

„E-Car Registration” Project

Problem description

Let us assume that the owner of a Logan car wants to matriculate his or her vehicle, using a software system. Regarding the software system, the owner is an user which access it with the objective to matriculate his or her car. In addition, the system is used by:

- the insurance agent which releases the insurance policy
- the civil servant from the financial agency
- the civil servant from the matriculation office of the Public Service of Driving License and Vehicles Registration
- the cashier

First of all, any user has to register to the system, by a account creation with username and password. In order to do this, the system shows a registration form. The user introduces the first and last name, PNC, username and the password. The system memorizes the data.

After that the owner is registered in the system, he or she asks to the system to matriculate its own car. The system displays an application form that the owner fills in with information (from the identity card and the vehicle property card) and the system verifies the data. If these are correct, the system sends the application to the matriculation office and it memorizes the event.

Furthermore, the system shows another form in which it asks to the user to fill in with information from the car identity card. The system verifies the data, creates the matriculation record and sends it to the financial agency. In addition, the system shows the period in which the owner has to present to the financial agency to pay the matriculation fee (52 RON). When he or she pays, the civil servant from the financial agency announces the system that the payment has been done. Now, the system displays a form in which the civil servant introduces data about the owner and payment, and the system prints an invoice. In addition, the system prints the matriculation record that the clerk signs and stamps it.

Having the matriculation record, the owner logs again in the system and chooses the kind of the RCA insurance policy (of six or twelve months). The system displays a form and the owner fills in with information from the identity card and vehicle property card. The system verifies the data and sends them to the insurance company. In addition, the system displays the number of days in which the owner has to present to the insurance company to make the payments and take the insurance policy. When he or she pays, the agent announces the system that the payments have been done. Now, the system displays a form in which the agent introduces data about the owner and payment, and the system prints the insurance policy that the clerk and the owner sign it.

Having the necessary documents, the owner logs again in the system and the later asks for the choosing of the kind of numbers: preferential or not. In the first case, the owner inserts the wanted car number. The system sends the data at the matriculation office of the Public Service of Driving License and Vehicles Registration. In addition, the system shows a message with the number of days in which the owner has to go to the matriculation office.

So, the owner goes to the matriculation office with a file that contains all the above documents and he or she pays the fee (29 RON). After that, the cashier logs in the system and asks for the invoice releasing. The system prints the invoice and displays the matriculation certificate. The clerk verifies the documents brought by owner and asks to the system to release the certificate. The system prints it and the clerk signs and stamps it.

Project Task: Design and implement the “E-Car Registration” software system.