IEU - Software Engineering Department

SE 307 – Concepts of Object-Oriented

Programming

Passo League System

(PLS)

Final Report

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Passo League System

Project Explanation

Passo League System is a console application for selling electronic tickets for league matches.

There are two type of users which are admin and customer. Admin has username and password, each customer has a customer id, username, password, customer name, customer surname, customer age. They both need to Login to access the system. When the system is started, data is automatically loading from text files.
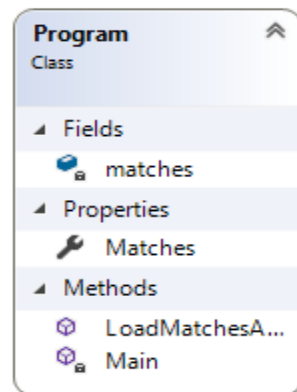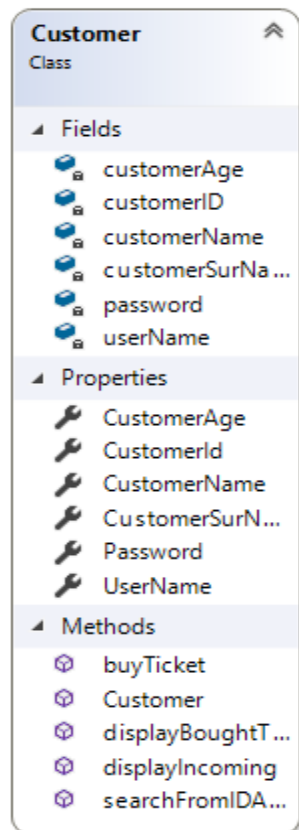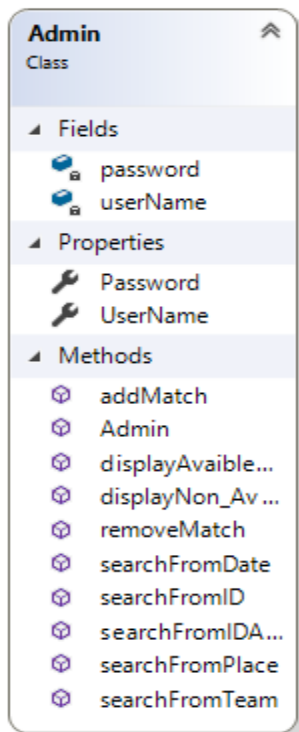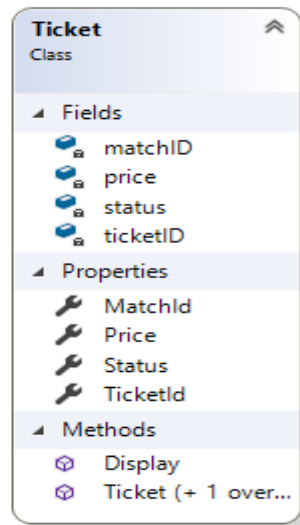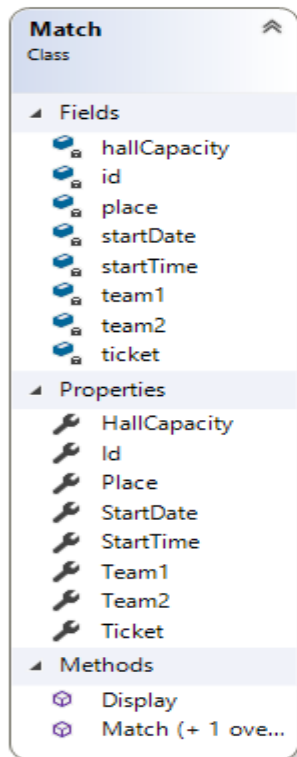
Basically, Admin is able to:

- Add new match information.
- Remove match information.
- Display all matches.
- Search specific matches from the system and display them.
- Display available matches.
- Display non-available matches.
- Search ticket for a match.

Customer is able to:

- Display the incoming matches.
- Search for a ticket to buy.
- Display bought tickets.

