Project Name: Dynamic Scheduler for smart management of Queues

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Idea: This report proposes a novel implementation of a smart and cost effective scheduling system .The proposed dynamic scheduler is implemented using TM4C123 ARM Cortex microcontroller. The scheduling data is stored and analyzed on a cloud server to which data is transmitted from the microcontroller via a GSM module (namely SIM900).Adequate peripherals are added to this mechanism to guarantee the security and reliable working of the system. The methodologies of interfacing the microcontroller with the GSM module is explained along with the database management technique used. Efficiency of the scheduler is established by presenting the results obtained from testing as a scheduler for washing machine.

Components used: TM4C, SIM900 gprs module,LCD display,Keypad,XAMPP to make the web page and database for storing user data. the website was hosted on www.hostinger.in for testing and demo purposes.

Files in the Zip folder:

1. finish.php :This file gives details about the next user in line to the TM4C.
2. getstateofnumber.php:This file gives the information about the particular user position in line when he registers.
3. Persontobeserved.php:This file gives details about the person to be served now to TM$C.
4. Embedded(folder):This contains all the website file.user registeration,Authentication,people in line,facility to register from the web.
5. Main.ino:This file runs on TM4C.All the operations such as sending sms,making contact with webserver,authenticating the user when he comes to use the machine etc