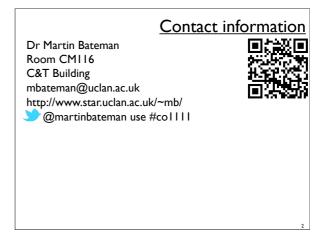
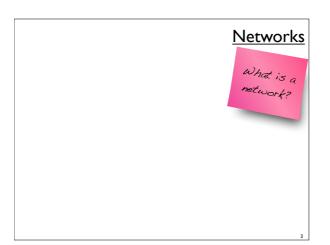
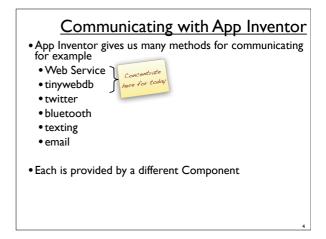
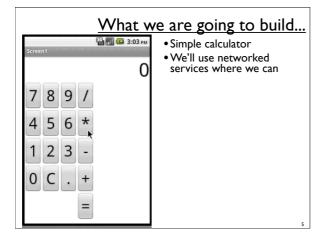
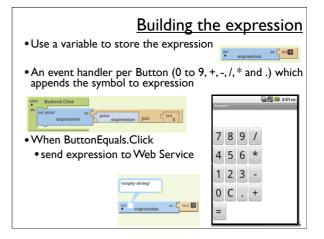
Using the Network

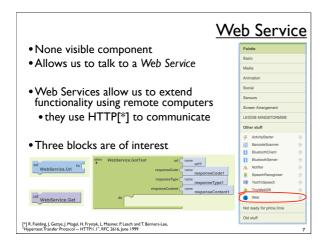


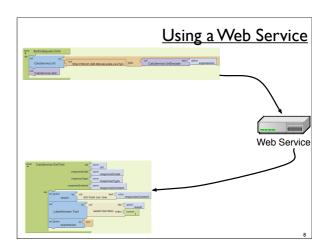


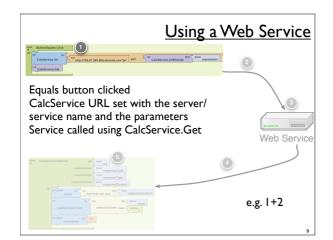


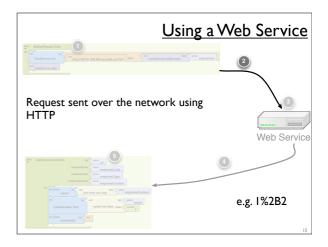


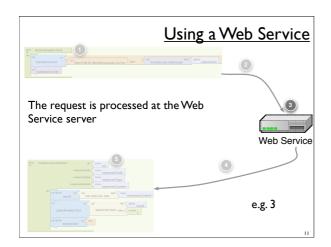


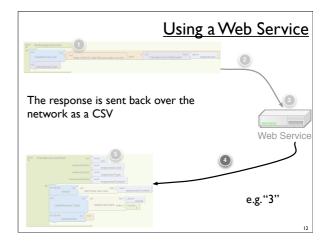


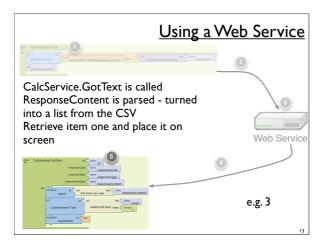












Passing parameters to Web Services

• We pass the parameters to our Web Service as part of the URI such as

http://193.61.245.60:80/calculate.csv?parameter=value

FIT Respect Lee R. Fielding and J. Marinter "Linform Resource Identifier (LIRI): Generic Systax" REC 3986 January 2005

Passing parameters to Web Services

• We pass the parameters to our Web Service as part of the URI such as

http://193.61.245.60:80/calculate.csv?parameter=value

- is
 - the protocol we are using to communicate
 - in this case the HyperTextTransfer Protocol the same protocol as the World Wide Web

