



CMPE 321

Assignment 3

Project Management System

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1. INTRODUCTION

In this assignment, we are expected to implement a project management application with a web-based user interface. I used PHP programming language and the relational database system MySQL.

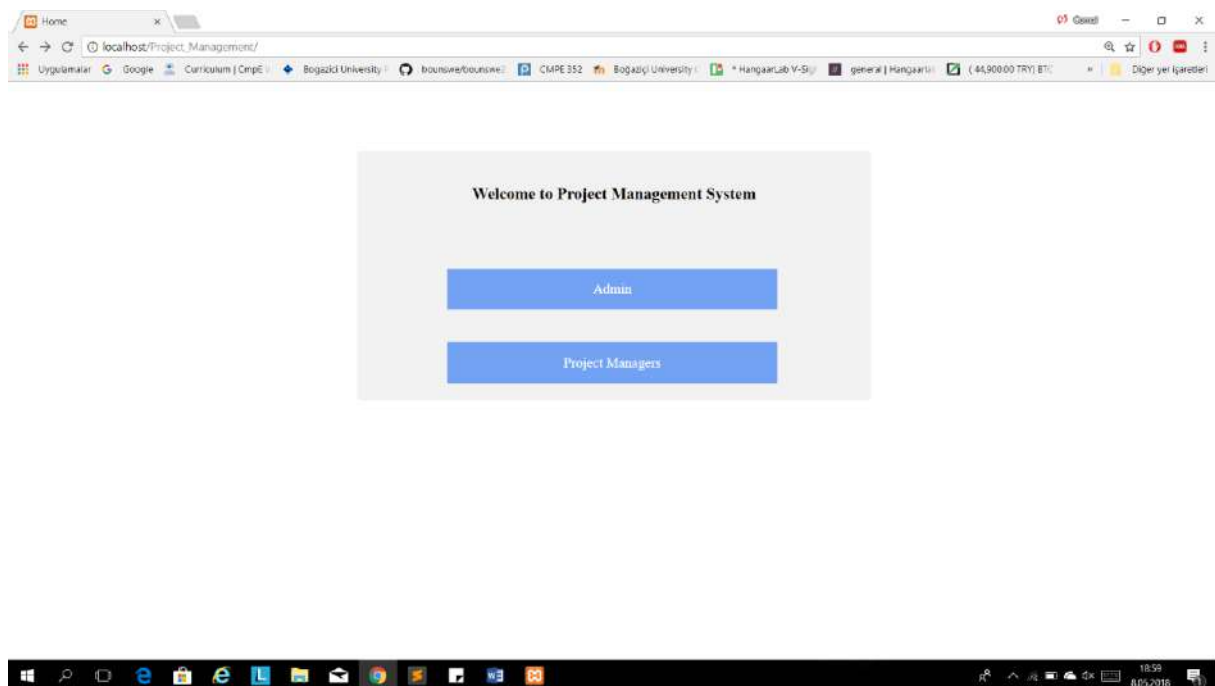
There are 2 types of users in the system:

1. Administrators
2. Project Managers

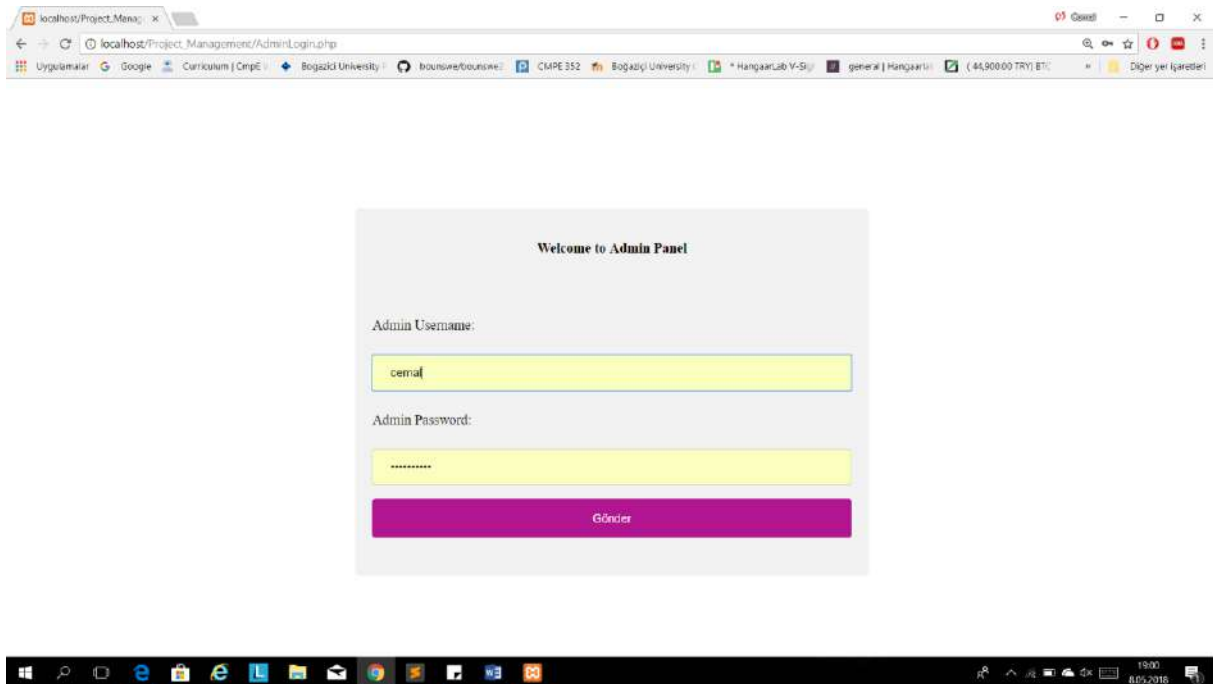
A simple flow of the system as follows: Administrators define a project and assign it to one or more project. Project Managers create tasks to the project that he/she is assigned to manage and assigns the tasks to the employees.

