

Jumia uses WireMock Cloud to parallelize development and reduce feature development time by more than three weeks

Find out how Jumia implements WireMock in their engineering teams' testing and development workflow for shorter release cycles.



Client



Joao Falcao
Chief Technology Officer
Jumia

Jumia is a technology company that delivers advertisement, data, marketplace, payment and logistic services across Africa.

Region

Africa

Industry

eCommerce, web services

Goal

Increase release velocity by parallelizing work between mobile and backend development teams

Challenge

Jumia experienced development bottlenecks when mobile and back-end teams had to work in sequence/isolation around APIs that were still in development.

Solution

Jumia chose WireMock Cloud as a reliable API testing and development tool to streamline workflows across mobile development, backend development, and quality assurance teams.

Results

Jumia reduces the development time of new features by more than three weeks as WireMock helps parallelize the mobile and back-end development teams' workflows.

BACKGROUND

Jumia is a technology company that delivers digital services across Africa. Jumia has a wide range of business units, some of their main products including advertisement, data, marketplace, payments and logistic services.

Catering to the high penetration of mobile devices in the African population, Jumia employs a mobile-first approach, structuring their organization such that mobile engineers and back-end engineers work closely together for better communication and quicker product releases.

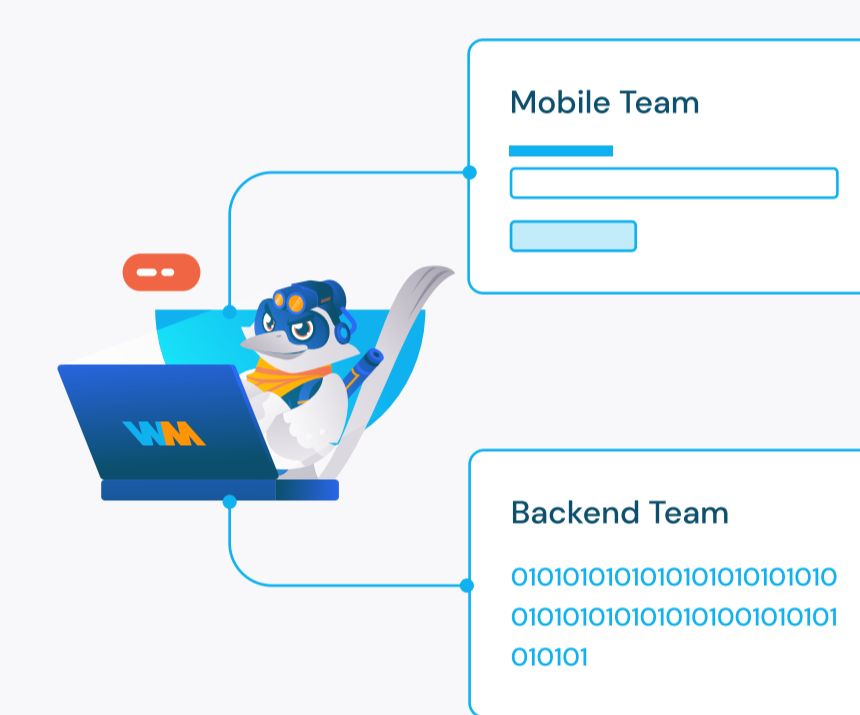
CHALLENGE

Develop new features that depend on work-in-progress APIs.

Even though mobile and backend engineering teams were working closely, their workflows were separate and this led to misalignments and delays in shipping new features. The mobile team had to instruct the backend engineers on the APIs, fields and responses they needed, and the backend teams would enter a sprint to develop the APIs. Upon completion, if the mobile team would require further changes to the APIs, they had to make another request to the backend team, creating a development bottleneck and long feedback cycles.

Jumia were looking for a solution to help them:

- Parallelize work between mobile and backend engineering teams
- Ensure the availability of staging and testing environments with minimum effort
- Manage code versions across environments
- Adjust the security and authentication controls of staging environments



“WireMock is awesome because we can shorten our feature release lifecycle by three weeks, and we can have the mobile development and backend development teams working in parallel.”

