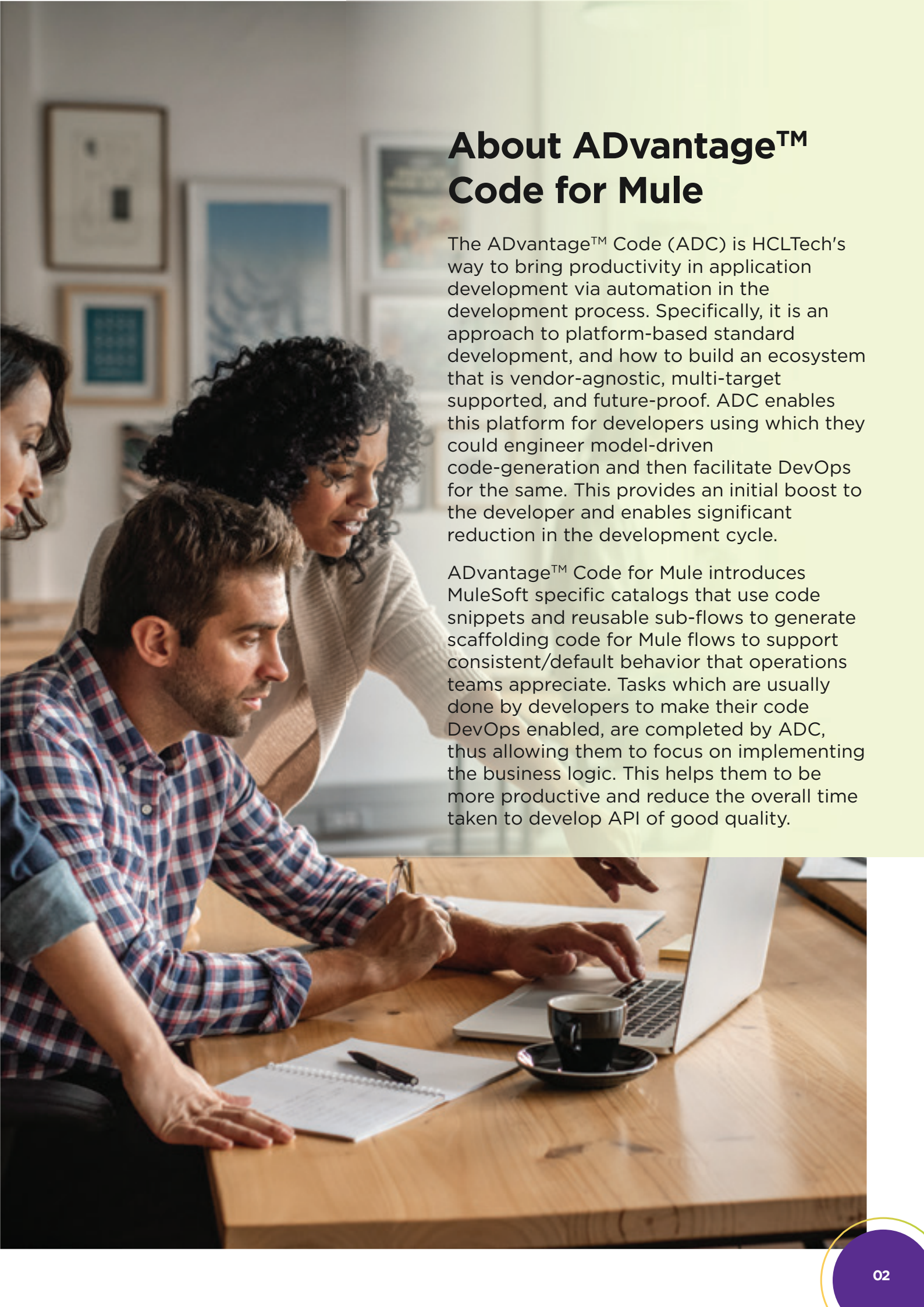


***HCL***

# Simplifying collaboration for faster product release



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## About ADvantage™ Code for Mule

The ADvantage™ Code (ADC) is HCLTech's way to bring productivity in application development via automation in the development process. Specifically, it is an approach to platform-based standard development, and how to build an ecosystem that is vendor-agnostic, multi-target supported, and future-proof. ADC enables this platform for developers using which they could engineer model-driven code-generation and then facilitate DevOps for the same. This provides an initial boost to the developer and enables significant reduction in the development cycle.

