a sa kiathActi **Technical University of Sofia** ends Faculty of Computer Systems and Control but Web Programming (Bundle's SavedInsta SetContentvi yout.a Lecture 2 – HTML Tags Sen. Assist. Prof. PhD A. Tasheva

public void onClick(View view

HTML tags again

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Layouta

- html
- head
- body
- title
- p ol
- h1, h2, ..., h6
- img

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Comments

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<!-- This is a comment -->

This paragraph, is also a comment...

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• <!--

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Special HTML

- < • \rightarrow <
- > >
- & & \rightarrow
 - \rightarrow space

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Anchor Tag (Links)

Absolute HREFs specify fully qualified URLs.

TU In this directory! In sub-directory a!

Relative HREFs are relative to the directory containing the current HTML file.

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Hypertext Links

Links can contain images and other text-level elements

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Hypertext Links

Link to Section.

Name a Section.

 Go to paragraph 1. le s
Paragraph 1.

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Tables

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- ... for header row
- ... for each element in a row

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Table Example

row 1, cell 1 row 1, cell 2 row 2, cell 1 row 2, cell 2 onClick(View view

onGreate(Rise) row 1, cell 1 row 1, cell 2 row 2, cell 1 row 2, cell 2



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Table properties

- Align
 - The Align attribute gives the horizontal alignment of the table as a whole
 - Legal values are LEFT, RIGHT, and CENTER. Left is the default.
 - Border
 - This specifies the width in pixels of the border around the table
 - This is in addition to the border around each cell
 - The default is zero.

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Table properties

- CellSpacing
 - This gives the space in pixels between adjacent cells. Drawn as a 3D line if Border is nonzero, otherwise empty space in the background color is used.
 - The default is usually about 3.
 - CellPadding
 - Determines the empty space, in pixels, between the cell's border and the element
 - The default is 1.

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Table properties

- Width and Height
 - Specifies the width of the table, either in pixels (current browser window width (width="75%").
 - The same with Height.
 - BgColor
 - Specify the background color of the table
 - Works also with TR, TD and TH

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Mannactivity extends c android.webkit.w **Override**webkit.WebViewClient; public void onGreate(Bundle's Super.onCreate(savedInsta @ovesetContentView(R.layout.a **FORMS AND USER INPUT** public void onClick(View view 9/29/2014 13 Ach

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The Form tag

A form is an area that can contain form elements.

<form></form>

- HTML forms are used to pass data to a server.
- HTML forms gather information from user input.

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Common Form Elements

- Commonly used form elements includes:
 - Text fields
 - Radio buttons
 - Checkboxes
 - Submit buttons
 - And also:
 - select lists, textarea, fieldset, legend, and label elements.

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Text Input Fields

 Used when you want the user to type letters, number, etc.

<form>

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Password Field

- Used when the user needs to enter password.
- The characters in a password field are masked (shown as asterisks or circles).

<form>

Password: <input type="password" name="pwd" />

</form>

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Submission Button

 When user clicks on the "Submit" button, the content of the form is sent to another file. <form name="input" action="html form_action.asp" method="get"> Username: <input type="text" name="user"/> n d
 <input type="submit" value="Submit"/> </form>

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Check-Boxes

 Used when you want the user to select one or more options of a limited number of choices.
 <form>

<input type="checkbox"
name="bike" value="bike"/> I have a bike

<input type="checkbox"
name="car" value="car"/> I have a car
</form>

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Radio Buttons

 Used when you want the user to select one of a limited number of choices.
 <form>

<input type="radio" name="sex" value="male"/> Male
<input type="radio" name="sex" value="female"/> Female </form>

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Drop-down Menu

- Used when you want user to respond with one specific answer with choices you have given.
- The <select> tag is used to create a select list (drop-down list).
- The <option> tags inside the select element define the available options in the list.

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Drop-down Menu

• Example:

<elect a fruit:</p><select name="Fruits"><option selected> Apples </option><option> Bananas </option><option> Oranges </option>

TextArea

- The <textarea> tag defines a multi-line text input control.
- A text area can hold an unlimited number of characters, and the text renders in a fixedwidth font (usually Courier).
- The size of a textarea can be specified by the cols and rows attributes, or even better; through CSS' height and width properties.

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TextArea

<textarea rows="2" cols="20">

The text area contains whatever text we like. And it has the same formatting! << ^-^ >> d1 </textarea>

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The text area contains whatever text we like.

public void onClick(View view

Fieldset

- Defines a border around elements in a form.
- The <fieldset> tag is used to logically group together elements in a form.
- The <fieldset> tag draws a box around the related form elements.
- The <legend> tag defines a caption for the fieldset element.

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Fieldset

<fieldset> <legend>Personal info:</legend> Name: <input type="text" size="23" />
 Password: <input type="password" size="19" />
 Date of birth: <input type="text" size="16" /> </fieldset>

public void

Personal info:	
Name:	
Passwo	ord:
Date of	birth:

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ort android webkit webview, extends **Override** webkit.WebViewClient; public void onGreate(Bundle's Super.onCreate(savedInsta @ovesetContentView(R.layout.a }public voi tanceState **HTML5 BASICS** public void onClick(View view tottent webview = (Webview) Time

Background

- HTML5 is new standard for HTML. It's an output of joint ds efforts from W3C (World Wide Web Consortium) and WHATWG (Web Hypertext Application Technology Working Group).
- The previous version of HTML, is HTML 4.01, came in 1999.
- HTML5 is still a work in progress. However, the major a browsers support many of the new HTML5 elements and APIs.

public void onClick(View view

Why we need HTML5? **OO**V

Early days





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Why we need HTML5?

