



# Application Development for Mobile and Ubiquitous Computing

## Don't Forget Your Toothbrush First Presentation

GroupNo. 7

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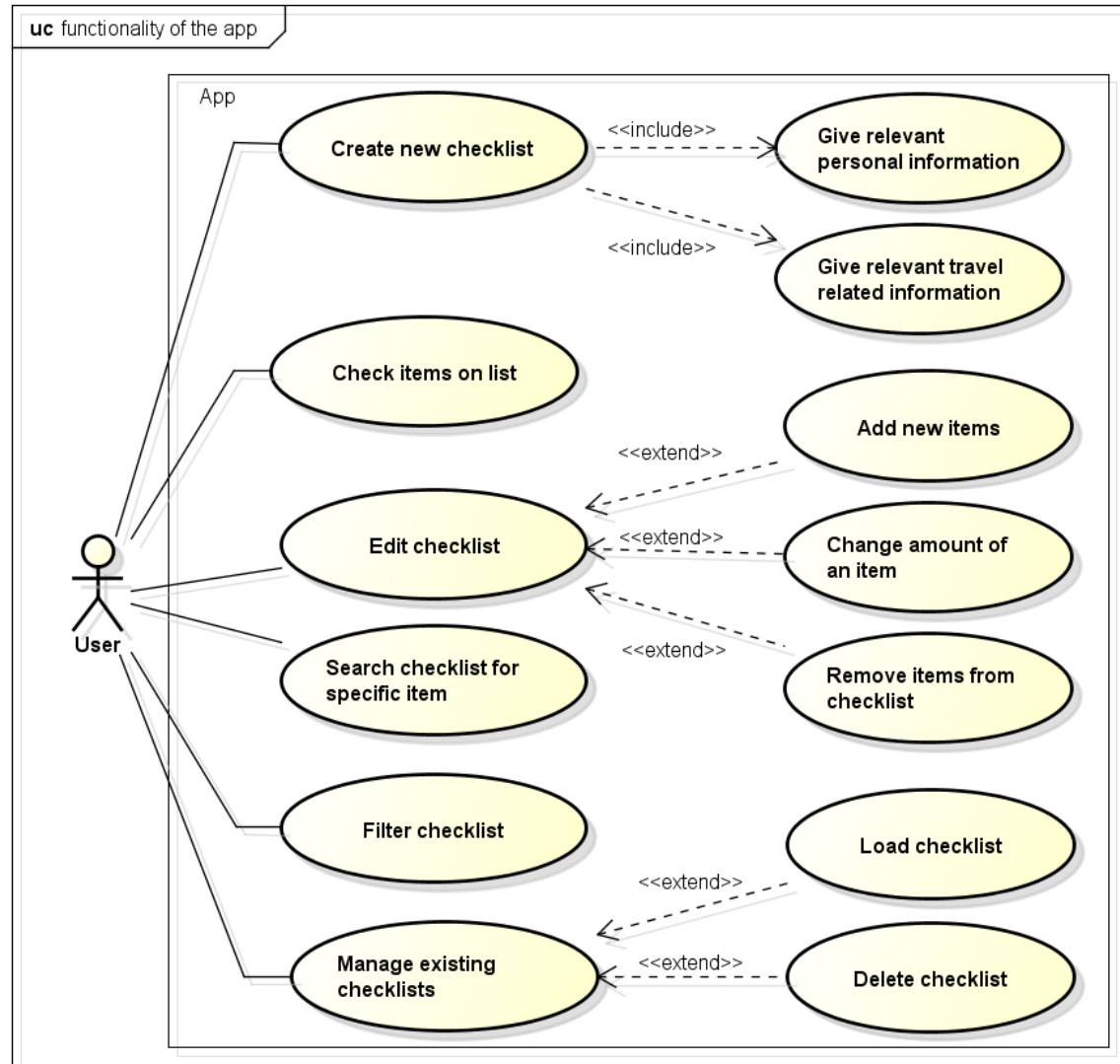
- traveling, especially to foreign countries, requires meticulous planning:
  - red tape everywhere
  - different plugs and currencies
  - memorize required items for all party members
- possible result: “Did I pack my toothbrush?”



# Don't Forget Your Toothbrush

- luggage checklist
- user input:
  - participants (kids, pets)
  - destination, travel time
  - activities
  - mean of transportation
- automatically creates checklist with required items
- custom entries





12:00

Create new Checklist

DESTINATION

Country

Accommodation type

TRAVEL TIME

From Fri, Nov 7, 2014

To Sun, Nov 16, 2014

ADDITIONAL INFORMATION

Washing machine accessible?