2. INTERFACE

Main Menu

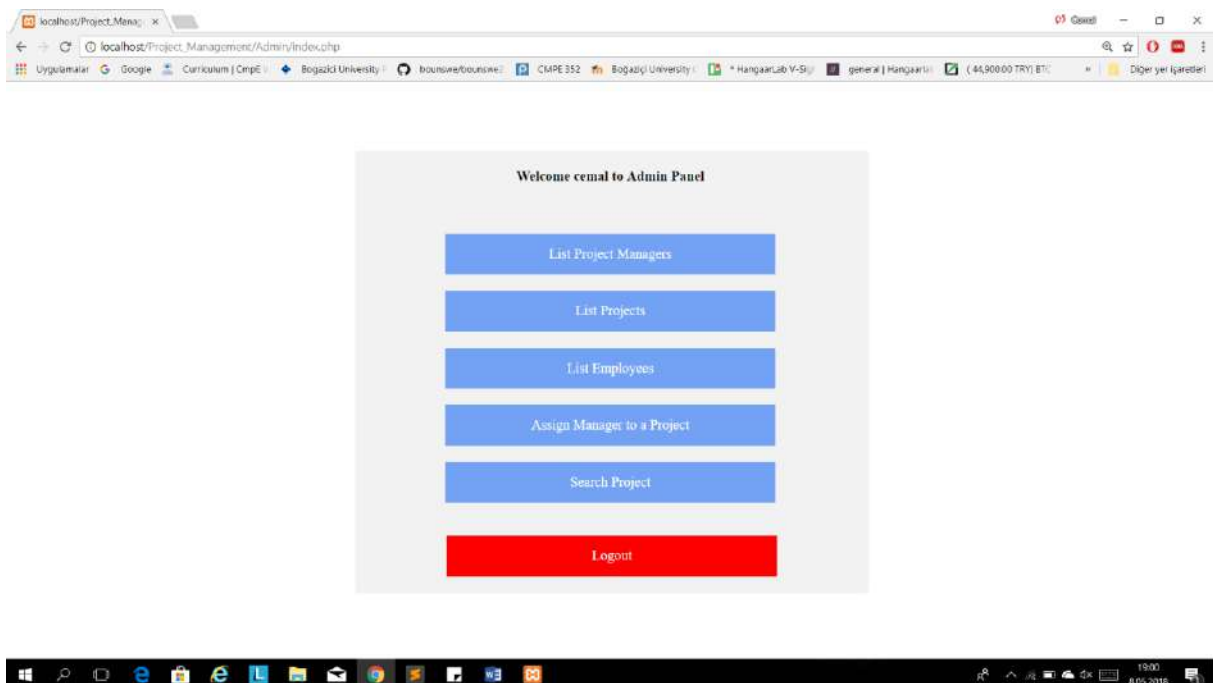


Login



1.Admin Interface

1.1. Admin Menu



1.2. List Project Managers

Project Managers

localhost/Project_Management/Admin/ListProjectManagers.php

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List of Project Managers

Operations	User ID	Name	Surname	Password	Email
✕ ✎	1	Cemal	Aytekın	123456	cemal.aytekın@boun.edu.tr
✕ ✎	2	Berke	Esmer	berke123	berke@gmail.com
✕ ✎	3	John	Wick	j1q2w3*_wick	john_wick@yahoo.com
✕ ✎	4	Deniz	Demir	8912456	demirdeniz@hotmail.com
✕ ✎	5	Samuel	Deny	2287sam	samsam@gmail.com