It introduces more efficient markup to eliminate the use of external plugging like Adobe Flash Player.

HTML5 also reduces the use of scripting languages and it's more SEO friendly.

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It is device independent and supported by latest versions of all major web browsers.

public void onclick(View view (Webview) find they call

```
Basic/Minimal Structure of HTML5 Document
                                              PI
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8"/>
k href="css/some-stylesheet.css" rel="stylesheet"/>
<script src="scripts/some-script.js">
                                                     ta
</script>
</head>
                                                     ng
< body>
</body>
</html>
```

New Features of HTML5

New Semantic\Structural Elements of HTML5 end

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- New Attributes
- New Input Elements of HTML5
- Canvas Element
- Media Elements(Video\Audio)
- Drag and Drop Feature
- Geolocation Support
- SVG (Scalable Vector Graphics)
- Web Storage
- Offline Support

The Figure Element

- HTML Older version Code

 Image of Mars. .
- HTML5

<figure>

 <figcaption>

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This is an image of something interesting.</figcaption>

</figure>

public void onclick(View view (Webview) find the the the Niew (Webview) find

No More Types for Scripts and Links HTML Older Version Code. k rel="stylesheet" href="path/to/stylesheet.css" type="text/css" /> <script type="text/javascript" src="path/to/script.js"></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script>< sta

• HTML5

k rel="stylesheet" href="path/to/stylesheet.css" /></script src="path/to/script.js"></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script><

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Make your Content Editable

- **HTML Older Version** We need to add some client side script to make the things happened.
- HTML5

> Break mechanical cab driver. nd > Drive to abandoned factory Vatch video of self

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New Semantic/Structural Elements of HTML5

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- <article>
- <aside>
- <header>
- <footer>
- <section>
- <nav>
- <summary>
- <figure>
- <figcaption>
- Many more...

New Input Elements of HTML5

- <input type = "color" />
- <input type = "date" />
- <input type = "datetime" />
- <input type = "datetime-local" />
- <input type = "email" />
- <input type = "month" />
- <input type = "number" />
- <input type = "range" />
- <input type = "search" />
- <input type = "tel" />
- <input type = "time" />
- <input type = "url" />
- <input type = "week" />

testing (Webview) find

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Email Input Element

- HTML Older Version Code.
 <form action="" method="get"></label for="email">Email:</label></label for="email">Email:</label>
 <input id="email" name="email" type= "text" />
 <button type="submit">Submit Form </button>
 </form>
- HTML5

<form action="" method="get"> <label for="email">Email:</label> <input id="email" name="email" type="email" /> <button type="submit"> Submit Form </button> </form>

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Required Attribute

- HTML Older Version
 We need to required some client side script to validate the things.
- HTML5

<form method="post" action=""> <label for="someInput"> Your Name: </label> <input type="text" id="someInput" name="someInput" placeholder= "John Doe" required>

<button type="submit">Go</button>

</form>

Placeholder

HTML Older Version

We need to add some client side script to make the things happened.

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• HTML5

<form method="post" action="">

<label for="someInput"> Your Name: </label>

<input type="text" id="someInput"
name="someInput" placeholder="Enter your name"
required>

public void onclick(View view (Webview) find Interverview (Webview) (All

Media Elements

<Audio> Tag

 The <Audio> element is a standard way to embed an audio file on a web page.

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- HTML5 solves the dependence on external third party plug ins (like Flash)
- Supported Format's: .Ogg, .MP3 and .WAV

<audio src="newsong.ogg" controls="controls">
<Your browser does not support HTML5</p>
</audio>

Media Elements

<Video> Tag

 The < Video > element is a standard way to embed an video file on a web page. ds

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nd

- HTML5 solves the dependence on external third party plug ins (like Flash)
- Supported Format's: .Ogg, . MP4 and . WebM

<video src="video.AVI" type="video/ AVI" controls /> <Your browser does not support HTML5</p> </video>

public void onclick(View view (Webview) view thet ant met view new call

Drag N Drop

- HTML5 supports drag\drop with the help of scripting.
- No Need for any third party plugin(Jquery\DOJO).
- We have to just add draggable=true attribute on to the element you want to make moveable.
- There are a number of different events to attach to for monitoring the entire drag and drop process:

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- dragstart
- drag
- dragenter
- dragleave
- dragover
- drop
- dragend

Canvas Element

- <canvas> Element helps browser to draw shapes and images without any plugin.
- <canvas> element is used to draw graphics, on the fly, via scripting.
- <canvas> has several methods for drawing paths, boxes, circles, characters, and adding images.

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<canvas id="mycanvas" width="400" height="300"> Your browser does not support HTML5 </canvas>

public void onclick(View view (Webview) find the tent webview = (Webview) find (Mebview) find

Offline Support

With HTML5 it is easy to make an offline version of a web application, by creating a cache manifest file. It offers following benefits

- Offline Browsing
- Speed
- Reduced server load

<html manifest="example.appcache">

</html>

The cache manifest file is a simple text file that lists the resources the browser should cache for offline access.

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To test your browser for HTML5 ktends

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http://html5test.com/

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MainActivity extends c android webkit.w doverride webkit.WebViewClient; public.void.c

Thank you for your attention!



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