System also has Match and Ticket classes in it. Match has id, team1, team2, start date, start time, place, hall capacity and Ticket. Ticket has ticket id, match id, status and price. We store the data in text files. When the system is started, that data is loading to Lists in the program in order to take better advantage of OOP. We implemented all the requirements and operations to the system. As I mentioned text files, we have customerLogs.txt, Matches.txt and Tickets.txt. We use every line as an attribute. For example, in Match.txt every seven row represents a match. In Ticket.txt and customerLogs.txt, every 4 row represents a ticket. Every match is loading to Matches list in Program. Then system using this data to operate required processes.

Class Diagram:

Match
Class

▲ Fields
- 🔒 hallCapacity
- 🔒 id
- 🔒 place
- 🔒 startDate
- 🔒 startTime
- 🔒 team1
- 🔒 team2
- 🔒 ticket

▲ Properties
- 🔧 HallCapacity
- 🔧 Id
- 🔧 Place
- 🔧 StartDate
- 🔧 StartTime
- 🔧 Team1
- 🔧 Team2
- 🔧 Ticket

▲ Methods
- ⬡ Display
- ⬡ Match (+ 1 ove...

Ticket
Class

▲ Fields
- 🔒 matchID
- 🔒 price
- 🔒 status
- 🔒 ticketID

▲ Properties
- 🔧 MatchId
- 🔧 Price
- 🔧 Status
- 🔧 TicketId

▲ Methods
- ⬡ Display
- ⬡ Ticket (+ 1 over...

Admin
Class

▲ Fields
- 🔒 password
- 🔒 userName

▲ Properties
- 🔧 Password
- 🔧 UserName

▲ Methods
- ⬡ addMatch
- ⬡ Admin
- ⬡ displayAvaible...
- ⬡ displayNon_Av...
- ⬡ removeMatch
- ⬡ searchFromDate
- ⬡ searchFromID
- ⬡ searchFromIDA...
- ⬡ searchFromPlace
- ⬡ searchFromTeam

Customer
Class

▲ Fields
- 🔒 customerAge
- 🔒 customerID
- 🔒 customerName
- 🔒 customerSurNa...
- 🔒 password
- 🔒 userName

▲ Properties
- 🔧 CustomerAge
- 🔧 CustomerId
- 🔧 CustomerName
- 🔧 CustomerSurN...
- 🔧 Password
- 🔧 UserName

▲ Methods
- ⬡ buyTicket
- ⬡ Customer
- ⬡ displayBoughtT...
- ⬡ displayIncoming
- ⬡ searchFromIDA...

