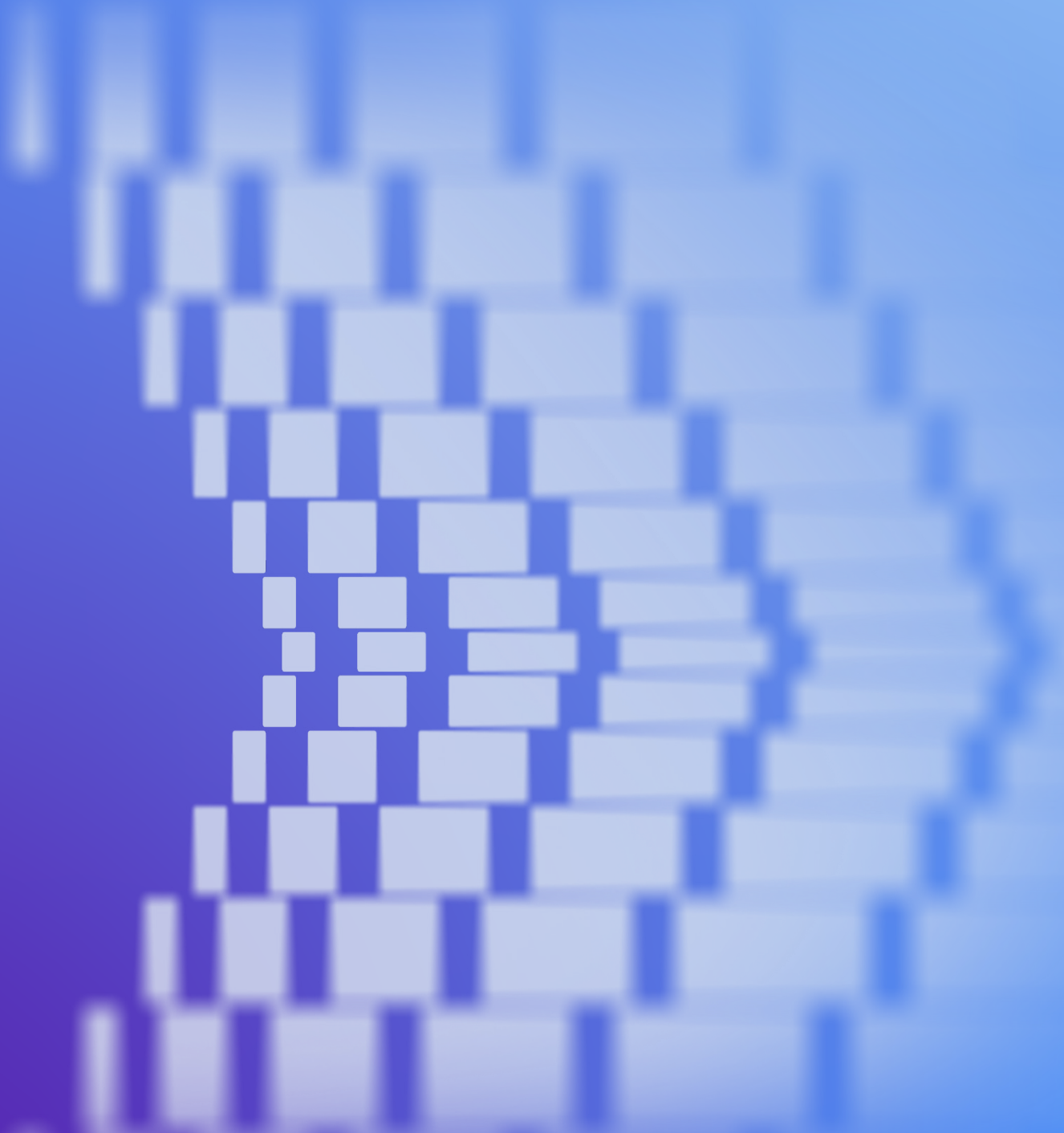


Enhancing app development to deliver business value at scale



Introduction

Application development in the 21st century can be a challenge to enterprises, given that technology is changing rapidly. Enterprises are looking to transform their application landscape and modernize themselves by leveraging new delivery models. However, questions on how to increase business responsiveness, mitigate costs and lower risks continue to be areas of concern.

HCLTech's Modern Applications practice helps enterprises overcome these concerns by taking an end-to-end platform-based approach to app development. With expertise across different areas of application development such as APIs, DevOps, microservices, cloud natives and advanced data services, HCLTech is helping over 50 fortune customers and 500+ consultants to make app development seamless and devoid of bottlenecks.

HCLTech's philosophy and vision for app development

HCLTech's philosophy for developing applications relies on six key principles that help build intuitive and insightful applications driven by productivity and experience improvements. These are:



HCLTech's vision for Modern Application Development is well-supported by accelerators developed in-house, which help to enhance productivity during the development process and deliver business value at scale. Given below are details of two marquee accelerators developed by HCLTech's Modern Applications Practice:

1. Application 360

Application 360 brings engineering processes and program management under an integrated dashboard. It provides full traceability from portfolio-level EPICs to development-level tasks, giving all stakeholders essential contextual information. Additionally, there is a 360-degree view available to various stakeholders, which helps them foresee risks that need to be mitigated and track them to closure.

