# SOFTWARE DESIGN DESCRIPTION

## MatchMaker

**Department of Computer Engineering** 

**Faculty of Engineering** 

**Istanbul Okan University** 

## Göktürk Ramazan DOĞAN 170212013

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#### 1.INTRODUCTION

## 1.1. Project Name:

MatchMaker.

#### 1.2. Purpose of This Report:

This report contains information about the software design features and developability of the MatchMaker project.

#### 1.3. View of The Report:

Data structure, module structure, administration panel admin interface and user interface designs are presented in this report. It must be used together with the requirements specification report.

## 1.4. Abbreviations and synonyms used:

**Admin:** Administrator.

**Info:** Information. **Int:** User Interface.

UserID: User identification.

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#### 2. DATA DESIGN

#### 1.1. Data Objects and Resultant Data Structures

The entity-relationship diagram of the MatchMaker is depicted in the below figure. The Matchmaker system has two data objects. one of them is the administrator data object and one is the login data object. The login data object contains the username and password information. If the entered data matches the data in the database, the login operation is successful. If it does not match, the login will fail.

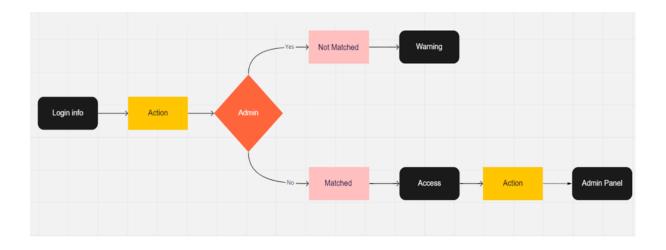


Figure 1 Login Event MatchMaker

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Based on the E-R model, following tables are created. The fields of tables, the type nad primary key. All of them has created by admin manually from the database.

Fields	Туре	Primary Key / Foreign Key	Required
ayarlar			
ID	Int(11)	Primary Key	
baslik	Varchar(160)		V
anahtar	Varchar(255)		V
aciklama	Varchar(255)		V
telefon	Varchar(50)		V
mail	Varchar(100)		V
adres	Varchar(255)		V
fax	Varchar(50)		V
url	Varchar(120)		V

Fields	Туре	Primary Key / Foreign Key	Required
kullanicilar			
ID	Int(9)	Primary key	
adsoyad	Varchar(20)		V
kullanici	Varchar(20)		V
sifre	Varchar(20)		V
mail	Varchar(30)		V
tarih	Date		

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Fields	Туре	Primary Key / Foreign Key	Required
maclar			
ID	Int(11)	Primary key	
tarih	Varchar(55)		$\sqrt{}$
saat	Varchar(55)		V
tesis	Varchar(120)		V
takimakaleci	Varchar(500)		
takimadefans1	Varchar(500)		
takimadefans2	Varchar(500)		
takimadefans3	Varchar(500)		
takimaortasaha1	Varchar(500)		
takimaortasaha2	Varchar(500)		
takimaforvet	Varchar(500)		
takimbkaleci	Varchar(500)		
takimbdefans1	Varchar(500)		
takimbdefans2	Varchar(500)		
takimbdefans3	Varchar(500)		
takimbortasaha1	Varchar(500)		
takimbortasaha2	Varchar(500)		
takimbforvet	Varchar(500)		
takimakalecipuan	Int(11)		
takimadefans1puan	Int(11)		

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takimadefans2puan	Int(11)	
takimadefans3puan	Int(11)	
takimaortasaha1puan	Int(11)	
takimaortasaha2puan	Int(11)	
takimaforvetpuan	Int(11)	
takimbkalecipuan	Int(11)	
takimbdefans1puan	Int(11)	
takimbdefans2puan	Int(11)	
takimbdefans3puan	Int(11)	
takimbortasaha1puan	Int(11)	
takimbortasaha2puan	Int(11)	
takimbforvetpuan	Int(11)	
takimaskor	Int(55)	
takimbskor	Int(55)	

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Fields	Туре	Primary Key / Foreign Key	Required
mevki			
ID	Int(11)	Primary key	
mevki	Varchar(120)		V
url	Varchar(500)		V

