



**INHA University in Tashkent**  
**Department of ICE 15-2**  
**Fall Semester 2017**  
**SOC 3010 – OPERATING SYSTEM**  
**TERM PROJECT PRESENTATION**  
**ONLINE FINE SYSTEM FOR DRIVERS**

**Submitted by**

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# Outline

- Abstract (by Bakhodir Solikhov)
- Introduction (by Bakhodir Solikhov)
- Project Overview (by Sirojiddin Jumaev)
- Requirements definition (by Alisher Akbaraliev)
- Project design and implementation (by Mirzo-Golib Suvonberdiyev)
- Result and discussion (by Mirzo-Golib Suvonberdiyev)
- Conclusion (by Mirzo-Golib Suvonberdiyev)
- Future work (by Mirzo-Golib Suvonberdiyev)
- References (by Mirzo-Golib Suvonberdiyev)

# 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If fine is out of date it will go up to court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
```

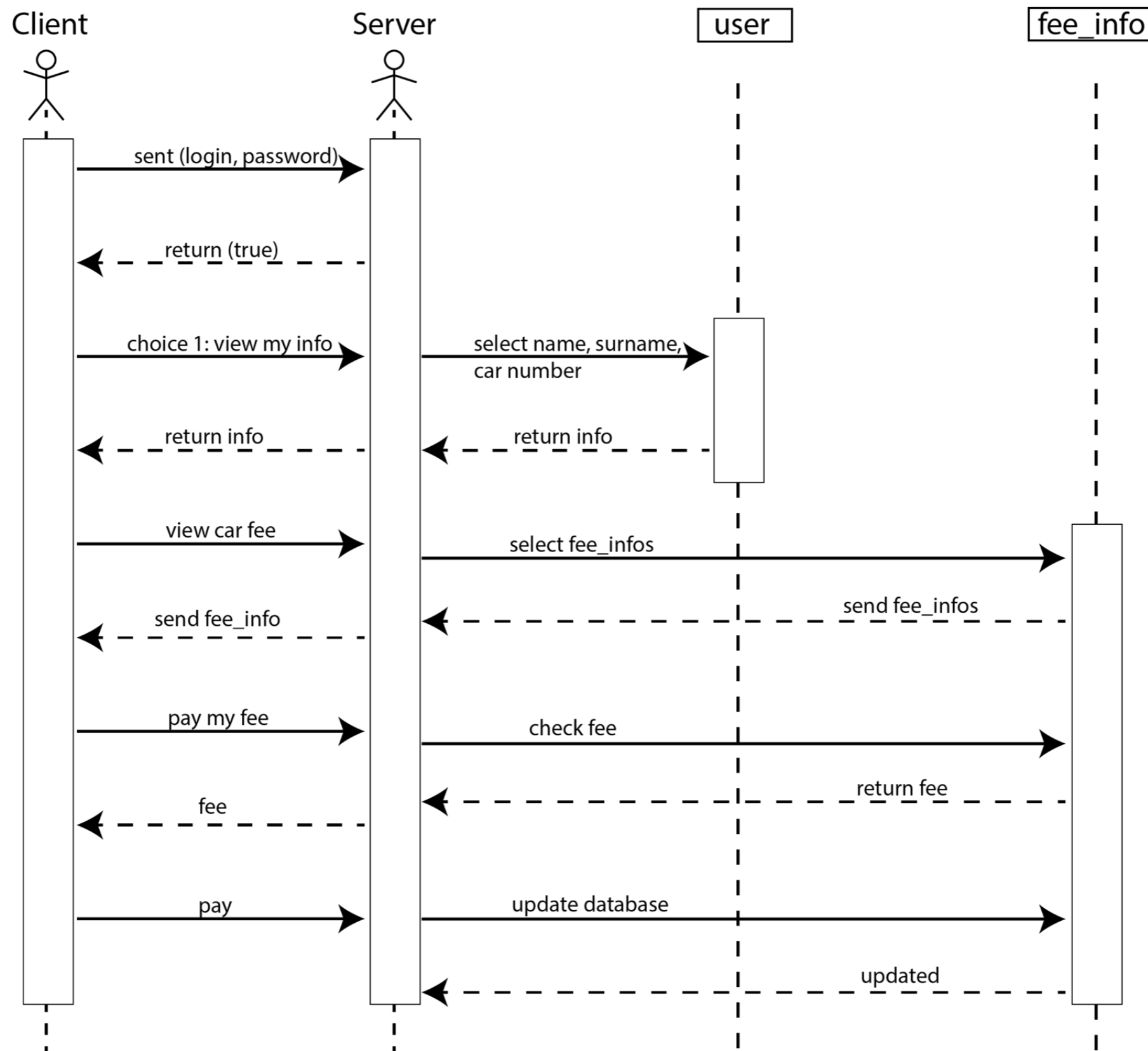
# Project overview



Entered to the system

```
~~~~~  
~ 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 ~  
~~~~~  
█
```

# 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



```
parallels@ubuntu: ~/project
parallels@ubuntu:~/project$ gcc serverWorking.c -o name -std=c99 `mysql_config --cflags --libs`
parallels@ubuntu:~/project$ ./name
CREATING SERVER SOCKET .....
DEFINING SERVER SOCKET OPTIONS, FAMILY, ADDRESS & PORT .....
BINDING SERVER SOCKET TO PORT 8080 .....
SERVER LISTENING ON PORT 8080 FOR NEW CONNECTION.....
```

# Result and discussion



Server

Client

```
parallels@ubuntu: ~/project
parallels@ubuntu:~/project$ gcc serverWorking.c -o name -std=c99 `mysql`
--cflags --libs`
parallels@ubuntu:~/project$ ./name
CREATING SERVER SOCKET .....
DEFINING SERVER SOCKET OPTIONS, FAMILY, ADDRESS & PORT .....
BINDING SERVER SOCKET TO PORT 8080 .....
SERVER LISTENING ON PORT 8080 FOR NEW CONNECTION.....
SERVER ACCEPTED NEW CONNECTION FROM A CLIENT ON PORT 8080..
Hello from client
Ready for Work....
```

```
parallels@ubuntu: ~/project
parallels@ubuntu:~/project$ gcc -o clientWorking clientWorking.c
parallels@ubuntu:~/project$ ./clientWorking
DEFINING SOCKET FAMILY, ADDRESS & PORT .....
CLIENT CONNECTING ON PORT 8080 TO COMMUNICATE WITH SERVER..
Hello message sent
Welcome to Online Fine system for drivers
Ready for Work....
Enter login:
```

```
parallels@ubuntu:~/project$ ./name
CREATING SERVER SOCKET .....
DEFINING SERVER SOCKET OPTIONS, FAMILY, ADDRESS & PORT .....
BINDING SERVER SOCKET TO PORT 8080 .....
SERVER LISTENING ON PORT 8080 FOR NEW CONNECTION.....
SERVER ACCEPTED NEW CONNECTION FROM A CLIENT ON PORT 8080..
Hello from client
Ready for Work....
Login: migo
Password: 12345
01A777AA
true
```

```
DEFINING SOCKET FAMILY, ADDRESS & PORT .....
CLIENT CONNECTING ON PORT 8080 TO COMMUNICATE WITH SERVER..
Hello message sent
Welcome to Online Fine system for drivers
Ready for Work....
Enter login: migo
Enter password: 12345
~~~~~
~ 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



```
~~~~~  
~ 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

Client

```
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 ~
~~~~~
```

# 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
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> █
```

# 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