[*]T. Berners-Lee,, R. Fielding and L. Masinter, "Uniform Resource Identifier (URI): Generic Syntax", RFC 3986, January 2005

Passing parameters to Web Services

• We pass the parameters to our Web Service as part of the URI such as

http://193.61.245.60:80/calculate.csv?parameter=value

- is
 - the computer we are talking to
- normally we'd use a hostname here I'm using an IP address

[*]T. Berners-Lee,, R. Fielding and L. Masinter, "Uniform Resource Identifier (URI): Generic Syntax", RFC 3986, January 2005

Passing parameters to Web Services

• We pass the parameters to our Web Service as part of the URI such as

http://193.61.245.60:80/calculate.csv?parameter=value

- is
- the port on the computer used to identify a piece of software
- HTTP by default uses port 80 so we normally omit it

Passing parameters to Web Services

• We pass the parameters to our Web Service as part of the URI such as

http://193.61.245.60:80/calculate.csv?parameter=value

- is
- the name of the Web Service
- here calculate.csv for a calculator service
 - the file extension (csv) is an artefact of our Web Service hosting environment

[*]T. Berners-Lee,, R. Fielding and L. Masinter, "Uniform Resource Identifier (URI): Generic Syntax", RFC 3986, January 2005

T. Berners-Lee,, R. Fielding and L. Masinter, "Uniform Resource Identifier (URI): Generic Syntax", RFC 3986, January 2005

1

this a bad thing?

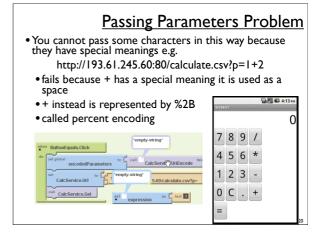
Passing parameters to Web Services

• We pass the parameters to our Web Service as part of the URI such as

http://193.61.245.60:80/calculate.csv?parameter=value

- is
 - a list of parameters to pass to the Web Service this is similar to the parameters passed to a procedure
 - the question mark (?) shows the start of the parameter list
 - value is passed to the Web Service with the name parameter
 - use ampersand (&) to separate parameters, e.g.
 - [...]?parameter | =value | ¶meter 2 =value 2[...]

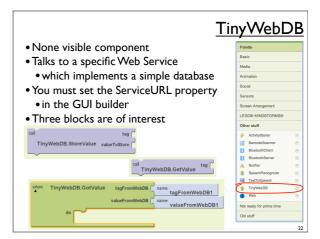
[*]T. Berners-Lee,, R. Fielding and L. Masinter, "Uniform Resource Identifier (URI): Generic Syntax", RFC 3986, January 2005

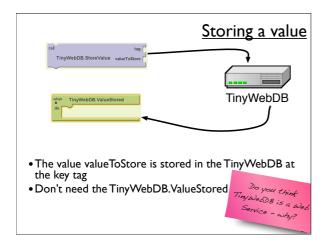


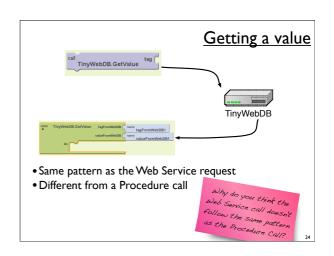
And now for some memory

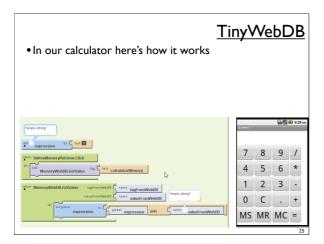
- Calculators have memorysingle value memory
- Let's use a network accessible database called TinyWebDB
- Extends the TinyDB idea
- Database is hosted in the network rather than on the phone











This week's challenge

- Build a quiz application
 - you've done one with a local list of questions
 - now use remote services for
 - questions
 - storing scores
- Use the Quiz Web Service (see today's Lab sheet for details)
- After Brendan's lectures
 - designed and polished feel to the user interface

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