Fields	Туре	Primary Key / Foreign Key	Required
mevki			
ID	Int(11)	Primary key	
isim	Varchar(255)		V
soyisim	Varchar(255)		V
mevki	Varchar(255)		V
telefonnumarasi	Varchar(255)		V
ayak	Varchar(255)		V
resim	Varchar(500)		V
dogumtarihi	Varchar(255)		V
mevkiid	Int(11)		V

Fields	Туре	Primary Key / Foreign Key	Required
puan			
ID	Int(11)	Primary key	
mevki	Varchar(120)		V
url	Varchar(500)		V

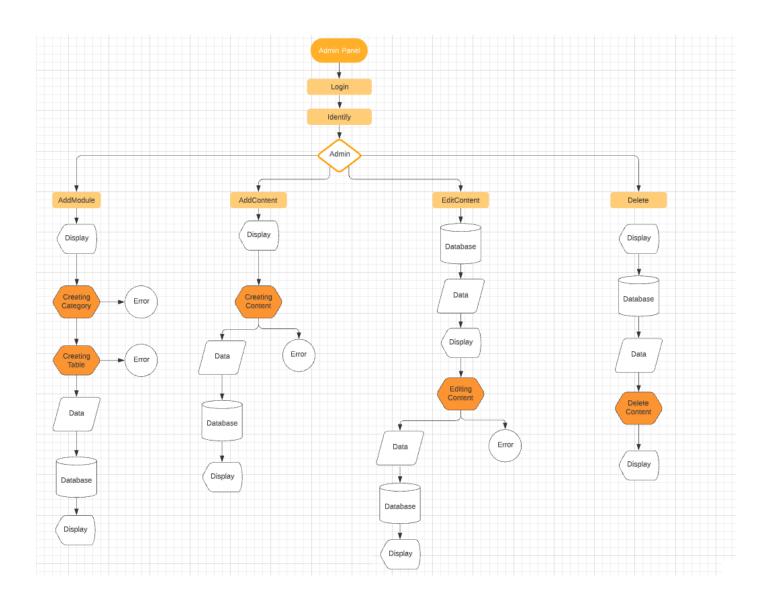
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Fields	Туре	Primary Key / Foreign Key	Required
tesisler			
ID	Int(11)	Primary key	
tesisadi	Varchar(255)		V
sahasayisi	Varchar(255)		V
telefon	Varchar(30)		V
sahatipi	Varchar(20)		V
resim	Varchar(255)		V
adres	Varchar(255)		V
konum	Varchar(500)		V

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## 3. MODULE STRUCTURE(FOR ADMIN PANEL)

## 3.1. Module Map:



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#### **3.2. Login:**

Function: Program entry, gets name and password of the user and passes to Identify module.

Called by : Main program entry, called firstly after running the AdminPanel.

Calls : Identify module.

Inputs : Name and password information from user.

Outputs : Name and password information from user passes to

Identify module.

#### Algorithm:

Display Login Page (see Int.1.) shown in part 5-interface design.

Get name and password of user as strings from login form at the page of Login.

Call Identify module.

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#### 3.3. Identify:

Function: Gets name and password of the user (see Int.1.) shown in part 5-interface design. Checks their validity from Admin table from database.

Called by : Login Module.

Calls : Error Module, Admin Panel Homepage.

Inputs : Username and password information.

Outputs : If login is success Refreshes the page and goes to Main

page of Admin Panel (see Int. 2.). If it is not, displays (see

Int. 6-1-1. or Int. 6-1-2.) shown in part 5-interface design.

#### Algorithm:

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#### 3.4. Addplayers:

Function: This module saves the player information entered by the administrator on the relevant form page (see Int. 3-2.) in the 'oyuncular' table. shown in part 5-interface design.

Called by : Identify module.

Calls : Error Module.

Inputs : Information of the player to be created.

Outputs: If the add operation is successful displays (see Int. 6-2-1.) and switches to players-list (see Int. 3-1.). But if the add operation is not successful displays (see Int. 6-3.) shown in part 5-interface design.

#### Algorithm:

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#### 3.5. Addfacilities:

Function: This module by taking the information of the facility to be entered from the form on the page (see Int. 4-2.) by admin. records in the corresponding columns in the 'tesisler' table.

