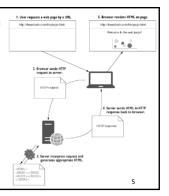


What is ASP.NET Core?

- ASP.NET Core is a **cross-platform**, **open-source** application framework that you can use to build dynamic **web applications**.
- Selling points of ASP.NET Core:
 - ■modern, high-performance, open-source
 - ■familiar design patterns and paradigms
 - **■**C#
 - ■cross-platform

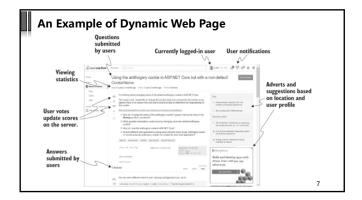
Primer on Web Application

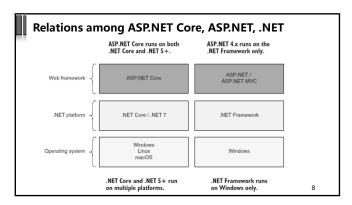
- ■Web applications are apps running at web servers that you van view in a web browser.
- ■The figure shows how an HTTP request works.

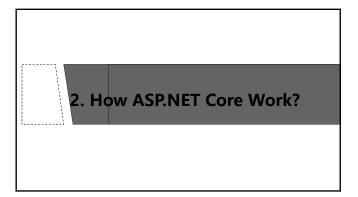


Dynamic Web Page

- ■it's perfectly possible to build a **static web application** without the use of a web framework, but its capabilities will be limited.
- ■The key to any modern web application is the ability to generate dynamic web pages.
- ■Dynamic web page may display different data depending on the current user, or it could display content submitted by users.
- ■Without a dynamic **framework**, it wouldn't be possible to log in to websites or to display any sort of personalized data on a page.



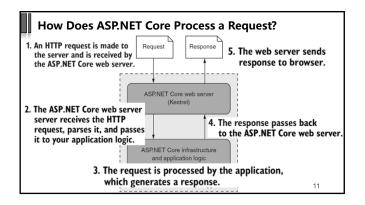




What are ASP.NET Core Applications?

- ■ASP.NET Core applications are **console applications** that self-host a web server and handle requests directly.
- Kestrel is a fast, cross-platform HTTP server on which ASP.NET Core can run.
 - ■It receives raw requests;
 - ■It constructs an internal representation of the data, an HttpContext object, which the rest of the application can use.

10



HttpContext

- ■The **HttpContext** constructed by the web server is used by the application as a sort of storage box for a single request.
- ■Your application can use the details stored in HttpContext to generate an appropriate response to the request:
 - ■generate some HTML;
 - ■return an "access denied" message;
 - send an email

12

