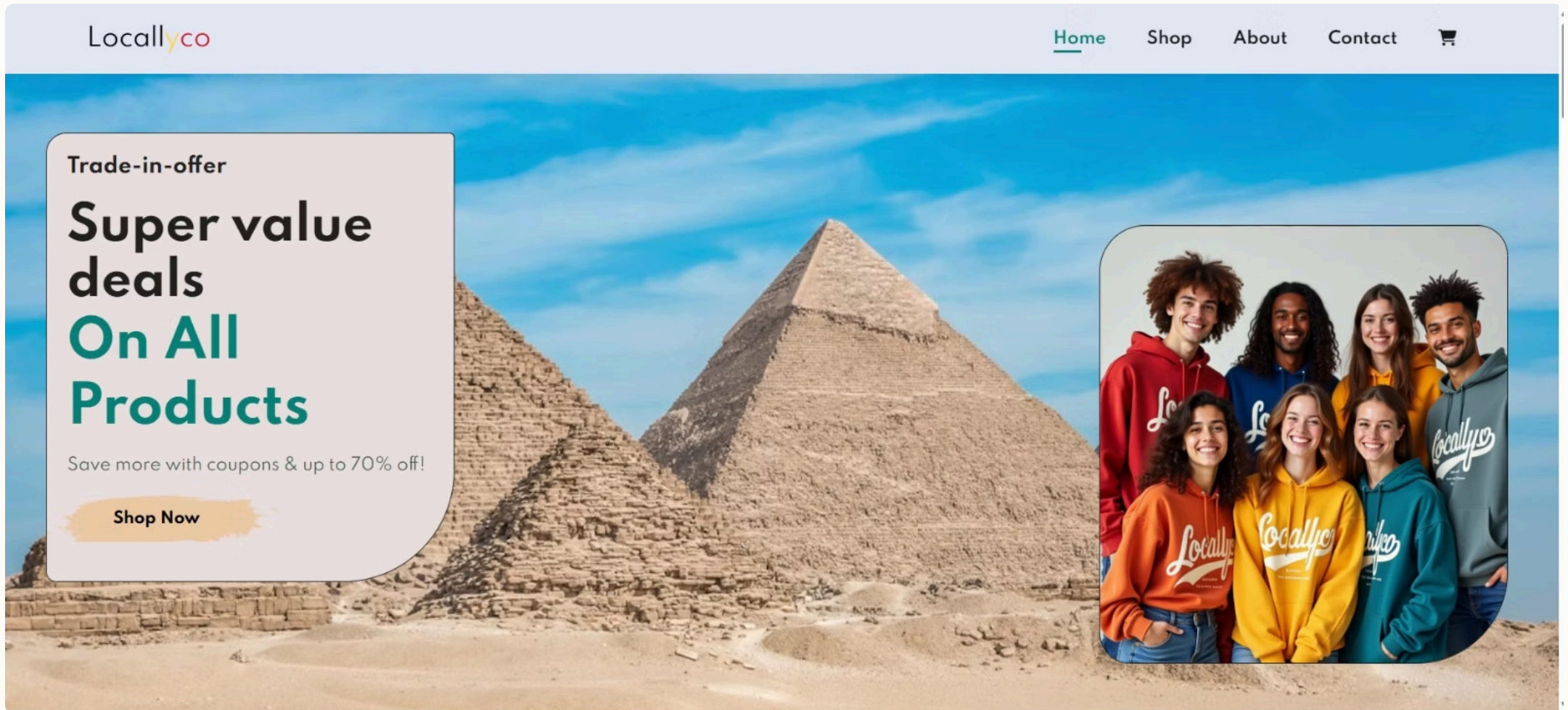


# Locallyco

## E-Commerce for local brands



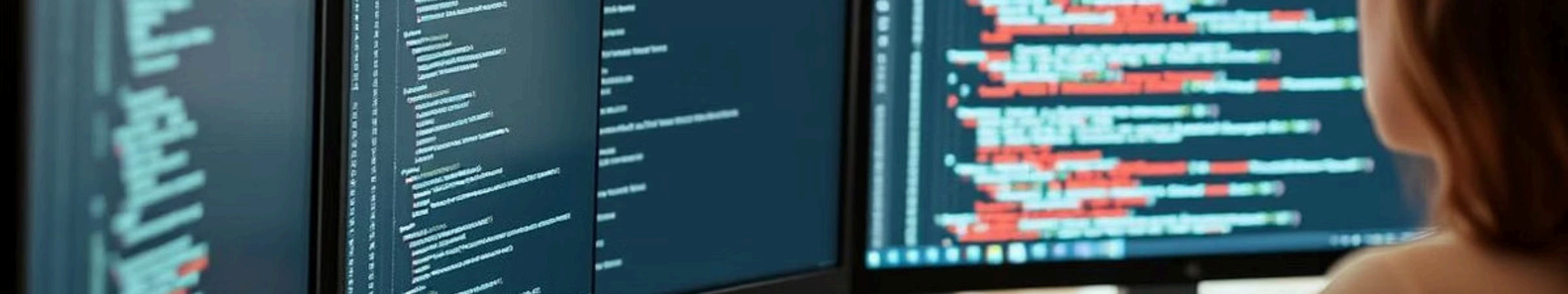
# Project Scope & Architecture

## Type

Web-based e-commerce system

## Core Components

- User interface with Razor Views
- Business logic via ASP.NET Core MVC
- Data access with Entity Framework Core
- Persisted in SQL Server database



# ASP.NET Core MVC



## Flexible MVC Pattern

Separation of concerns for maintainability



## Built-in Dependency Injection

Enhances testability and modularity



## Middleware Pipeline

Customizable request handling



# Entity Framework Core

## Code-First Approach

Model classes define DB schema

## LINQ Queries

Strongly typed, compile-time checked

## Change Tracking

Efficient updates and concurrency control