Called by: Identify module.

Calls : Editfacilities Module, Delete Module, Error Module.

Inputs : Information of the faicility to be created.

Outputs: If the save operation is successful display (see Int. 6-2-1.) and switches to facility-list page (see Int. 4-1.) in part-5.

But if the save is not successful displays (see Int. 6-3.) in part-5.

Algorithm: Display Addfacility page (see Int. 4-2.) in part-5.

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#### 3.6. Addmatches:

Function: This module saves the match data received by the admin from the form inputs on the match add page to the 'maclar' table.

Called by : Identify module.

Calls : Editmatch Module, Delete Match Module, Error Module, Addteam Module, Vote Module.

Inputs : Information of the match to be created.

Outputs: If the save operation is successful display (see Int. 6-2-1.) and switches to match-list page (see Int. 5-1.) in part-5. But if the save is not successful displays (see Int. 6-3.) in part-5.

Algorithm: Display Addmatches page (see Int. 5-2.) in part-5.

```
include(".././getdata.php");
include ".././DB.php";
$db=new DB();
if(isset($_POST["submit"])){

$params=array($_POST ['tarih'],$_POST ['saat'],$_POST ['tesis']);
if($db->insert('maclar', 'tarih,saat,tesis', $params, 3))
{
    ?><div class="alert alert-success">[$]leminiz Ba\{\}ari | fle Kaydedildi.</div>
    <?php ?>
    <meta http-equiv="refresh" content="2;url=maclar-liste.php">
    <?php
}
</pre>
```

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#### 3.7. Editplayers:

Function: It allows editing the data of the players added to the related table with the Addplayers algorithm.

Called by : Identify Module, Addplayers Module.

Calls : Error Module, Delete Module.

Inputs : Replacing the data of the relevant player with the data to

be updated.

Outputs : It displays (see Int. 6-2-1.) or (see Int. 6-3.) in part-5.

Algorithm: After the editing process is finished displays (see Int. 6-2-1.) if the process is success. But if it is not displays (see Int. 6-3.) in part-5.

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#### 3.8. Editfacilities:

Function: It allows editing the data of the facility added to the related table with the Addfacilities algorithm.

Called by : Identify Module, Addfacilities Module.

Calls : Error Module, Delete Module.

Inputs : Replacing the data of the relevant facility with the data to be updated.

Outputs: It displays (see Int. 6-2-1.) or (see Int. 6-3.) in part-5.

Algorithm: After the editing process is finished displays (see Int. 6-2-1.) if the process is success. But if it is not displays (see Int. 6-3.) in part-5.

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#### 3.9. Addteam:

Function: This module gives the authority to add the players as teams to the positions where they will be assigned by the manager and adds this data to the columns of the relevant match in the 'maclar' table.

Called by : Addmatches Module.

Calls : Error Module, Delete Module, Vote Module.

Inputs : Selection of players from the relevant select inputs by the

administrator

Outputs: It displays (see Int. 6-2-1.) or (see Int. 6-3.) in part-5.

Algorithm: After the adding process is finished displays (see Int. 6-2-1.) if the process is success. But if it is not displays (see Int. 6-3.) in part-5.

```
if(isset($_POST["guncelle"])) {
    $id= $_POST["id"];
    $update=$vt-> prepare("UPDATE maclar set takimakaleci = :takimakaleci, takimadefans1 = :takimadefans1,
    takimadefans2 = :takimadefans2, takimadefans3 = :takimadefans3, takimaortasaha1 = :takimaortasaha1,
    takimaortasaha2 = :takimaortasaha2, takimaforvet = :takimaforvet where id = :id");
    $maclar = $update -> execute(array(
    'takimakaleci' => $_POST["takimakaleci"],
    'takimadefans1' => $_POST["takimadefans1"],
    'takimadefans2' => $_POST["takimadefans2"],
    'takimaortasaha1' => $_POST["takimaortasaha1"],
    'takimaortasaha1' => $_POST["takimaortasaha1"],
    'takimaortasaha2' => $_POST["takimaortasaha2"],
    'takimaforvet' => $_POST["takimaforvet"],
    'id' => $_GET["id"]
    ));

    /*cdiv class="alert alert-success">[s]eminiz Basari fle Kaydedildi.
//div>/?php

/*cmeta http-equiv="refresh" content="2;url=maclar-liste.php">
```

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#### 3.10. Vote:

Function: This module records the score entered by the administrator and the performance information of the players out of 5 in the relevant columns in the 'maclar' table.

