Static Web Application

Agenda
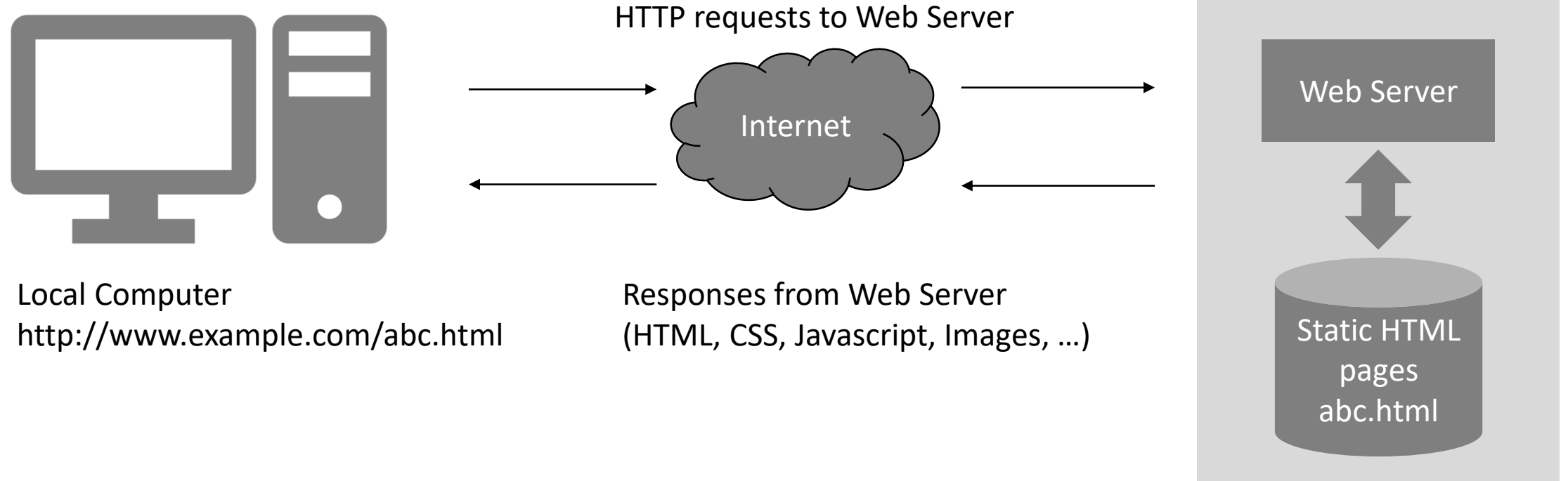
Web application

HTML in a nutshell

  elements and attributes

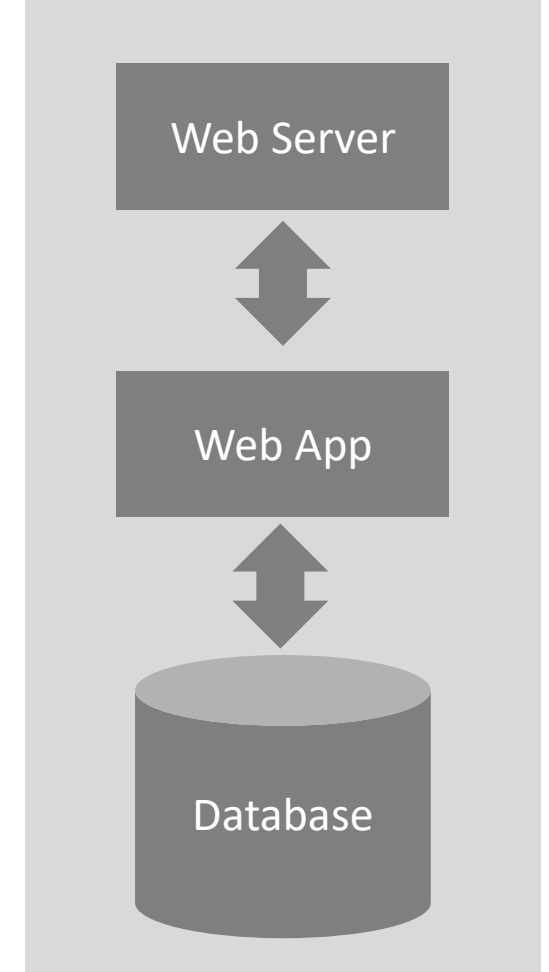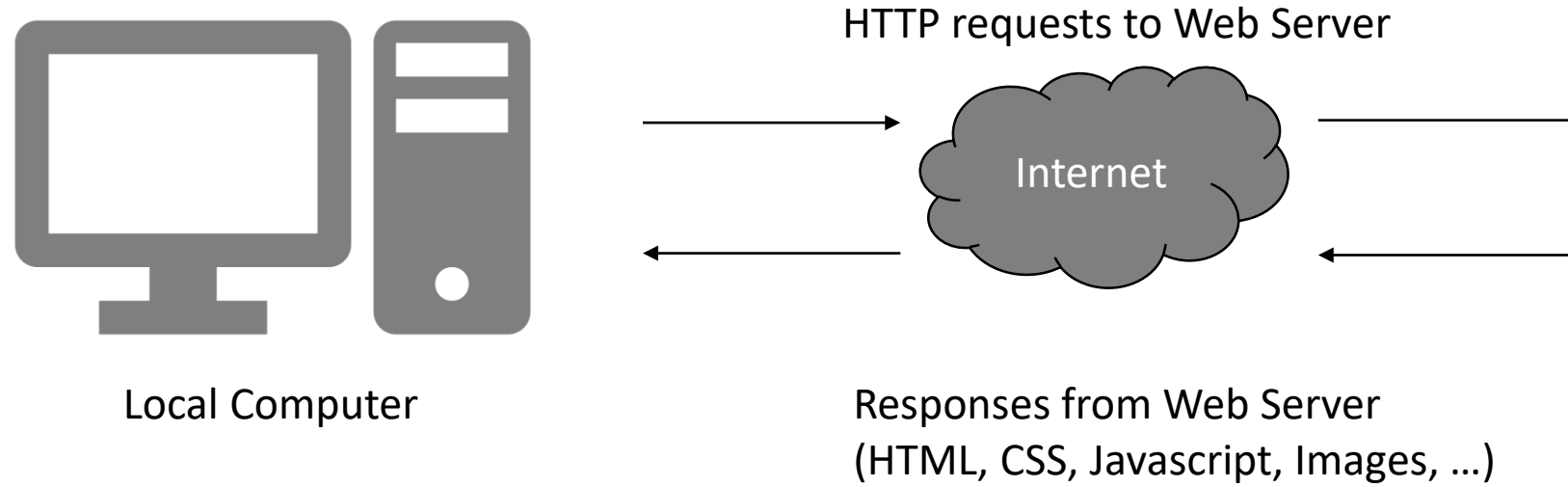 styling the Web

Markdown

Bootstrap

Static Web Application

HTTP requests to Web Server

Internet

Web Server

Local Computer
http://www.example.com/abc.html

Responses from Web Server
(HTML, CSS, Javascript, Images, …)

Static HTML
pages
abc.html

Dynamic Web Application

HTTP requests to Web Server

Internet

Local Computer

Responses from Web Server
(HTML, CSS, Javascript, Images, …)