The philosophy behind Application 360 is to reduce the development efforts, improve productivity and quality aspects of both people and processes. Given below are the key features of Application 360:

Key Features

Integrated view:

All critical elements of the project in one place

Persona-based reporting:

Greater visibility into Application Lifecycle Management (ALM) for different project stakeholders

Project Insights:

Alerting for Key Health Indicators, chatbot assistance for tips, Q&A (NLP)

Improved Customization:

All the widgets are customizable, providing a single snapshot of key metrics

AI for Predictability:

AI and ML for predictability in delivery, cycle time and potential risks

Benefits

Application 360 helps customers to improve overall project productivity while saving costs by providing a unified view of all key metrics in one place, which enables early risk detection and dependable ALM execution as under:

- Consistent and unified project view
- Early detection of risk
- Improved productivity
- Cost saving
- Resolute ALM execution

Success Stories

- A global luxury vehicle manufacturer sought the help of HCLTech to develop a centralized Application 360 dashboard which provides an enterprise-level unified view for agile reporting. This enabled early risk identification, superior traceability and helped generate automated reports.
- For a leading American railway and logistics provider, HCLTech developed a persona-based dashboard for Scrum Master, product owner and train engineers, which helped to consolidate team-level views and ensure end-to-end traceability across all environments.

2. ADvantage Code

ADvantage Code (ADC) is HCLTech's approach to bring improved productivity to cloud-native application development via engineering automation. By leveraging the ADC framework, developers can conduct model-driven code-generation, enable DevOps and deployment onto cloud. This helps developers bootstrap their project code and leads to a significant reduction in the development cycle.

The philosophy behind ADvantage Code is to enhance developer productivity through automation and infra-as-a-code. It auto-generates code and the Continuous Integration/Continuous Delivery (CI/CD) pipeline. Scaffolding automation enables developers to focus on the business function implementations by:

Key Features

Model Driven Development:

For faster bootstrapping of development projects, including DevOps automation.

Codified Best Practices:

Embed development best practices into scaffolding generated to codify the best practices, instead of documentation.

Developer Empowerment:

Automate scaffolding to enable developers to focus on business function implementations.

Automation First:

Identify the opportunity for automation and enable them via ADC.

DevSecOps /CI Automation:

Along with code, ADC helps to set up the corresponding DevOps pipelines with inbuilt security practices.

Build at Scale:

Build cloud and internet scale applications in rapid mode using the ADC platform.

Benefits

ADvantage Code accepts the specification files developed at the end of the design cycle, generates the cloud-native application code, creates a DevOps pipeline and enables deployment into the platform of choice. This allows the developer to have 20 to 30% of the code ready even before opening the IDE and standardized DevOps pipeline. This, in turn:

- Brings consistency and standardization across development teams.
- Automates application scaffolding creation to help developers focus on solving business problems.
- Helps customers to onboard the DevOps journey quickly.
- Enables full stack development.
- Build non-functional requirements (NFR) that must be addressed automatically in scaffolding from the start of the app development.

Success Stories

- For a leading global logistics provider based out of Australia, providing services across 40+ countries, HCLTech deployed ADC to generate the microservices code base and jumpstart delivery. This, in turn, created a foundational engineering capability for the company.
- For a British public-service television broadcaster, HCLTech used ADC to accelerate microservices development by generating a base structure of spring boot-based microservices taking the entity model as input.

3. ADvantage Assess

It is an online solution that allows users to assess as-is state maturity for applications and provides automated recommendations and implementation plans.

Assessments can be conducted for domains of Agile, DevSecOps, SRE, API & Microservices.

Key Features

The philosophy behind ADvantage Assess is to reduce time required to perform as-is maturity assessment and provide draft recommendation plan online.

- **Rapid assessments** - One or more team members can answer few questions and get the assessment report along with recommendations report in a few hours
- **Repeatable assessments** - Perform multiple assessments at any time and use the compare feature to analyze the improvements that have been achieved over a period of time
- **Assessments for any domain** - Assessment can be performed for any domain - DevSecOps, SRE, Agile, API & Microservices
- **Automated recommendations** - Provides automated recommendations and implementation plan. Provides resource loading template with the estimated efforts for implementation
- **Role based access** - User and admin roles defined to perform various activities and portal configuration
- **Integrated reports** - Easy to view reports on the accounts, projects, users, assessment details, assessment reports etc.
- **Integrated with AD** - Solution can be installed at the customer premise and integrated with enterprise AD
- **Notifications** - Notifications for incomplete assessments, completed assessments and post assessment roadmap

Benefits

- Assessment hours reduced from weeks / days to hours
- Multiple team members can collaborate on the same assessment
- Compare assessments to assess improvement in maturity
- Teams perform and compare maturity against enterprise standards
- Online portal enabling assessments to be performed from any remote location
- Integrated with enterprise AD
- Provides maturity model data that shows the approach maturity over a period of time

Success Stories

Customer 1: Customer is a leading global bank in Europe and is continuously enhancing operations in central and Eastern Europe, Latin America, Asia and key emerging markets. HCLTech used ADvantage Assess portal for the account delivery teams to perform self-assessments and generate as-is stage DevSecOps maturity assessment reports for the applications. Time taken to determine the as-is DevSecOps maturity of the applications **reduced from few weeks to few hours**

Customer 2: Customer is a data research organization catering to data insights and actionable recommendations for their clients across the globe covering over 90 market types. HCLTech used ADvantage Assess portal for the account delivery teams to perform self-assessments and generate as-is stage DevSecOps maturity assessment reports for the applications. HCLTech DevSecOps SME conducted "Delivery Acceleration" workshops to train large pool of customer resources on DevSecOps process and tools



HCLTech | Supercharging Progress™

HCLTech is a global technology company, home to 219,000+ people across 54 countries, delivering industry-leading capabilities centered around digital, engineering and cloud, powered by a broad portfolio of technology services and products. We work with clients across all major verticals, providing industry solutions for Financial Services, Manufacturing, Life Sciences and Healthcare, Technology and Services, Telecom and Media, Retail and CPG, and Public Services. Consolidated revenues as of 12 months ending September 2022 totaled \$12.1 billion. To learn how we can supercharge progress for you, visit hcltech.com.

hcltech.com