## SQL Server Integration

Robust, scalable relational database



# Razor Views



## Dynamic Page Generation

Combines HTML with C#



## Strongly Typed Models

Compile-time error checking



## Layout & Partial Views

Reuse UI components efficiently



**LocalLico**

# SQL Server via EF Core



## Relational Data Storage

Structured and normalized schema



## Security

Role-based access control and encryption



## Performance

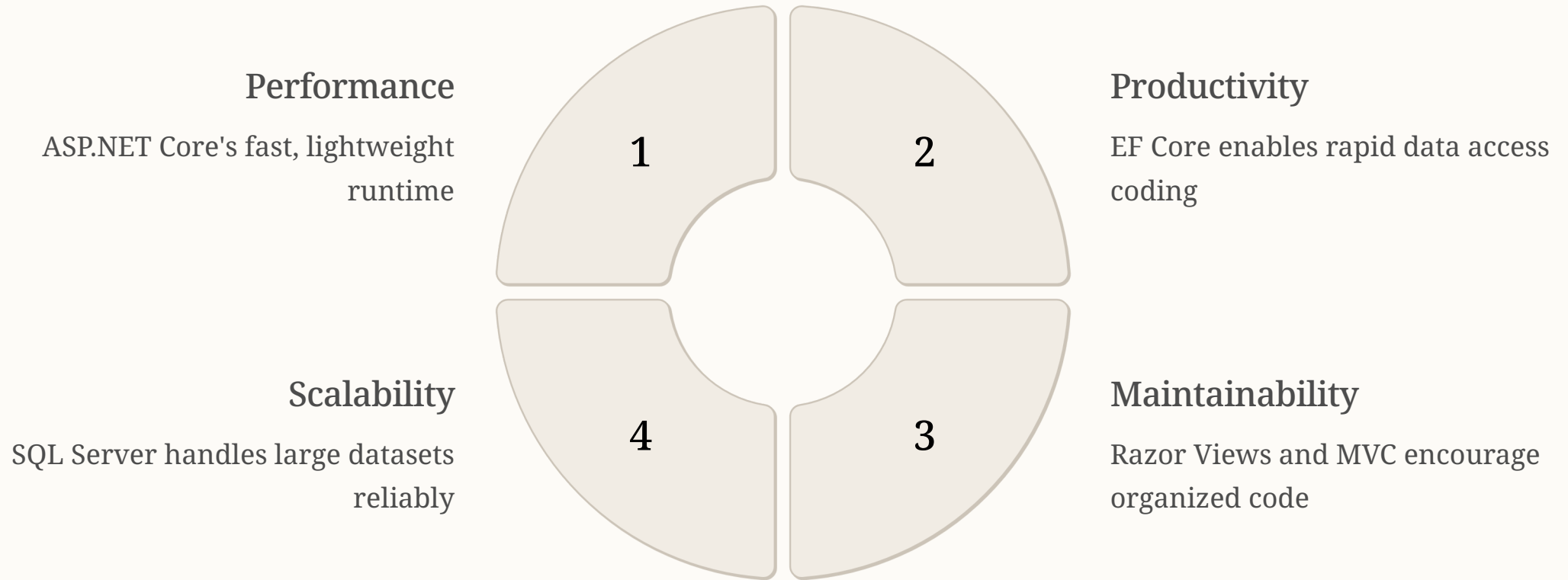
Optimized indexing and query plans



## Maintenance

Backup, recovery, and monitoring tools

# Benefits of Technology Choices



# Next Steps & Summary

## Final Design Review

Confirm architectural decisions and tech stack

## Development Phase

Begin coding with iterative sprints

## Testing & Deployment

Implement unit, integration tests and launch