Called by : Addmatches Module, Addteam Module.

Calls : Error Module, Delete Module.

Inputs : The score produced by the teams entered by the manager and the performance score shown by the players.

Outputs: It displays (see Int. 6-2-1.) or (see Int. 6-3.) in part-5.

Algorithm: After the voting process is finished displays (see Int. 6-2-1.) if the process is success. But if it is not displays (see Int. 6-3.) in part-5.

```
if(isset($_POST["guncelle"])) {
    $id= $_POST["id"];
    $update=$vt-> prepare("UPDATE maclar set takimakalecipuan = :takimakalecipuan, takimadefans1puan, takimadefans2puan : :takimadefans2puan, takimadefans2puan, takimadefans2puan, takimadefans2puan, takimbdefans2puan : :takimadefans2puan, takimbdefans2puan : :takimbdefans2puan, takimbdefans2puan = :takimbdefans2puan, takimbdefans2puan, takimbdefans2p
```

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#### **3.11. Delete:**

Function : Deletes all data of the related content and itself from the related table.

Called by : Addplayers Module, Addfacilities Module, Addmatches Module.

Calls : None

Input : Admin click.

Outputs : None

#### Algorithm:

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#### 3.12. Error:

Function : Displays a warning when algorithm return false value.

Called by : Identify module, Addplayers Module, Addfacilities

Module, Addmatches Module, Editplayers Module,

Editfacilities Module, Addteam Module, Vote Module.

Calls : none

Input : Admin click.

Outputs : Error Messages which created by admin.

Algorithm: (see Int.6-1-1.), (see Int.6-1-2.), (see Int.6-1-3.).

```
if($_SAMPLEMETHOD){

    $sampleparameter=$DataBaseClass->SampleFunction();
    if($sampleparameter!=false){
        echo '<div class="alert alert-success"> Success Message .</div>';
        ?>
    <meta http-equiv="refresh" content="2;url=<?=SITE?>">
        <?php
    }
        else{
            echo '<div class="alert alert-success">Error Message</div>';
        }
    }
}
```

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## **5.INTERFACE DESIGN**

#### **ADMIN PANEL**

## Int. 1. Login Page.

Yönetim(	Sirişi
Giriş Yapmak için bilgile	erinizi Giriniz
Kullanıcı Adı	
Şifre	<u></u>
	Giriş

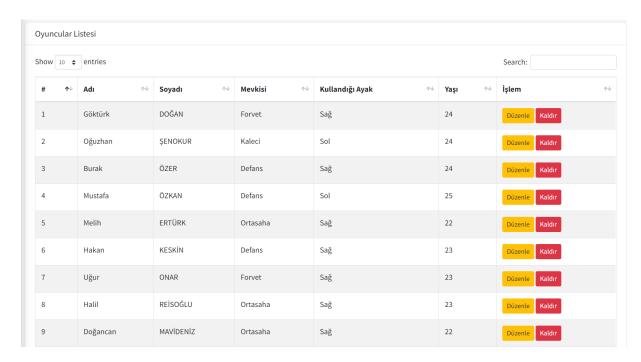
## Int. 2. Default HomePage.

YÖNETİM PANELİ

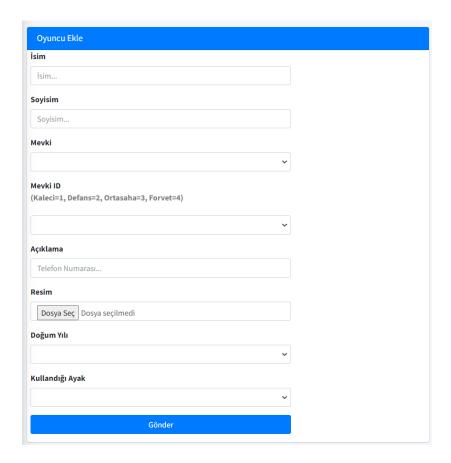


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#### Int. 3-1. PlayersList Page.