12:00

Switzerland Checklist

Carl | Joanne | All

CLOTHING

Warm Coat

Scarf

Underwear 7

Warm Pants 3

SANITARY PRODUCTS

Toothbrush and -paste

Shampoo

Shower gel

12:00

Older Checklists

Trip Spain 2012

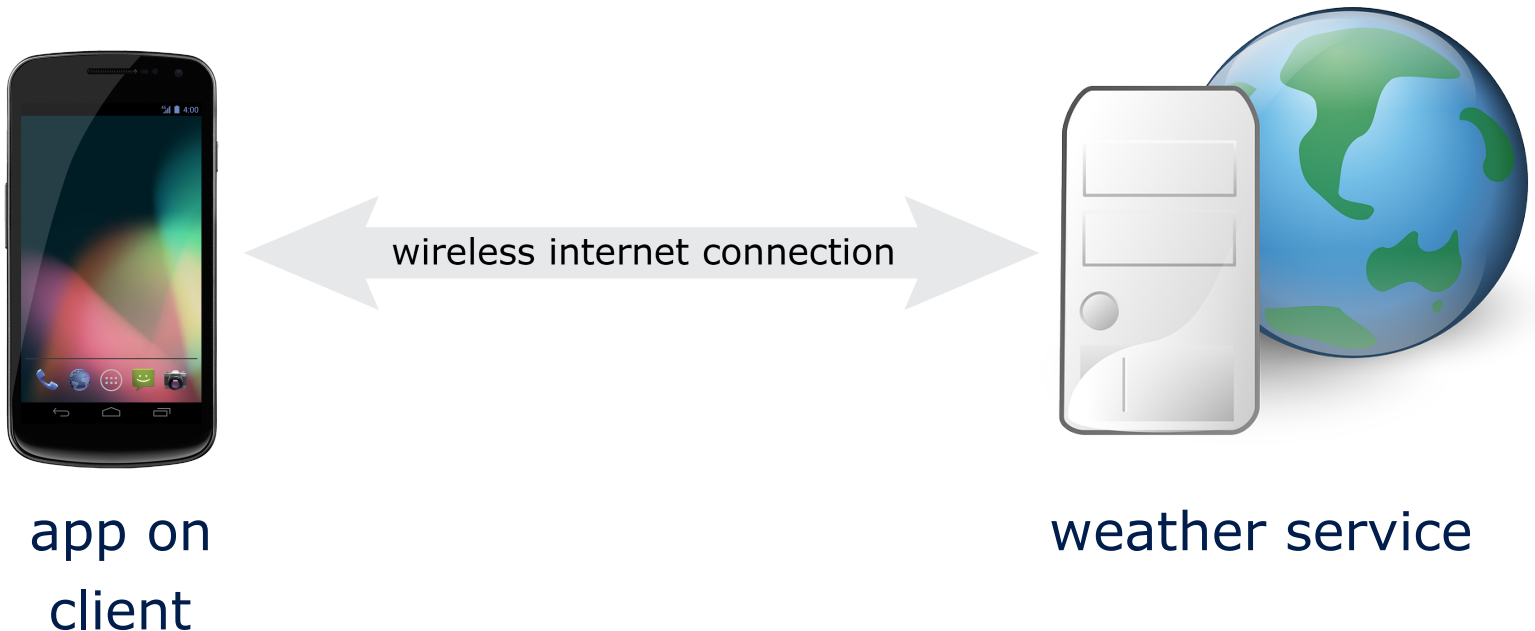
Paris Weekend

UK May 2013

New Zealand 2011

- Technologies
  - Android application
  - SQLite or XML database for travel guidelines and frequently used items
  - external weather service, e. g. openweather API from [wetter.com](http://wetter.com)

- Architecture
  - mostly stand-alone application
  - external communication to weather service



- Usability
  - deal with heterogeneous user requirements (different countries; children, pets)
  - display lots of information in a comprehensive way
- Offline Challenge
  - enable checklist function even if weather information cannot be fetched
- Battery Challenge
  - disable or adapt behavior of power consuming components if battery runs low



- November
  - design UI in detail: dummy GUI prototype
  - construct sample databases
  - start back end implementation (e. g. container for user data)
- December
  - finalize back end implementation
  - connect UI and back end components
- January
  - bug fixes and documentation
  - optimize resource handling, energy consumption

- **slide 2:** image from <http://pixabay.com/de/koffer-reisen-gep-%C3%A4ck-urlaub-packen-64355/>; license: CC0 Public Domain (<http://creativecommons.org/publicdomain/zero/1.0/deed.de>)
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