Heads Up Display (HUD) using Google Glass
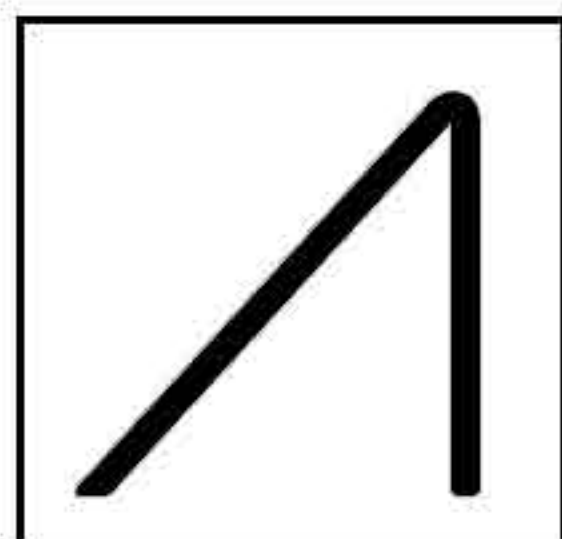
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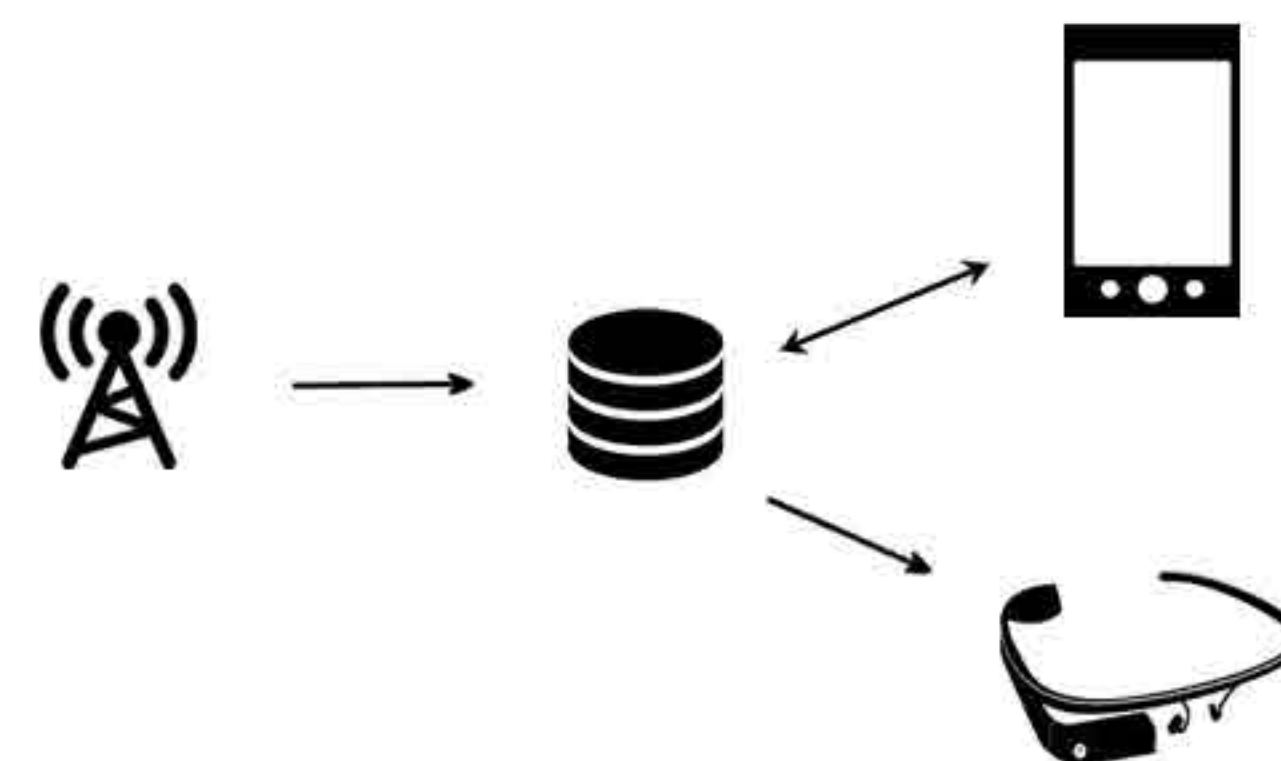
Introduction

This project is a solution for displaying data from a repository populated by wireless mesh networks with attached sensors. This idea was put into practice by developing Android applications for Google Glass and for smartphones, providing a user friendly interface for viewing the data within MySQL, integrating voice activation and a variety of output formats.

