INHA University in Tashkent
Department of ICE 15-2
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SOC 3010 – OPERATING SYSTEM
TERM PROJECT PRESENTATION
ONLINE FINE SYSTEM FOR DRIVERS

Submitted by

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Abstract

Modern Traffic cameras are very useful and best way to make roads safe and drivers aware.

This project is focused on automating camera – driver attitude.

In our project we used database system, client- server architecture, C language and Linux environment.

Introduction

Our Government is paying more attention for safety on roads

Problems:

Drivers can not know if they have fine from government or not
If fine is out of date it will go up to court

So 'OnlineFineSystem' will give opportunity for all drivers to check and be informed if they have debt from government or not

Project overview

Access to the system


```
Welcome to Online Fine system for drivers
 Ready for Work....
Enter login: migo
Enter password: 12345
```
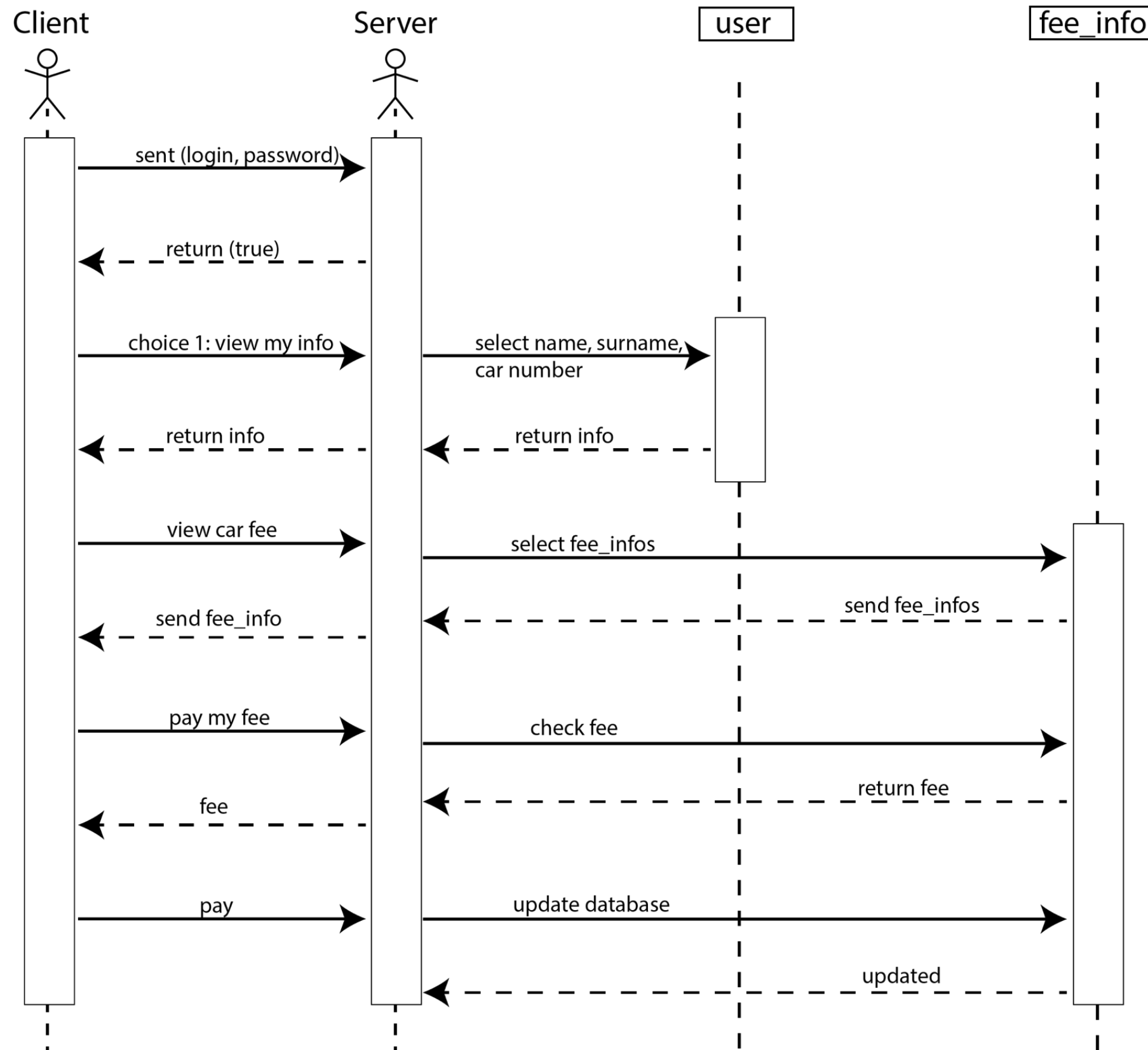
Project overview

Entered to the system

Requirements definition

Project design and implementation


```
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
~ Welcome migo to the system~
~ Choose options from menu:          ~
~ 1. View my info                    ~
~ 2. View my car fee                 ~
~ 3. Pay my fee                      ~
~ 4. Logout from system              ~
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
```

Result and discussion

Result and discussion

Server   Client

Result and discussion


```
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
~ Welcome migo to the system~
~ Choose options from menu:        ~
~ 1. View my info                  ~
~ 2. View my car fee               ~
~ 3. Pay my fee                    ~
~ 4. Logout from system            ~
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
```

Driver enters 1


```
1
your choice: 1
Your Name: "Mirzo-Golib"
Your Surname:  "Suvonberdiyev"
Your Car Number: "01A777AA"
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
~ Welcome migo to the system~
~ Choose options from menu:        ~
~ 1. View my info                  ~
~ 2. View my car fee               ~
~ 3. Pay my fee                    ~
~ 4. Logout from system            ~
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
```

