

Quality

1. Performance
(High)

Response Time

Under normal conditions, when a user requests a product list, the Webshop displays results within 1 second in 95% of all cases, providing a smooth and efficient shopping experience, leveraging Azure's low-latency cloud infrastructure.

During peak traffic, such as a major sale, the Webshop handles up to 1,000 concurrent users without performance degradation, maintaining 99.99% availability to support high demand, enabled by Azure's auto-scaling capabilities.

Latency

When a user submits a payment, the Webshop confirms the transaction within 2 seconds in 99% of cases, ensuring immediate feedback for users, supported by Stripe's rapid payment processing.

2. Security
(High)

Secure Payment

When a user submits payment details, the Webshop encrypts the data and processes it securely via Stripe, ensuring no breaches occur and protecting user information, with Azure's cloud security enhancing data protection.

3. Usability
(Medium)

Intuitive navigation

When a user searches for a product, the Webshop provides relevant results in no more than 2 clicks, with 90% of users completing searches successfully, enhancing user satisfaction.

Responsive design

When accessed on mobile devices, the Webshop adapts its layout to ensure a seamless and user-friendly experience.

4. Maintainability
(Medium)

Easy updates

When new products or features are added to the Webshop, the system allows integration within 2 weeks, requiring less than 16 hours of developer effort for smooth updates, supported by Azure's flexible deployment tools.

When scaling new features during peak usage, the Webshop supports rapid deployment updates within 1 day, ensuring minimal disruption and maintaining system integrity, utilizing Azure's auto-scaling infrastructure.

5. Reliability
(Low)

Minimal Downtime

Under normal conditions, when the system experiences a server failure, the Webshop recovers within 5 minutes, achieving 99.99% uptime annually to ensure continuous operation, supported by Azure's high-availability features.

During a critical outage under heavy load, such as with 1,000 concurrent users, the Webshop resumes normal operations within 10 minutes, guaranteeing reliable service even under stress, backed by Azure's geo-redundant infrastructure.