Objective

With an innovative design, the objective of the project is to change the way that people see the information sent by a machine, giving a new perspective of how a simple wearable device or a smartphone can immerge into the market as more than an entertainment platform, but as a helpful tool for professionals who work with research and analysis of data.

System Overview

1- The meshed network sensors read all the information about the eviroment and save it in the MySQL database.

2- The android device starts the interaction with the MySQL server.
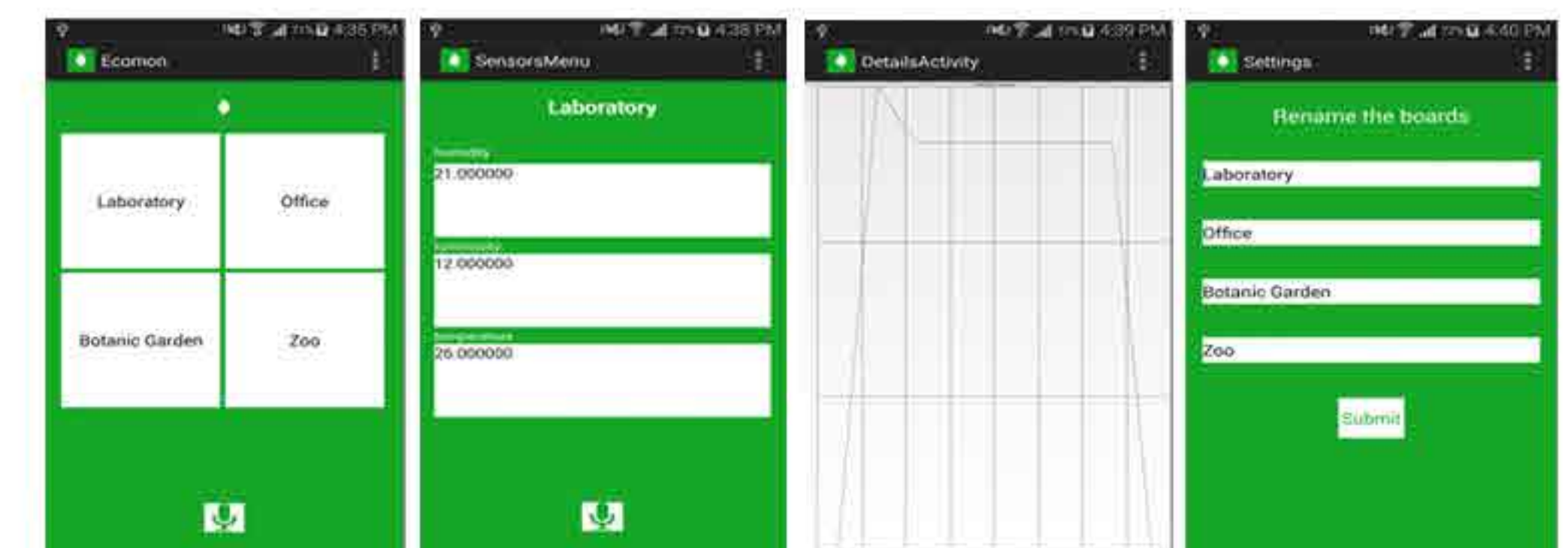
→ When starting the Android application in a smart-phone, the device reads the information from the database and displays it in a simple interface. In addition, it permits the users to change the name of the connected boards.