[+ Add new Project Manager](#)

1.3. List Projects

Projects

localhost/Project_Management/Admin/ListProjects.php

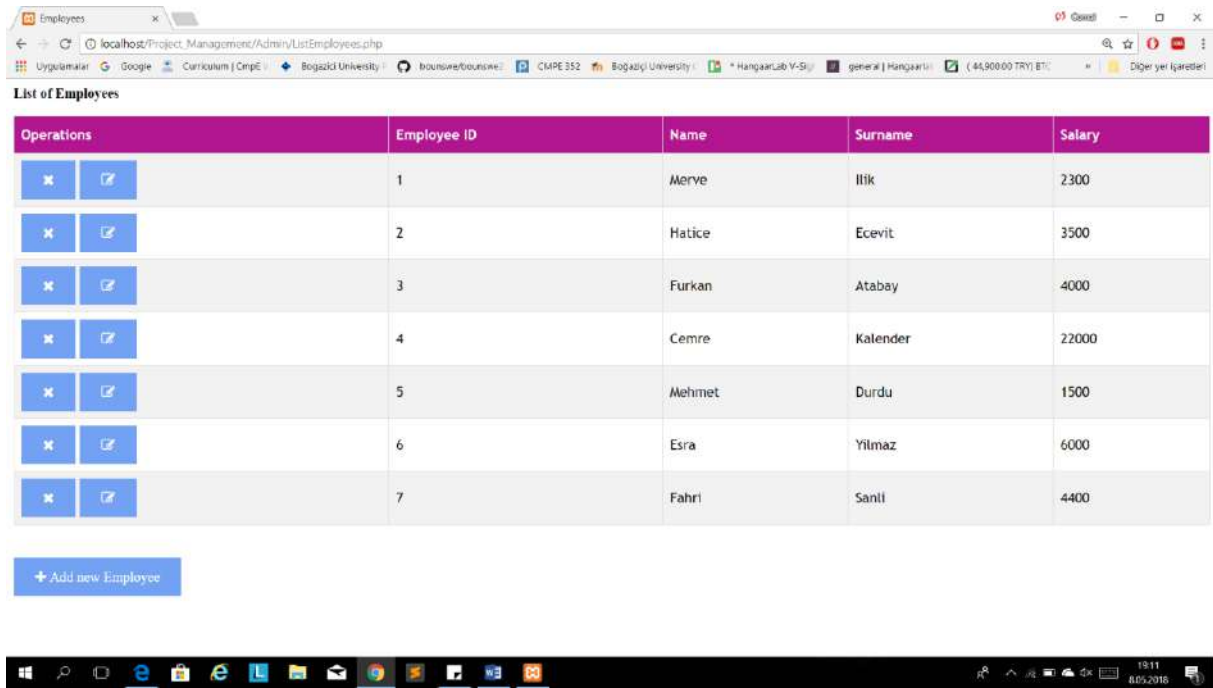
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List of Projects

Operations	Project ID	Name	Start Date	Due Date	Status
✕ ✎	1	Mentornity	2018-05-08	2018-07-08	incompleted
✕ ✎	2	Smart Glass	2018-04-19	2018-09-21	incompleted
✕ ✎	3	3. Airport	2017-03-19	2018-09-20	incompleted

[+ Add new Project](#)

