

Static Web Application

Agenda

Web application

HTML in a nutshell

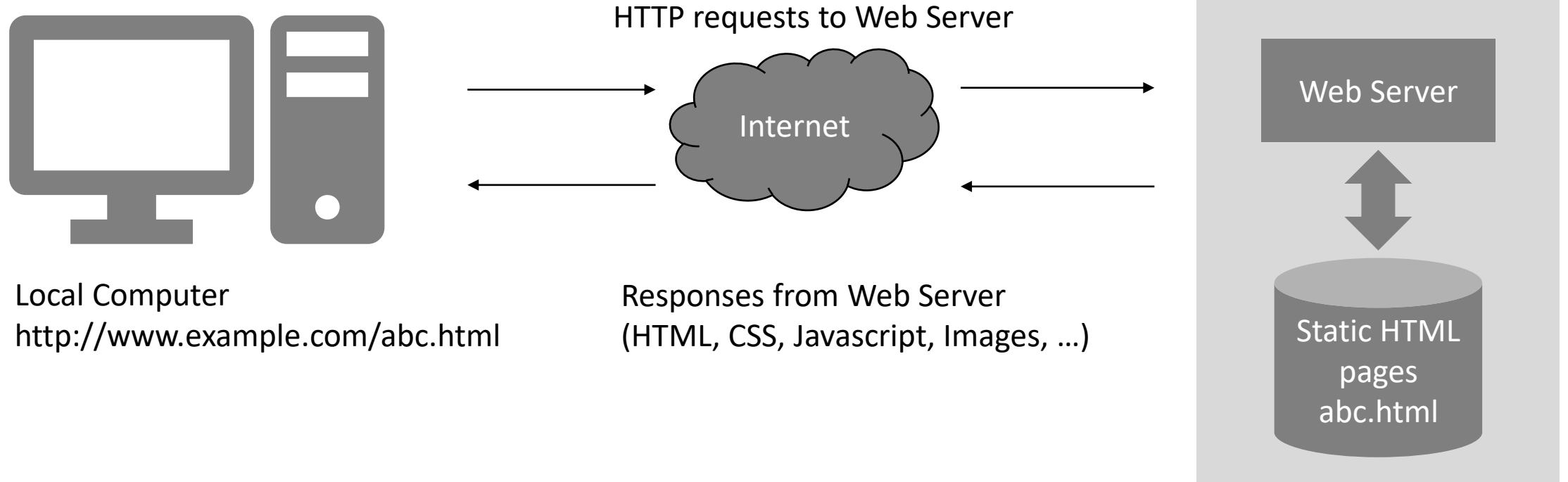
elements and attributes

styling the Web

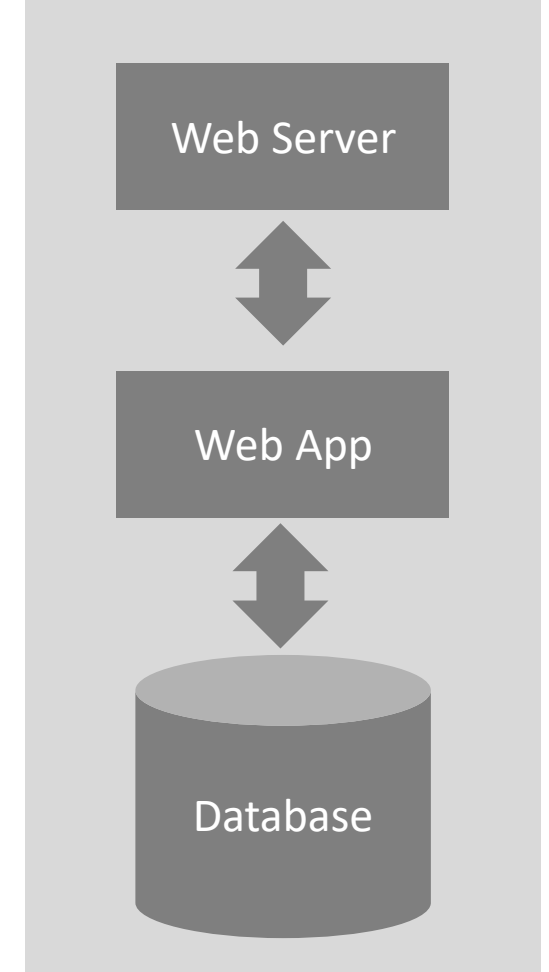
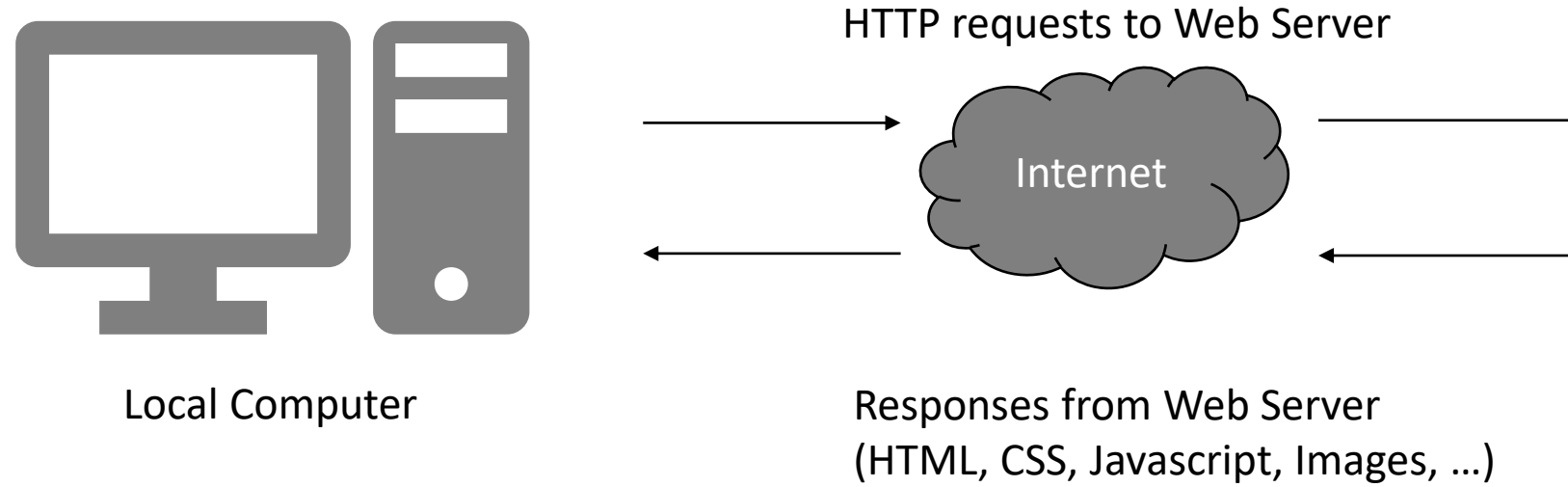
Markdown