Joao Falcao
Chief Technology Officer, Jumia

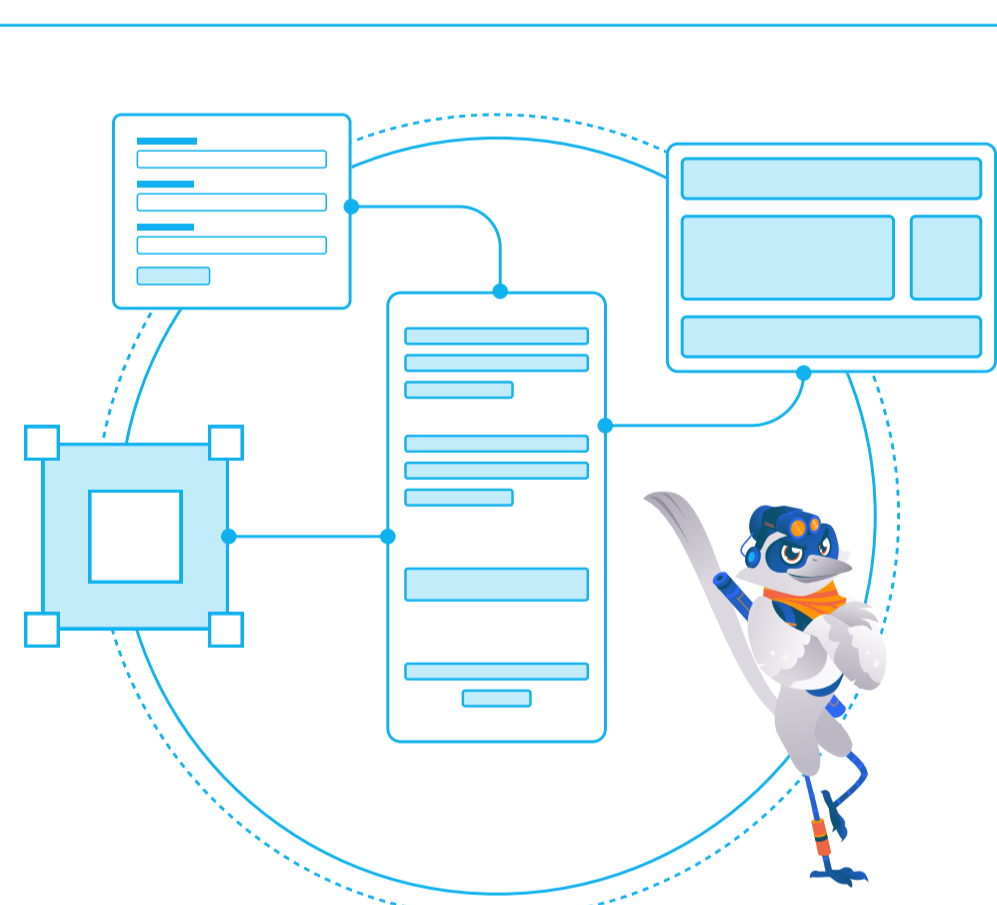
SOLUTION

Need

Jumia deployed WireMock Cloud as a mock API server, offering developers an always-on API service instead of relying on their internal staging and integration environments. WireMock also helps Jumia manage changes to software code to ensure that teams can validate new functionalities on the correct code deployments.

Jumia uses WireMock as part of their ideation and development workflows, enabling engineers to define the API calls and payloads without writing any code. With the mock API calls, the mobile engineering teams can use the responses in their implementations as soon as defined, while the backend developers have an exact requirement list to work toward.

To improve the quality assurance workflow, Jumia uses WireMock Cloud to lower the authentication and security barriers as these requests are not creating any sort of data into a database, making it easier for manual quality assurance specialists to hit the APIs.



“After defining the API responses we can either directly start development on mobile and backend lines in parallel, or continue to iterate directly into WireMock Cloud without spending one single line of code within PHP or Java. This is one of the aspects that allowed us to move faster.”

Joao Falcao
Chief Technology Officer, Jumia

RESULTS

Shorter feature release lifecycle and quicker time-to-market.

WireMock helps Jumia reduce testing and development timelines by more than three weeks for each feature release by:

- Enabling the mobile and backend development teams to work in parallel.
- Helping the development teams define APIs without having to write any code.
- Providing an always-on non-production environment for testing and development.
- Manage security and authentication controls for quality assurance specialists.



“We reduce at least three weeks in terms of realization and don’t spend any more effort on maintaining staging and integration environments.”

Joao Falcao
Chief Technology Officer, Jumia