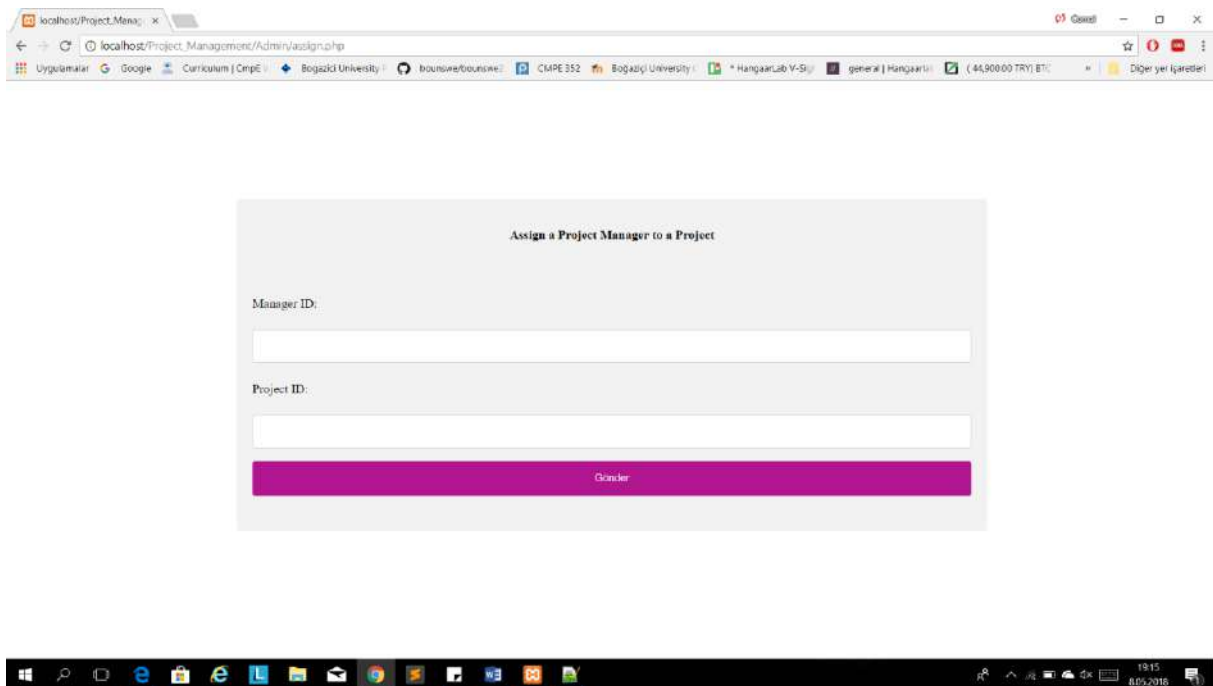
1.4. List Employees



Operations	Employee ID	Name	Surname	Salary
 	1	Merve	Ilık	2300
 	2	Hatice	Ecevit	3500
 	3	Furkan	Atabay	4000
 	4	Cemre	Kalender	22000
 	5	Mehmet	Durdu	1500
 	6	Esra	Yilmaz	6000
 	7	Fahri	Sanlı	4400

[+ Add new Employee](#)

1.6. Assign Manager to A Project



Assign a Project Manager to a Project

Manager ID:

Project ID:

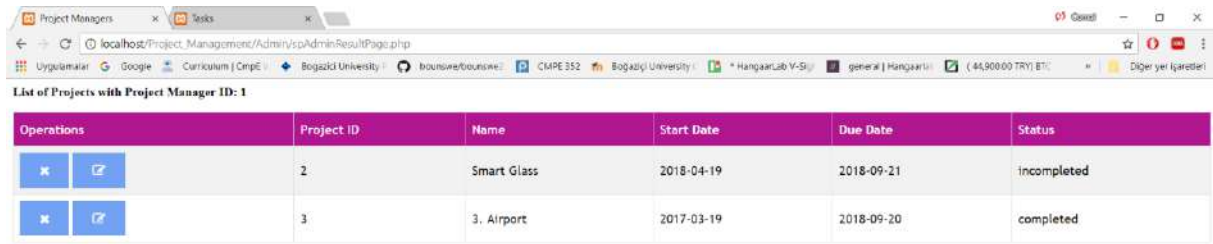
[Gönder](#)

1.7. Delete a manager from a project





1.8. Search for a manager (SP PART)

The screenshot shows a web browser window with the address bar displaying 'localhost/Project_Management/Admin/spadmin.php'. The page content is a search form titled 'Search Projects By Project Manager ID'. Below the title, there is a hint 'Type ALL for all projects'. The form includes a label 'Manager ID:', an input field, and a purple button labeled 'Gönder'.

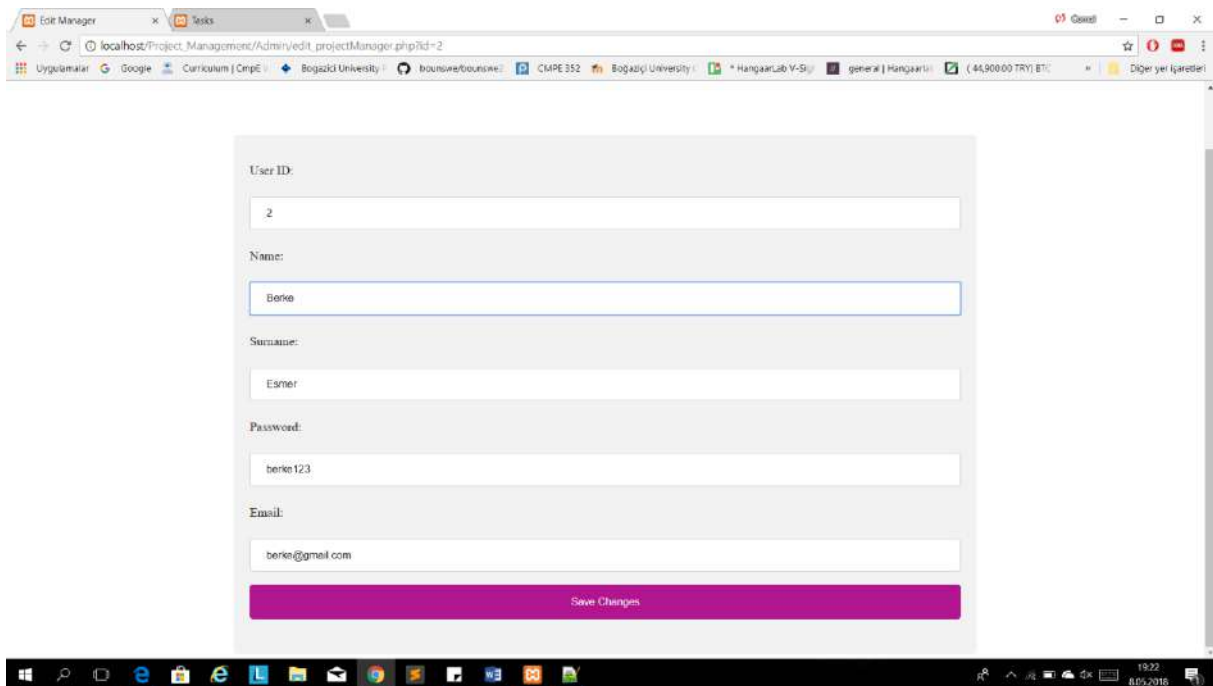
1.8. search result: (SP PART)