Bootstrap

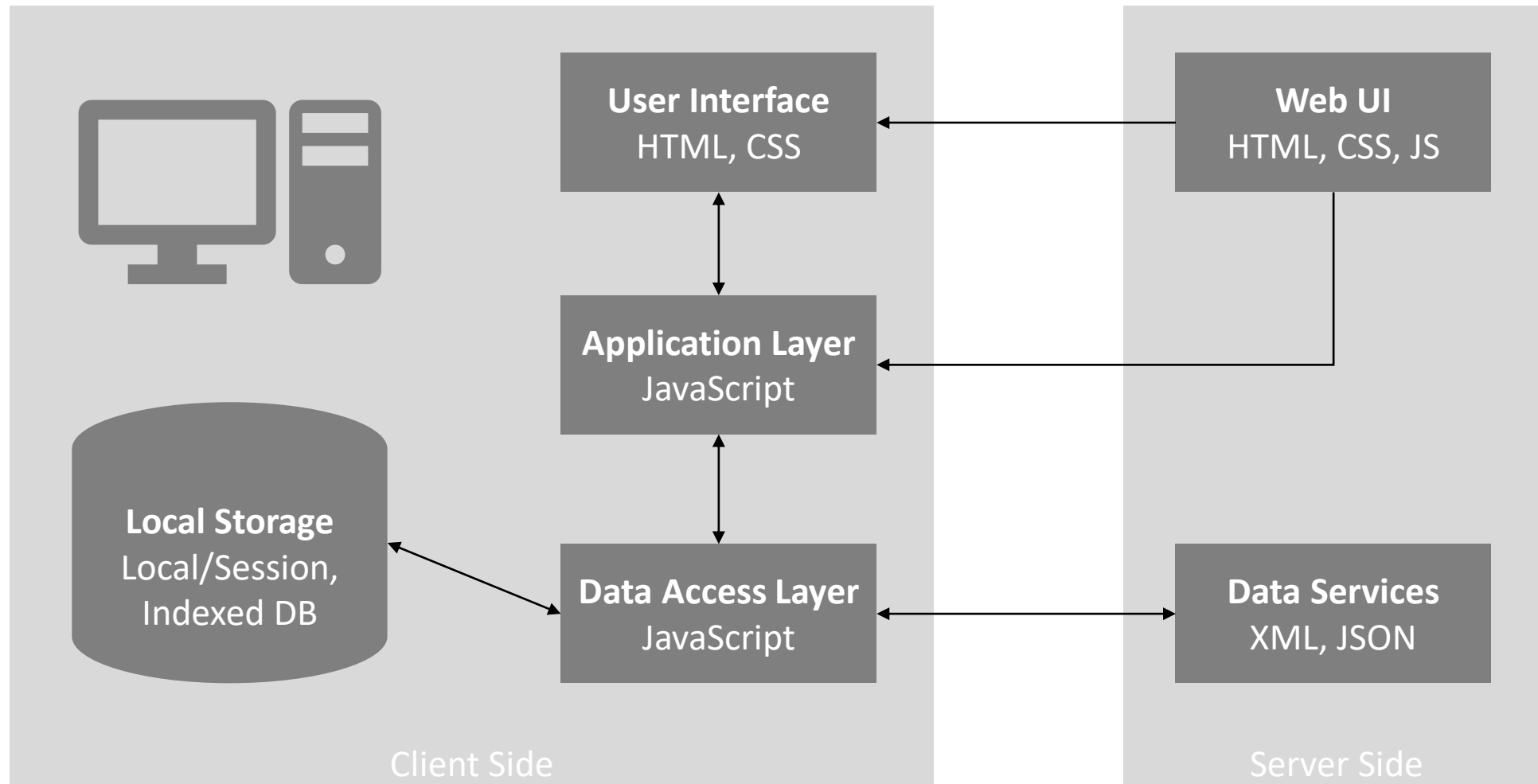
Static Web Application



Dynamic Web Application



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.