ADvantage™ Code for Mule introduces MuleSoft specific catalogs that use code snippets and reusable sub-flows to generate scaffolding code for Mule flows to support consistent/default behavior that operations teams appreciate. Tasks which are usually done by developers to make their code DevOps enabled, are completed by ADC, thus allowing them to focus on implementing the business logic. This helps them to be more productive and reduce the overall time taken to develop API of good quality.



## Below is the comparison of Traditional vs. Futuristic development (ADC Way)

Design new API in design center & publish designed API Specification to Exchange 2.0

Register new API in API Manager

Import API in Studio and generate scaffolding code from RAML in anypoint studio

Add configurable auto-discovery tag in scaffolding code

Add configurable CI/CD configuration in scaffolding code

Configure CI/CD pipeline-job in Jenkins

Deploy to Mule runtime using pipeline-job

Complete implementation, verify & promote API to production

Manage API via API manager

Design new API in design center & publish designed API Specification to Exchange 2.0

Register new API in API Manager

**ADvantage™  
Code**

**Automated**

Complete implementation, verify & promote API to production

Manage API via API manager

# Key Highlights



Increased productivity through automation



Improved consistency and standardization in the development



Codified best practices instead of just documents



Increased adoption of PaaS platforms



**NEW!**  
Generates code for Mule4

## Business Problem

Cost overruns and delayed releases are some of the most common problems in software project management. When combined with the pressure of faster GTM, the resulting product developed is of poor quality. An ideal solution would be to automate some of the mundane everyday tasks so that the developers have more time to innovate and work on business logic while eliminating the need for repetitive tasks.



# Product Features



Model-driven automated code generation for scaffolding components using RAML & OAS spec



Specification-based unit, sanity, system & performance suite generation



Static code analysis plugin with integrated support for code quality gate standards



Automated DevOps (CI/CT pipelines) generation



Auto-discovery enablement, security features configured



Hybrid integration scenarios, including CloudHub, hybrid, cluster, and server group scenarios



End-to-end tracking of DevOps jobs





## Business Benefits

- Shorter development cycle, faster time to market
- Brings consistency and standardization across development teams
- Automates application scaffolding built to enable developers to focus on solving business problems
- Codify the best practices in code scaffolding generated
- Static code analysis based on set principles
- Increase in the quality of systems through automation and security
- Propagates knowledge, experience, and best practices across projects
- Enabled end-to-end tracking of DevOps tasks





# Business Use Cases

## Use Case:

### **Speeding up new application development**

When a new project is initiated in an enterprise, everything has to be done from scratch. This includes setting up common DevOps tooling, code naming, common technical components, and best practices. This takes up a lot of time and is often not done correctly in one go. ADvantage Code helps by automating the setup and by configuring the initial project bootstrapping. This helps save a lot of time and effort for the development team

## Use Case:

### **Ensure consistent and standardized development across sprint teams**

Consistent and standardized development across sprint teams is crucial for projects. Often best practices are written documentation which may or may not get translated into the developed code. Usage of ADvantage Code ensures that these best practices are codified in the scaffolding code itself which is getting generated. The same goes for DevOps automation. As various SMEs are involved in ADvantage Code automation, the outcome of ADC is of high quality and driven by best practices.



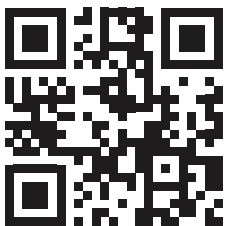
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