Web Server

Web App

Database
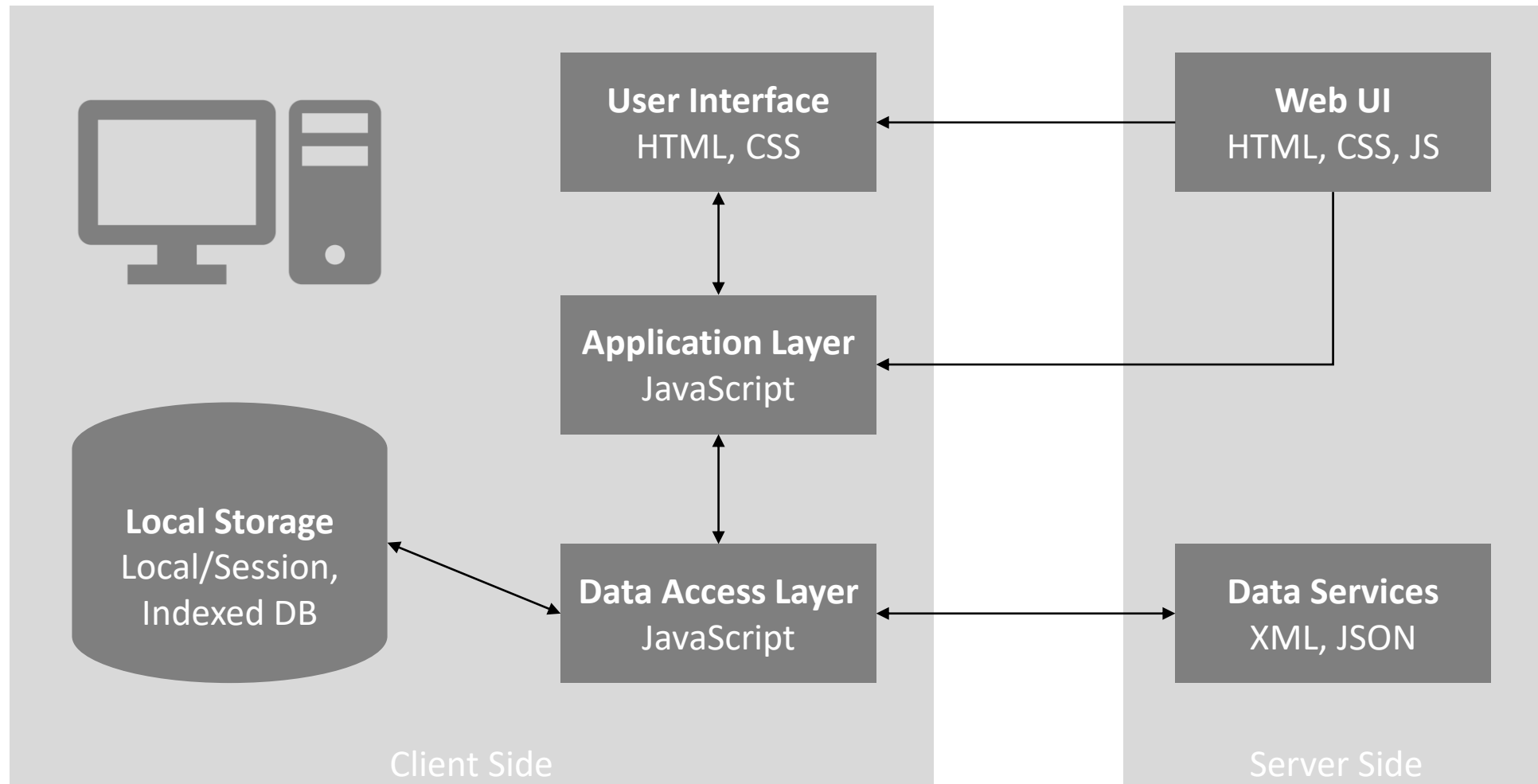
Single Page Application

HTML document structure

```
<!DOCTYPE html>
<html>

        <head>
        …
        </head>

        <body>
        …
        </body>

</html>
```

Elements and attributes

<tagname> … **</tagname>**

```
opening and closing tag
```

<tagname attrname="value" attrname="value"> … **</tagname>**

```
name/value pair
additional info about element
in opening tag
```

Content styling

Inline

    `<h1 style="color:blue;margin-left:30px;">text</h1>`

Internal

    `<style> … </style>`

External (CSS document)

    `<link rel="stylesheet" type="text/css" href="mystyle.css">`

Web technologies tutorials and references

Mozilla Developer Network

Wiki: HTML, CSS, JavaScript guides and tutorials

https://developer.mozilla.org/en-US/docs/Web/HTML

W3 Schools

http://www.w3schools.com

Markdown

Lightweight markup language

Plain text formatting

HTML conversion

Markdown tutorial

Tools

Markdown online editor: http://dillinger.io/

HTML formatter: http://www.freeformatter.com/html-formatter.html

Developing websites

Frameworks

    responsive

    mobile-first

Bootstrap

To do

Create static web page

1. Based on the cue.pdf file, create cue.html with the same content as in the pdf document. The cue.txt file contains the excerpts of text which you can use when creating html document.

2. Upload the cue.html to the web server (public_html folder)

3. Open your web browser and display cue.html from the server.

Go to Markdown tutorial

Familiarise yourself with the Markdown tutorial

http://www.markdowntutorial.com/

Create Markdown document

1. Based on the cue.pdf file, create markdown document cue.md with the same content as in the pdf document.

2. To create Markdown document, use http://dillinger.io/ or https://stackedit.io/ service.

3. Export Markdown document to cue-md.html. Save it in the MyWeb folder.

4. Use any online formatter to pretty format the HTML document you have created.

5. Upload the cue-md.html to the university server (public_html folder).

6. Open your web browser and display cue-md.html from the server.

Use Bootstrap

1. Copy cue.html document to cue-bs.html

2. Modify cue-bs.html . Use Bootstrap framework (http://getbootstrap.com). You can use the tutorial available on the http://www.w3schools.com/bootstrap/default.asp.

3. To display article title, use Jumbotron.

4. Use other Bootstrap features (tables, images, carousel, colours) to improve the html document.

5. Upload the cue-bs.html to the university server (public_html folder).

6. Open your web browser and display cue-bs.html from the server.