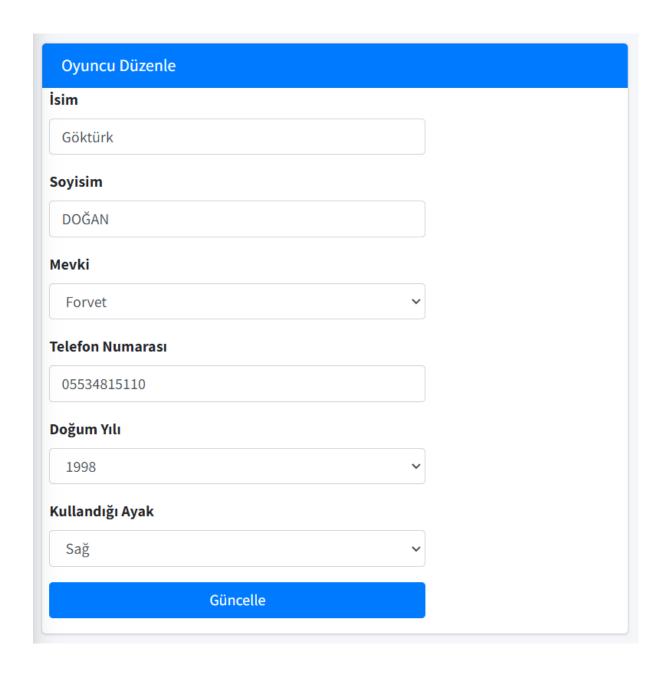


## Int. 3-2. Addplayers Page.



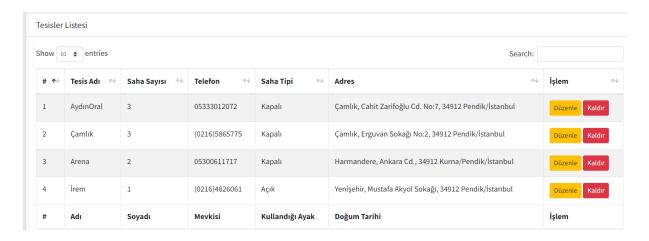
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Int. 3-3. Player-Edit Page.

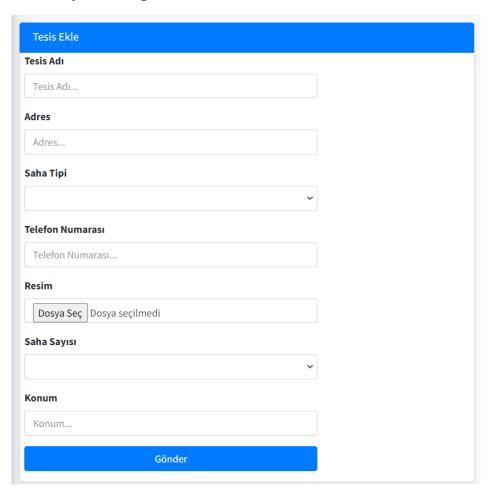


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#### Int. 4-1. Facilities-List Page.