List of Projects with Project Manager ID: 1

Operations	Project ID	Name	Start Date	Due Date	Status
 	2	Smart Glass	2018-04-19	2018-09-21	incompleted
 	3	3. Airport	2017-03-19	2018-09-20	completed

1.9. Edit



User ID:

Name:

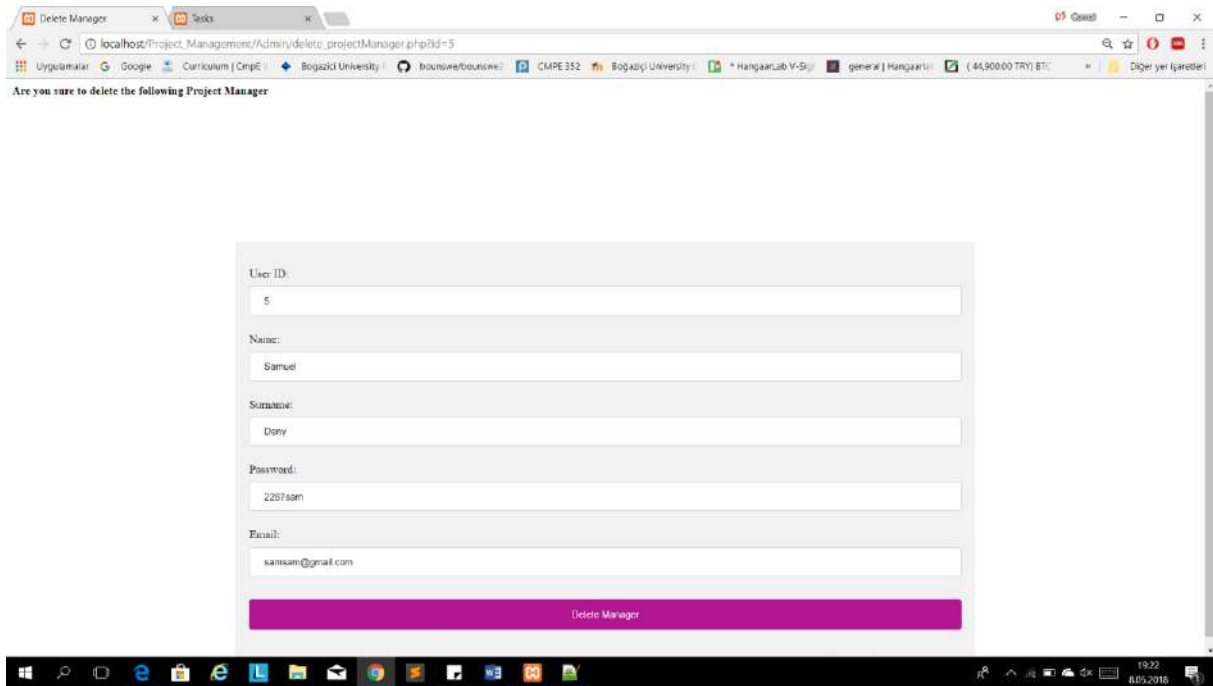
Surname:

Password:

Email:

