources, removes dead-code, minimize properties & config. Files, auto-refactor high debt classes



Repeatable & Scalable
Factory Model, CI/CD Integrated, Continuous Modernization

20x
ACCELERATION

3x
COST REDUCTION

10x
RISK REDUCTION

TRUSTED BY



Microsoft



Raiffeisen
BANK



TREND
MICRO

nationalgrid

FreddieMac

INTESA



SANPAOLO

enel

correla

The vFunction Platform

The vFunction Platform

Assessment Hub

Pre-Refactor



Assessment

<Static Analysis>

Output: Tech Debt, ROI Report, App Mod Prioritization

Learning

<Dynamic+Static Analysis>

Output: Dependencies & Reference Services Identification

Modernization Hub



Monolith
(Production/Testing)



vFunction Studio UI
(vFunction Server)

Analysis + Design

<Refactoring Studio>

Output: Microservices Design + High Debt Classes + Modernization Roadmap

Code Refactoring



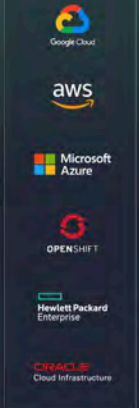
Service Decomposition



Guided Service Extraction

<Semi-Automated Extraction>

Output: Mini/Microservices Strawman Code, Separate project for each service, Restful APIs



Deployment

<Beyond vFn>

Compile, Containerize, Fix security authorization, Test



Application Questionnaire

Please review the following information so we can fit the best vFunction installation to your application:

	Item	Yes/No/Information
1.	Identify the monolithic application you want to modernize and transform into microservices:	Name of the Application:
	Name the key business functions of the application:	Information:
	List the pain points leading you to embark on the modernization of this application (check all that apply):	<input type="checkbox"/> Long test and release cycles <input type="checkbox"/> Unable to meet business requirements <input type="checkbox"/> Hard to ramp up developers <input type="checkbox"/> Poor customer/user experience <input type="checkbox"/> Need new UI <input type="checkbox"/> Scalability challenges <input type="checkbox"/> Want to take advantage of modern cloud services (e.g. serverless) <input type="checkbox"/> Other:
	Have you tried to modernize this application in the past?	No <input type="checkbox"/> Yes <input type="checkbox"/> Provide details:
	Do you have an architectural document for the app?	No <input type="checkbox"/> Yes <input type="checkbox"/> Can it be shared?
	Do you have an estimation of time and resources needed to modernize this application <u>without</u> vFunction?	
2	How many classes does this application have? lines of code (LOC)?	Number of classes (<u>required</u>): Lines of Code (optional):
3.	What JVM and which version are used?	Information:
	Where do you want to get to (JVM version) after the modernization?	Information:
4.	What application server and which version are used today?	Information:
	Where do you want to get to after the modernization (versions)?	Information:

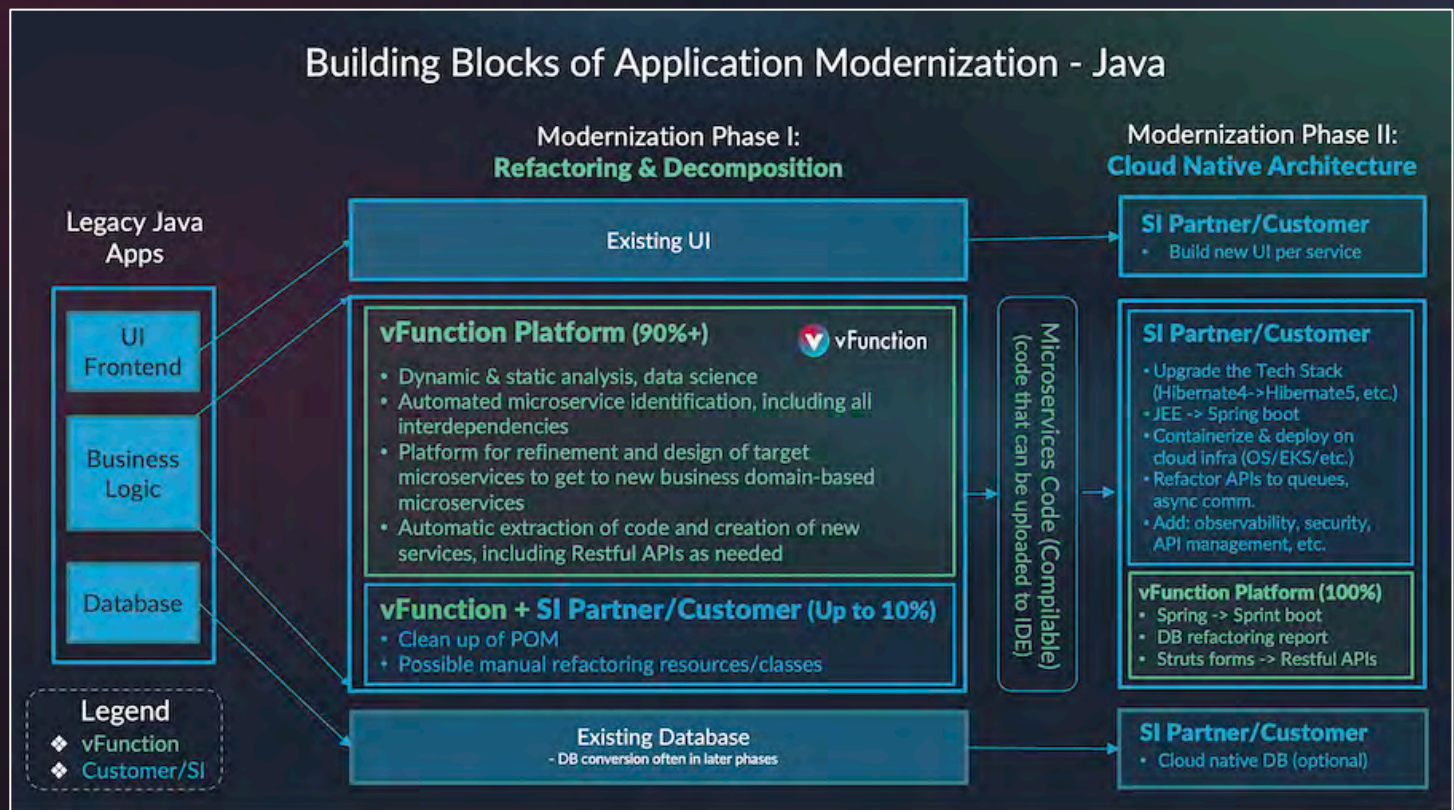
5.	What database is being used?	Information:
	What type of driver is being used for DB connection? (JDBC/Other) Please elaborate if a non-standard connection is used	Information:
	Are you using stored procedures?	<input type="checkbox"/> No <input type="checkbox"/> Somewhat <input type="checkbox"/> A lot
6.	On what operating system is the JVM running on? Do you have superuser/root access on that machine?	Information:
7.	Is the application using Spring? If so, which version and what features are used in the application? How is Spring bootstrapped to the application?	Information:
	Are you looking to migrate to a different Spring version? To which one?	Information:
8.	Is the application using EJBs?	
	Are you looking to use EJBs post refactoring?	
9.	What are the main frameworks being used by the application? Which persistence framework is in use (Hibernate, EclipseLink, MyBatis, etc.)? Which versions?	
	Are you looking to migrate to a different version after the modernization? To which one?	
10.	<u>For non-production installations:</u> Make sure you have the application installed in a pre-production environment (highly recommended 4GB of memory, and 10GB of free disk space) ?	Yes <input type="checkbox"/> No <input type="checkbox"/>
	<u>For non-production installations:</u> Make sure you have automatic testing ready for the application or manual QA resources that can test the application flows (more coverage the better)	Yes <input type="checkbox"/> No <input type="checkbox"/>
11.	What is your build system? What is your dependency management system? (Gradle, Maven, Ant/Ivy, etc.)	Information:
12.	What is your target microservices/functions environment? (Openshift/K8s, Knative, other) which versions?	Information:
13.	How many services are you looking to decompose this monolith into?	Information:
14.	Which environment your application is currently on ? (On-prem/Azure/AWS/GCP)	Information:
15.	Are you planning to move this application to the cloud?	Yes <input type="checkbox"/> No <input type="checkbox"/>
16.	Do you have other applications running on public cloud ?	Yes <input type="checkbox"/> No <input type="checkbox"/> Which cloud provider ? _____



Once we receive the information for the above items we will be able to send you the correct vFunction agent and server artifacts as well as the licensing key.

POV Scope

vFunction POV covers the installation and initial analysis of the application, with vFunction personnel to assist in this process. The culmination of the POV occurs once services are identified and a refactoring plan is generated. Subsequent phases, post-POV, may include the extraction of services, upgrading, re-platforming, UI and data base refactoring (see chart below):



Name:	
Company:	
Partner: (if applicable)	
Role:	
Email:	
Date:	