→ When starting the Android application with a Google Glass, the device works in a similar way of a phone; however, the interaction with the application is friendlier to the user, but in this ocasion, the boards' names cannot be changed.
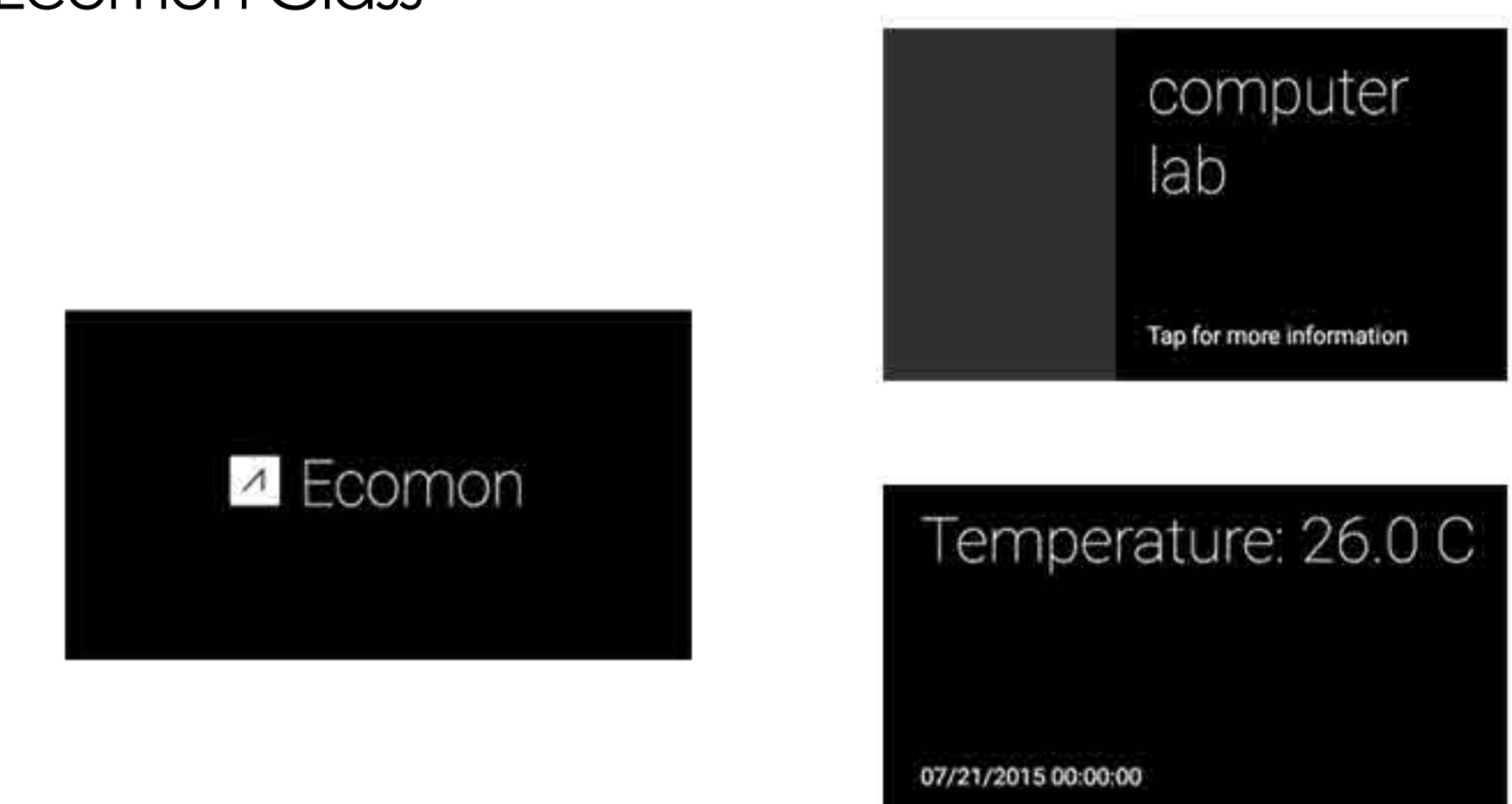
Result

Ecomon

Ecomon Glass

Acknowledgements