

## Apps / Experiments



Experiment 1

Experiment 2

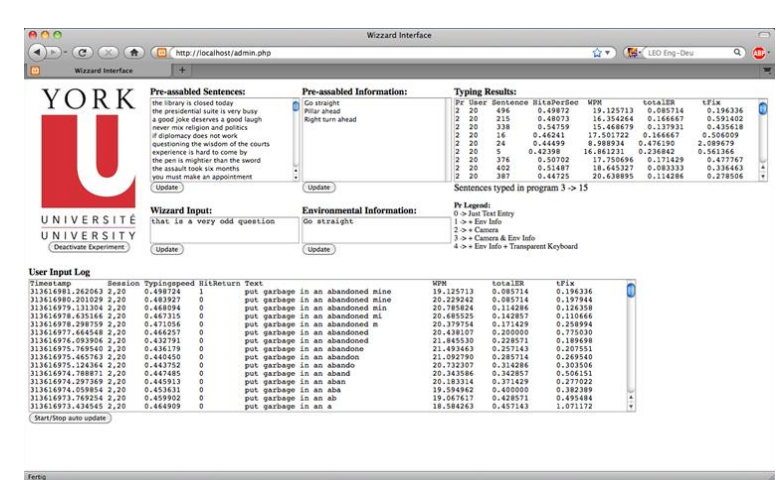
Experiment 3

Experiment 4

Experiment 5

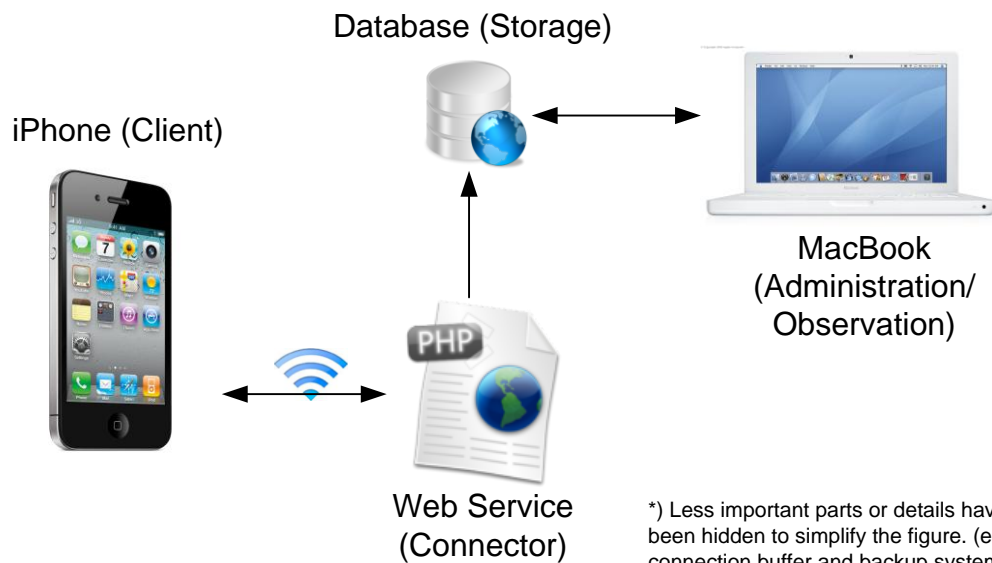
- Average typing and walking speed are measured before the experiment begins
- Experiments are performed in random order and observed at the admin interface
- Data is stored in a database and processed at the iPhone in real time

## Administration Interface



Helps to remotely control and observe the experiment which is in progress.

## System Architecture\*



\*) Less important parts or details have been hidden to simplify the figure. (e.g. connection buffer and backup system)

## General Information

- Research on the impact of different assistive technologies while typing and walking at the same time with the iPhone
- Main target is to identify real statistics with real users without estimating or anticipating results
- To achieve that a architecture has been developed to make conduction and analysis of the experiments more convenient
- Apps can be controlled and observed remotely in real time
- Connection between iPhone apps and database via web service
- Input buffer solves problem of connection issues
- Delayed transmission and local logging in case of problems
- Technology easy to transfer and to customize for new projects
- Automatic backup system to save project from data loss
- Extensive data analysis possibilities already on database level
- *Results will be published at Mobile HCI 2011 at Stockholm*