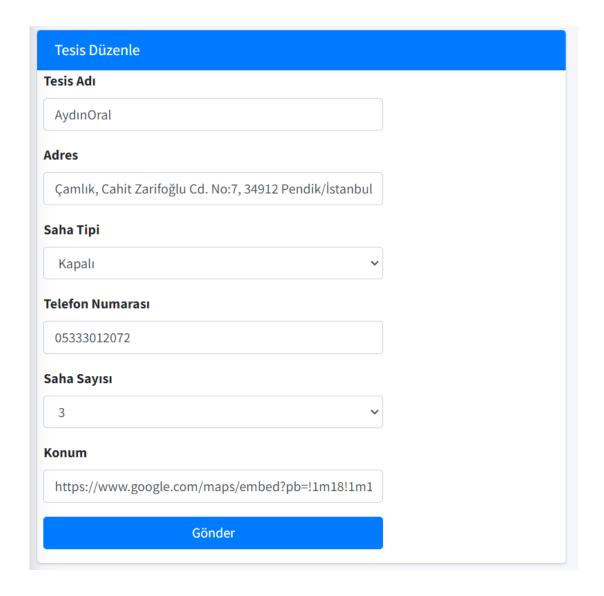


## Int. 4-2. Facilityadd Page.



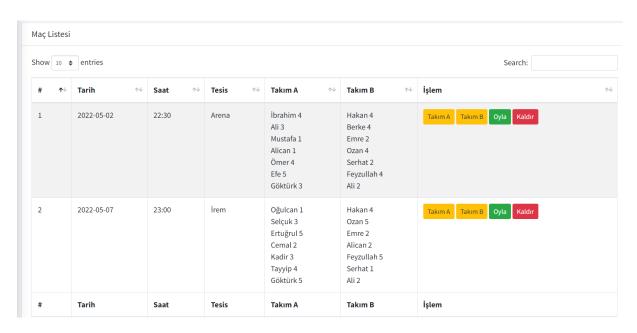
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## Int. 4-3. Facility-edit Page.

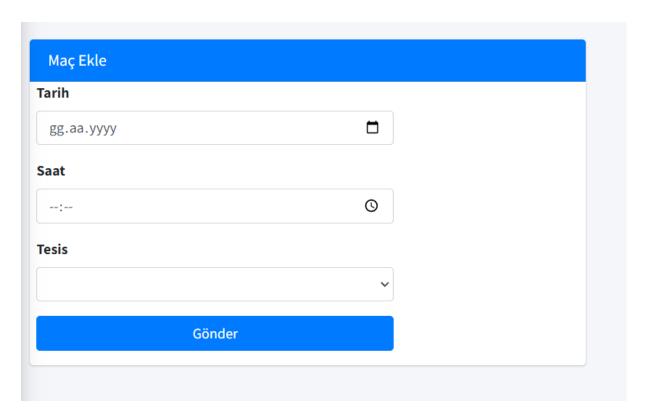


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#### Int. 5-1. Matches-list Page.



## Int. 5-2. Addmatch Page.



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Int. 5-3. Addteam Page.



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Int. 5-4. Vote Page.



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#### Int. 6-1-1. Error.

Boş Bıraktığınız Yerleri Doldurunuz.

#### Int. 6-1-2. Error.

Yanlış Kullanıcı Adı veya Şifre.

#### Int. 6-1-3. Error.

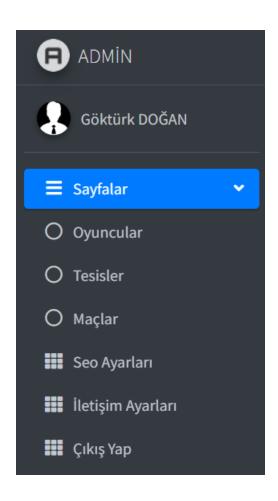
İşleminiz Kaydedilirken Sorun Oluştu.

#### Int. 6-2-1. Success.

İşleminiz Başarı İle Kaydedilmiştir.

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#### Int. 7. Menu.



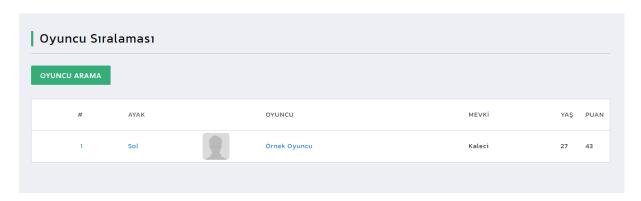
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## **USER INTERFACE**

