

SPL (Lab project)

Online Smart card enquiry

Introduction

Online smart card enquiry system is a client/server system that helps citizens to check the remaining balance of benzene.

Project description

The system consists of two parts:

Server side:

- 1- Define a data structure that smart card numbers, car number, monthly limit, and current consumption.
- 2- A screen that helps admin to add, remove, and update a cards.
- 3- Server that works on port 3120.
- 4- Server accepts clients.
- 5- Server response for two types of questions:
 - a. Card enquiry which returns the current consumption value.
 - b. Filling benzene: checks that monthly limit is not reached, and then add the amount to the current consumption.

Gas Station Side:

- 1- GUI that helps users to use the system.
- 2- Card enquiry: send card number to the server to check the current composition fuel of a car.
- 3- Filling benzene: send the card number and the amount of filling.

Notes:

- 1- **Team working:** two students together.
- 2- Estimated time is two weeks.
- 3- Grade: 15 marks.