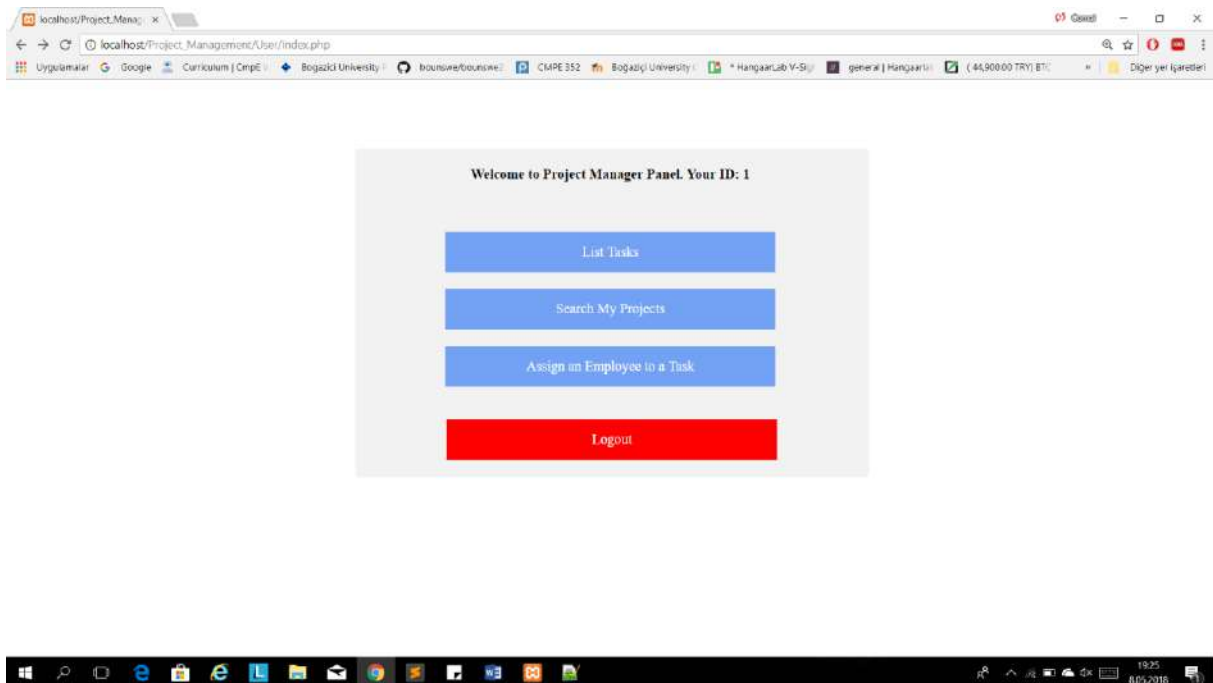
Save Changes

1.10. Delete

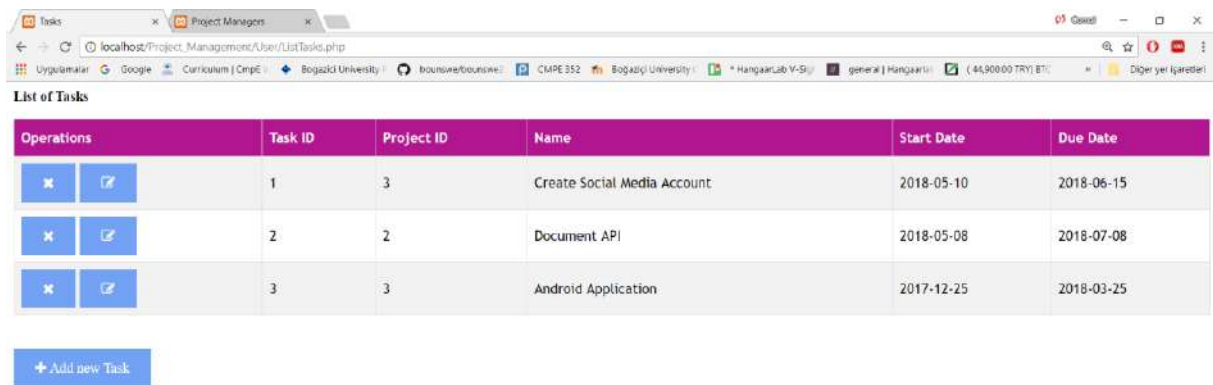








2. Project Manager Interface

2.1 Project Manager Menu



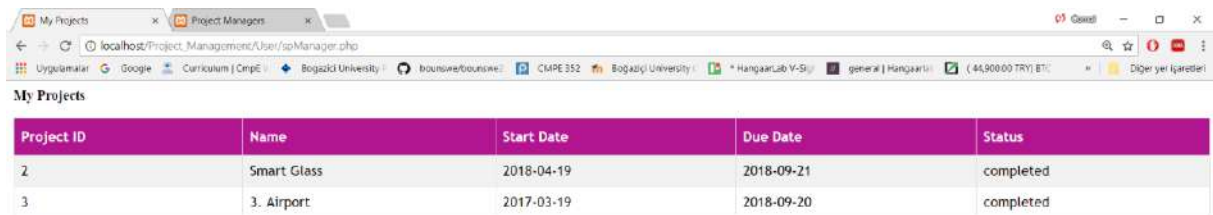
2.2. List Tasks



Operations	Task ID	Project ID	Name	Start Date	Due Date
 	1	3	Create Social Media Account	2018-05-10	2018-06-15
 	2	2	Document API	2018-05-08	2018-07-08
 	3	3	Android Application	2017-12-25	2018-03-25