## Int. 8. HomePage.

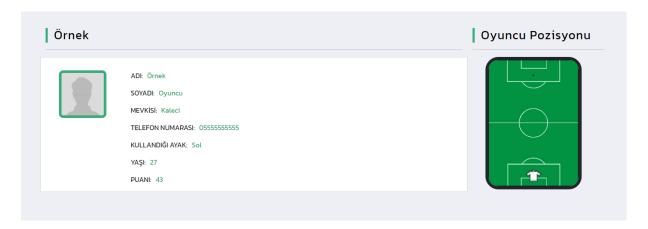
BIREYSEL VE EKİP HALİNDE KULLANABİLECEĞİNİZ BİR SİSTEM OLAN MATCHMAKER SİSTEMİ. OYUNCULARIN	О	0	
ILETIŞİM BİLĞİLERİNİ VE KATILDIKLARI MAÇLARDA ELDE ETTİKLERİ İSTATİSTİKLERİ BİR ARAYA GETİREREK, OYUNCULAR ARASINDA BİR SIRALAMA SİSTEMİ OLUSTURMAKTADIR. BU SAYEDE	OYUNCULAR	YAPILAN MAÇLAR	
GELECEKTE ORGANIZE EDECEK OLDUĞUNUZ MAÇLARIN REKABET SEVİYESİNİ ARTTIRIP DAHA KEYİFLİ VE VERİMLİ MÜSABAKALAR DÜZENLEMENİZE, AYNI ZAMANDA HİÇBİR	О	0	
ZAMAN EKSİK OYUNCU SIKINTISI YAŞAMAMANIZA YARDIMCI OLUYOR.	ATILAN GOLLER	TESISLER	
En Beğenilenler		OYUNCU ARA	
EN BEĞENİLEN OYUNCULAR		APILACAK MAÇLAR	

## Int. 9. Players Page.

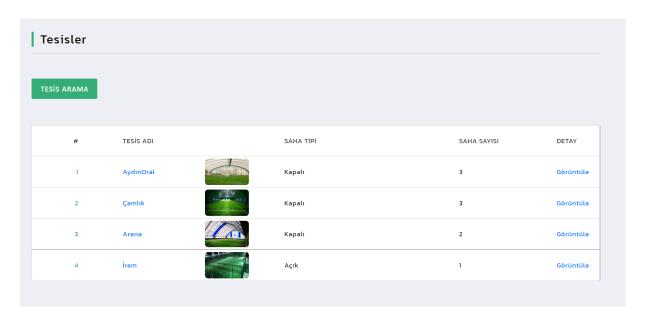


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#### Int. 9-1. Player Detail Page.



#### Int. 10-1 Facilities Page.

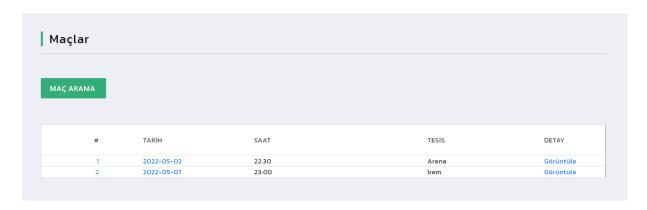


## Int. 10-2 Facility-Detail Page.

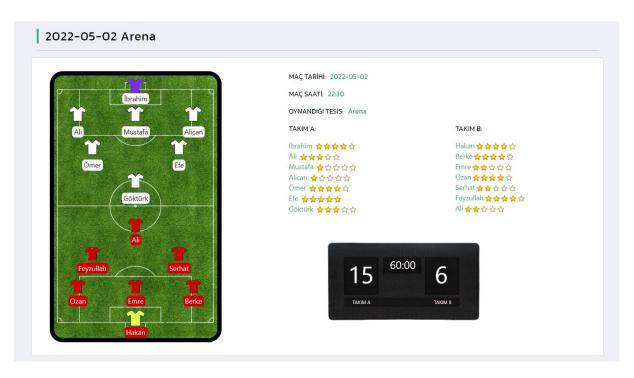


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#### Int. 11-1 Matches Page.



## Int. 11-2 Match-Detail Page.

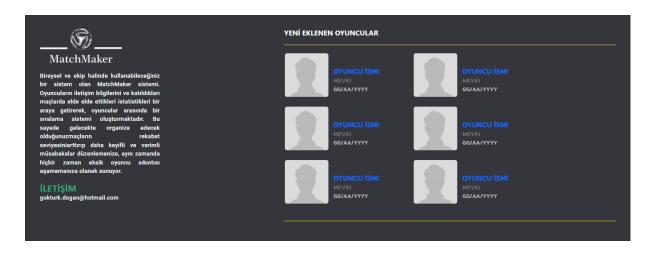


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#### Int. 12 Menu.



#### Int. 13 Footer.



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## 6. RECOMMENDATIONS

The project requires a PhpMyadmin database structure to be formed manually for the software.

Use of Php prgoramming language may be beneficial for the ease of implementation.

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