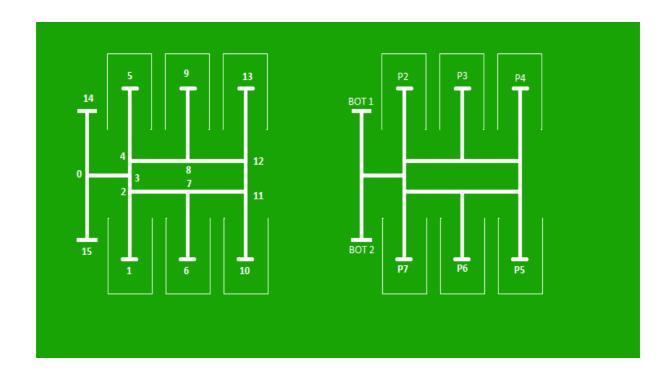
CS308 README



CS308 - 2011 Project

Project: Patient Service System



Project Title: Patient Service System

Students:

Name	Roll No.	Email
Pritish Kamath	8005004	pritishkamath@iitb.ac.in
Rohit Saraf	8005040	rohitsaraf@iitb.ac.in
Ashish Mathew	8d10035	ashishmathew@iitb.ac.in
Vivek Madan	8005035	vivekmadan@iitb.ac.in

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Project Objective

The project aims at helping the patients and hostipal management by providing automated service bots, who can be called by the patient simply by using a cheap TV remote, and who provide a guarantee of no-deadlock/race conditions. The server uses a full fledged database (MySQL) to maintain the queue and manages the bot wisely using a perfectly scalable design. The bots are fair to all the patients. The bot notifies the guards if it is blocked by an SMS.

^{*} For more details, see the code documentation.

Hardware Platform

- 1.2 x Firebird V ATMEGA2560
- 2. Programmer, Linux(Ubuntu) system
- 3. X-Bee and TSOP sensor in the bots
- 4. TV Remote

Software

- 1. avrdude
- 2. avr-libc
- 3. gcc-avr
- 4. JDK
- 5. MySQL
- 6. All the software can be installed using ./install It will install all the dependencies on an ubuntu system.

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Code Description

Filename Purpose Executes on

Src/BOT_CODE/* Code required for bot Robots

Src/SERVER CODE/* Server code PC

Install Install dependencies PC

and generate makefile to run the project

Deliverables

gz

Filename Contains

cs308_group13.tar. SourceCode of

programs to be burnt on Robot as well as to be executed on PC.

Contains

documentation of the

code as well.

Install script (details below), Makefile

Execution Instructions (Ubuntu)

To execute the code for the first time, run the install script as

sudo ./install (requires proxy settings)

This will install all the dependencies and drivers required for the project and generate a Makefile.

Note:

1. The properties file **config/config.properties** might require a change. (e.g. Zigbee COM port, Database settings)

Then to

compile the server code - **make server**

To run the server code - make run

To compile and program the serving bot no 1.

- make bot

To compile and program the serving bot no 1.

- make bot1

To compile and program the patient IR handler bot

- make patient

To clean - **make clean**

To open the documentation - make doc

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Execution Instructions (Windows)

It will require changing the jar files and the makefile. We do not provide any configuration for windows system.

The code has been written and tested on Ubuntu 10.10 and 11.04.