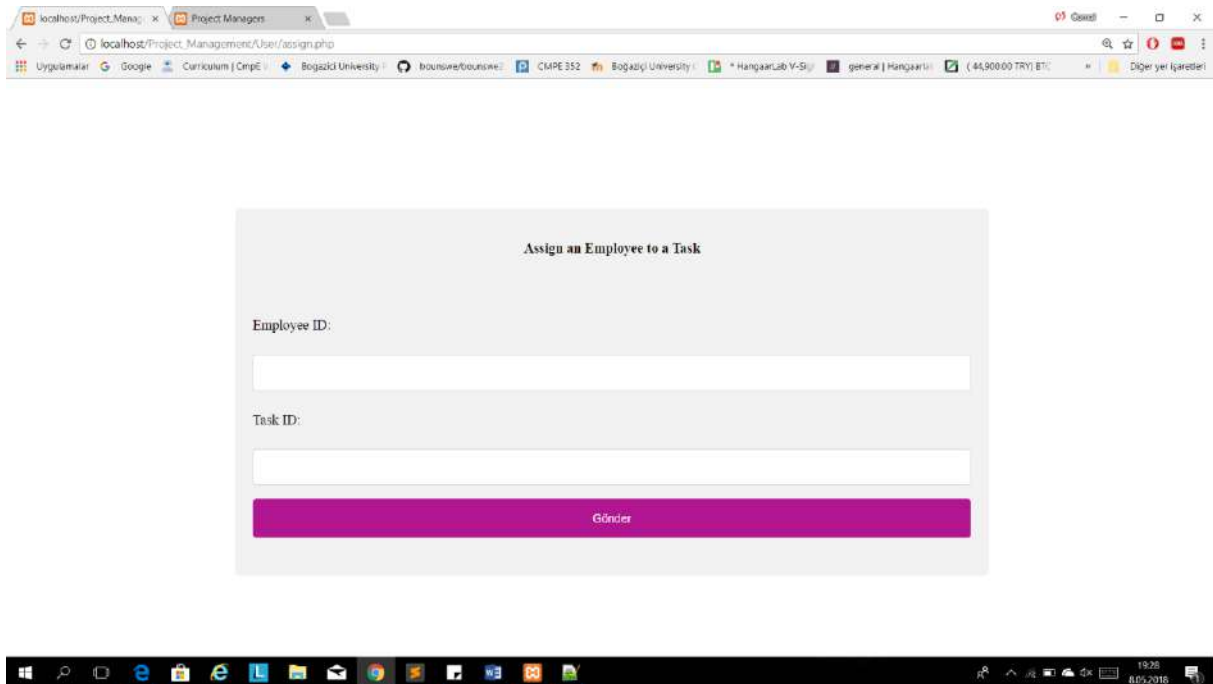
+ Add new Task

2.3. Search my Projects (SP PART)



Project ID	Name	Start Date	Due Date	Status
2	Smart Glass	2018-04-19	2018-09-21	completed
3	3. Airport	2017-03-19	2018-09-20	completed

2.4. Assign an Employee to a Task



The screenshot shows a web browser window with the address bar displaying `localhost/Project_Management/User/assign.php`. The page title is "Assign an Employee to a Task". The form contains two input fields: "Employee ID:" and "Task ID:". Below these fields is a purple button labeled "Gönder". The browser's taskbar at the bottom shows various application icons and the system clock indicating 19:28 on 8/5/2018.

2.4. Assign an Employee to a Task (Trigger Part)



The screenshot shows a web browser window with the address bar displaying `localhost/Project_Management/User/assign_result.php`. The browser's taskbar at the bottom shows various application icons and the system clock indicating 20:30 on 8/5/2018.

