



### Background

A framework is a platform for developing software applications. It provides a foundation on which software developers can build programs for a specific platform or language.

A development language is meant as a programming language, a set of instructions that produce various kinds of output.

This standard is clear guidance on the frameworks and programming languages to be used within the society **production** landscape, **below is a list of the languages and frameworks you must use while working for Nationwide** to ensure we have the appropriate support in operations and that we don't create unnecessary dependencies on niche technologies operated by single supplier or a reduced number of people within the organisation. **Adherence to these is a contractual requirement. Other languages and frameworks will not be accepted.**



### Allowed languages and frameworks

#### Frameworks

- *Java SpringBoot development framework – All java development*
- *Microsoft .NET 5 – Current and future .NET development*
- *Javascript framework – Front and Back end development*

#### Programming languages

- *Java – Heavy deployments, Back end, business processes, integration services and DB services*
- *C# - Back-end, business processes, integration services and DB services*
- *NodeJS, Next JS – Back-end development, channel applications*
- *ReactJS – Front-end and browser-based web development*
- *Kotlin – Android ecosystem mobile dev*
- *Swift - IOS ecosystem mobile dev*
- *Python - Data analytics, AI, AR, Data science*
- *SQL - Relational database management*
- *GraphQL - API data queries*
- *Terraform – Standard for IaC*



### Standard requirements

- This document must be read by all working under the nationwide contract, specifically:
  - Delivery
  - Developers
  - Designer / Architects
- Adherence to the list of approved languages and frameworks is a contractual requirement. Other languages and frameworks will not be accepted
- Any noncompliance with this guidance will need to be discussed and agreed by Nationwide.



#### How third parties can comply with the policy

- Ensure employees, through communications and training, read this document and comply with its content and guidance, specifically employees with delivery, development and design responsibilities.
- Ensure the languages and frameworks are used as per their recommended use cases and that any use outside of these use cases is discussed and agreed with Nationwide.
- Ensure that any constraints on following these guidelines in a dev, test or production context is discussed and resolved with Nationwide.



#### Responsibilities of Senior Relationship Owners

- Implement appropriate oversight and supervision to satisfy themselves of compliance with these guidelines.
- Confirm that relevant stakeholders in Nationwide are engaged to clarify guidelines and possible agreed non-compliances to their use