Program
Class

▲ Fields
- 🔒 matches

▲ Properties
- 🔧 Matches

▲ Methods
- ⬡ LoadMatchesA...
- ⬡ Main

Some Example Outputs:

```
Please Enter your Username:
SilaT
Please Enter your password:
123456
Press 0 for Log-out
Press 1 for Display the incoming matches
Press 2 for Searching for a ticket to buy
Press 3 for Displaying bought tickets
1
Match Info;
Match ID: 202101
Team1: Barcelona
Team2: Real Madrid
Start Date: 12/06/2021
Start Time: 07:00
Place: Spain
Hall Capacity: 1000
Ticket Info;
Ticket ID: 202101
Match ID: 202101
Status: available
Price: 25

Match Info;
Match ID: 202102
Team1: Besiktas
Team2: Fenerbahce
Start Date: 08/04/2021
Start Time: 07:00
Place: Istanbul
Hall Capacity: 500
Ticket Info;
Ticket ID: 202102
Match ID: 202102
Status: non-available
Price: 15
```

```
Press 0 for Log-out
Press 1 for Display the incoming matches
Press 2 for Searching for a ticket to buy
Press 3 for Displaying bought tickets
2
Please Enter Match ID:
202101
Ticket Info;
Ticket ID: 202101
Match ID: 202101
Status: available
Price: 25

Do you want to buy the ticket? (y/n):
y
Press 0 for Log-out
Press 1 for Display the incoming matches
Press 2 for Searching for a ticket to buy
Press 3 for Displaying bought tickets
3
202104
202104
available
40
202105
202105
available
55
202101
202101
available
25
Press 0 for Log-out
Press 1 for Display the incoming matches
Press 2 for Searching for a ticket to buy
Press 3 for Displaying bought tickets
```

```
admin
Please Enter your password:
12345
Press 0 for Log-out
Press 1 for adding new Match Info
Press 2 for removing Match Info
Press 3 for Display Match
Press 4 for search Match
Press 5 for display avaible matches
Press 6 for display non-avaible matches:
Press 7 for search ticket for a match:
1
Enter Match ID:
202107
Enter Team1:
DenizliSpor
Enter Team2:
KarsiyakaSpor
Enter Start Date (MM/dd/yyyy):
06.27.2021
Enter Start Time (HH:mm):
19:00
Enter Place:
Izmir
Enter Hall Capacity:
1500
Enter Ticket ID:
202107
Enter Match ID:
202107
Enter Status:
available
Enter Price:
25
```

```
Press 0 for Log-out
Press 1 for adding new Match Info
Press 2 for removing Match Info
Press 3 for Display Match
Press 4 for search Match
Press 5 for display avaible matches
Press 6 for display non-avaible matches:
Press 7 for search ticket for a match:
5
```

```
Match Info;
Match ID: 202106
Team1: AdanaSpor
Team2: SamsunSpor
Start Date: 06/22/2021
Start Time: 07:00
Place: Adana
Hall Capacity: 800
Ticket Info;
Ticket ID: 202106
Match ID: 202106
Status: available
Price: 50

Match Info;
Match ID: 202107
Team1: DenizliSpor
Team2: KarsiyakaSpor
Start Date: 06/27/2021
Start Time: 19:00
Place: Izmir
Hall Capacity: 1500
Ticket Info;
Ticket ID: 202107
Match ID: 202107
Status: available
Price: 25

Press 0 for Log-out
Press 1 for adding new Match Info
Press 2 for removing Match Info
```

```
Press 0 for Log-out
Press 1 for adding new Match Info
Press 2 for removing Match Info
Press 3 for Display Match
Press 4 for search Match
Press 5 for display avaible matches
Press 6 for display non-avaible matches:
Press 7 for search ticket for a match:
2
```

```
Match Info;
Match ID: 202106
Team1: AdanaSpor
Team2: SamsunSpor
Start Date: 06/22/2021
Start Time: 07:00
Place: Adana
Hall Capacity: 800
Ticket Info;
Ticket ID: 202106
Match ID: 202106
Status: available
Price: 50

Match Info;
Match ID: 202107
Team1: DenizliSpor
Team2: KarsiyakaSpor
Start Date: 06/27/2021
Start Time: 19:00
Place: Izmir
Hall Capacity: 1500
Ticket Info;
Ticket ID: 202107
Match ID: 202107
Status: available
Price: 25

Please enter the match ID:
202107
```

```
Press 0 for Log-out
Press 1 for adding new Match Info
Press 2 for removing Match Info
Press 3 for Display Match
Press 4 for search Match
Press 5 for display avaible matches
Press 6 for display non-avaible matches:
Press 7 for search ticket for a match:
3
```

```
Match Info;
Match ID: 202105
Team1: TrabzonSpor
Team2: GaziantepSpor
Start Date: 08/07/2022
Start Time: 07:00
Place: Trabzon
Hall Capacity: 450
Ticket Info;
Ticket ID: 202105
Match ID: 202105
Status: available
Price: 55

Match Info;
Match ID: 202106
Team1: AdanaSpor
Team2: SamsunSpor
Start Date: 06/22/2021
Start Time: 07:00
Place: Adana
Hall Capacity: 800
Ticket Info;
Ticket ID: 202106
Match ID: 202106
Status: available
Price: 50
```

```
Press 0 for Log-out
Press 1 for adding new Match Info
Press 2 for removing Match Info
Press 3 for Display Match
Press 4 for search Match
Press 5 for display avaible matches
Press 6 for display non-avaible matches:
Press 7 for search ticket for a match:
0
Welcome to Passo League System
Press 0 For Terminate the System
Press 1 For Customer
Press 2 For Admin
0

Process finished with exit code -1.
```