Driver has car number 01A777AA

Result and discussion

User enters 2

```
client choice is 2
Exceeding speed to 100km/hr
Tashkent
200,000 sum
2017-12-12
not payed
```

Server

```
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
2
your choice: 2
Reason for penalizing: Exceeding speed to 100km/hr
Place of breaking rules:  Tashkent
Cost of fee: 200,000 sum
When it happened: 2017-12-12
Status of fee: not payed
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
~ Welcome migo to the system~
~ Choose options from menu:        ~
~ 1. View my info                  ~
~ 2. View my car fee               ~
~ 3. Pay my fee                    ~
~ 4. Logout from system            ~
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
```

Client

Result and discussion

User enters 3

```
3
your choice: 3
Paying function
You should Pay 200,000 sum
Do you pay 200,000 sum?
If yes enter 1(if not 0):
```

if user don't want to pay and enters 0

```
If yes enter 1(if not 0): 0
your choice: 0
Not Payed
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
~ Welcome migo to the system~
~ Choose options from menu:          ~
~ 1. View my info                    ~
~ 2. View my car fee                 ~
~ 3. Pay my fee                      ~
~ 4. Logout from system              ~
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
```

Result and discussion

Check database


```
mysql> select * from fee_info;
+----+------------+-------------------------------+-------------------------------+-------------+-------------+-----------+------------+
| id | car_number | name                          | place                         | fee         | signup_date | status    | payed_date |
+----+------------+-------------------------------+-------------------------------+-------------+-------------+-----------+------------+
|  1 | 01A777AA   | Exceeding speed to 100km/hr   | Tashkent                      | 200,000 sum | 2017-12-12  | not payed | NULL       |
|  2 | 01A007AA   | Leaving car in not allowed place | Tashkent                   | 150,000 sum | 2017-12-09  | not payed | NULL       |
|  3 | 01A011AA   | Crossing way in red light     | Tashkent                      | 80,000 sum  | 2017-12-11  | payed     | 2017-12-17 |
|  4 | 01A011AA   | Crossing way in red light     | Tashkent                      | 120,000 sum | 2017-12-18  | payed     | 2017-12-17 |
|  5 | 01A222AA   | Exceeding speed to 110km/hr   | Tashkent, Mirzo-Ulugbek-15 way | 240,000 sum | 2017-12-01  | not payed | NULL       |
|  6 | 01A555AA   | Exceeding speed to 110km/hr   | Tashkent, Mirzo-Ulugbek-15 way | 240,000 sum | 2017-12-01  | not payed | NULL       |
+----+------------+-------------------------------+-------------------------------+-------------+-------------+-----------+------------+
6 rows in set (0.00 sec)

mysql> select * from fee_info;
```

Result and discussion

User enters 3

```
3
your choice: 3
Paying function
You should Pay 200,000 sum
Do you pay 200,000 sum?
If yes enter 1(if not 0): █
```

if use want to pay and enters 1

```
3
your choice: 3
Paying function
You should Pay 200,000 sum
Do you pay 200,000 sum?
If yes enter 1(if not 0): 1
your choice: 1
You have successfully payed!
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
~ Welcome migo to the system~
~ Choose options from menu:        ~
~ 1. View my info                  ~
~ 2. View my car fee               ~
~ 3. Pay my fee                    ~
~ 4. Logout from system            ~
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
█
```

Result and discussion

User enters 3

```
3
your choice: 3
Paying function
You should Pay 200,000 sum
Do you pay 200,000 sum?
If yes enter 1(if not 0):
```

if user don't want to pay and enters 0

```
If yes enter 1(if not 0): 0
your choice: 0
Not Payed
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
~ Welcome migo to the system~
~ Choose options from menu:              ~
~ 1. View my info                        ~
~ 2. View my car fee                     ~
~ 3. Pay my fee                          ~
~ 4. Logout from system                  ~
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
```

Result and discussion

Check database


```
mysql> select * from fee_info;
+----+------------+--------------------------------+----------------------------------+-------------+-------------+-----------+-------------+
| id | car_number | name                           | place                            | fee         | signup_date | status    | payed_date  |
+----+------------+--------------------------------+----------------------------------+-------------+-------------+-----------+-------------+
|  1 | 01A777AA   | Exceeding speed to 100km/hr    | Tashkent                         | 200,000 sum | 2017-12-12  | payed     | 2017-12-17  |
|  2 | 01A007AA   | Leaving car in not allowed place | Tashkent                       | 150,000 sum | 2017-12-09  | not payed | NULL        |
|  3 | 01A011AA   | Crossing way in red light      | Tashkent                         | 80,000 sum  | 2017-12-11  | payed     | 2017-12-17  |
|  4 | 01A011AA   | Crossing way in red light      | Tashkent                         | 120,000 sum | 2017-12-18  | payed     | 2017-12-17  |
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+----+------------+--------------------------------+----------------------------------+-------------+-------------+-----------+-------------+
6 rows in set (0.00 sec)

mysql>
```

Conclusion

Without going out they can get to know about their violation and pay for it. From now on it will not be problem. It saves labor force, time and money

Future work

Our system just beginning of our work. In this system, we haven't implemented: collection photo of car when it has done violation and give to drivers when they asked.

For beginning our system will work for Tashkent city. If it will be work than if government puts cameras to whole roads of Uzbekistan, our system will come into picture. It will collect all information about drivers and establishes automated system for whole Uzbekistan.

References

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Thank you for attention