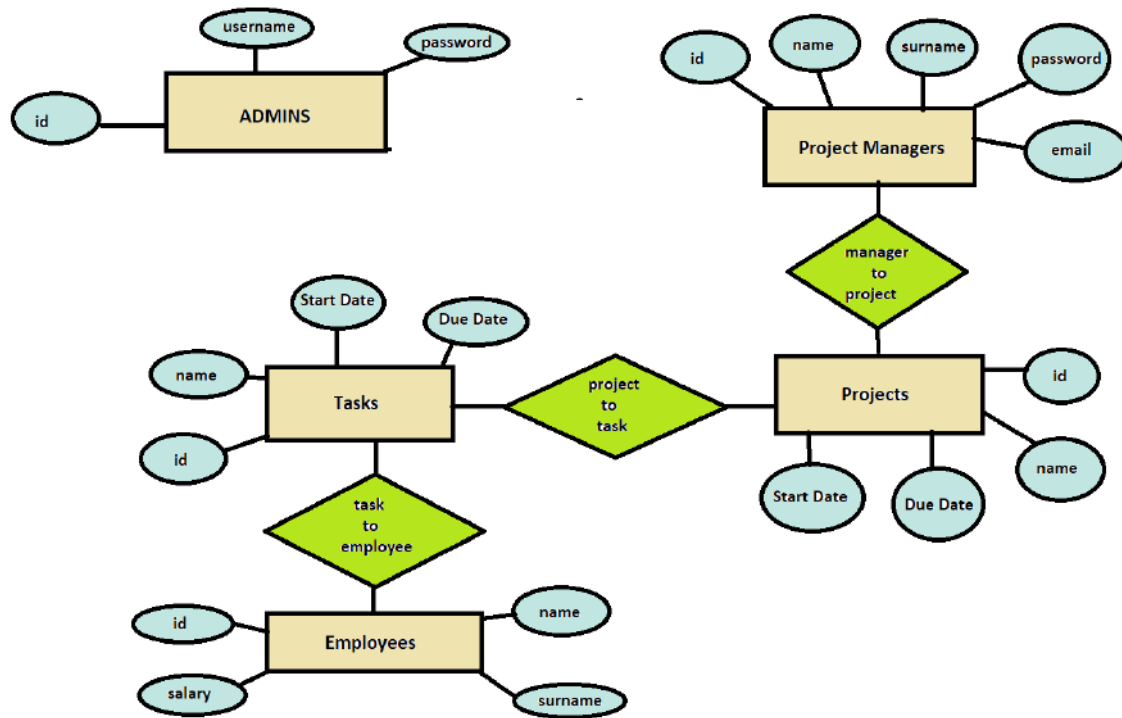
UUUUPS! Cannot assign more than one task to an employee for the same time interval!

[Go Back](#)



The screenshot shows a portion of a Windows taskbar with various application icons and the system clock indicating 20:30 on 8/5/2018.

3. ER DIAGRAM



4. Stored Procedure

1. Completed Projects (ADMIN)

```
CREATE PROCEDURE 'Admin_completed_projects'(IN pid VARCHAR(10))
    BEGIN
        IF pid = "ALL" THEN
            SELECT * FROM Projects Where ProjectID IN (
                SELECT ProjectID FROM projecttotask WHERE TaskID IN (
                    SELECT TaskID FROM Tasks WHERE Tasks.DueDate<Projects.DueDate
                )
            );
        ELSE
            SELECT * FROM Projects Where ProjectID IN (
                SELECT ProjectID FROM projecttotask WHERE TaskID IN (
                    SELECT TaskID FROM Tasks WHERE Tasks.DueDate<Projects.DueDate
                ) AND ProjectID IN (SELECT ProjectID FROM managertoproject WHERE ManagerID=pid)
            );
        END IF;
    END;
```

2. Incompleted Projects (ADMIN)

```
CREATE PROCEDURE 'Admin_incompleted_projects'(IN pid VARCHAR(10))
    BEGIN
        IF pid = "ALL" THEN
            SELECT * FROM Projects Where ProjectID IN (
                SELECT ProjectID FROM projecttotask WHERE TaskID IN (
                    SELECT TaskID FROM Tasks WHERE Tasks.DueDate>Projects.DueDate
                )
            );
        ELSE
            SELECT * FROM Projects Where ProjectID IN (
                SELECT ProjectID FROM projecttotask WHERE TaskID IN (
                    SELECT TaskID FROM Tasks WHERE Tasks.DueDate>Projects.DueDate
                ) AND ProjectID IN (SELECT ProjectID FROM managertoproject WHERE ManagerID=pid)
            );
        END IF;
    END;
```

3. Completed Projects (PROJECT MANAGER)

```
CREATE PROCEDURE 'MANAGER_completed_projects'()  
  
    BEGIN  
  
        SELECT * FROM Projects Where ProjectID IN (  
        SELECT ProjectID FROM projecttotask WHERE TaskID IN (  
            SELECT TaskID FROM Tasks WHERE Tasks.DueDate<Projects.DueDate  
        ) AND ProjectID IN (SELECT ProjectID FROM managertoproject WHERE ManagerID=managerID)  
        );  
  
    END;
```

4. Incompleted Projects (PROJECT MANAGER)

```
CREATE PROCEDURE 'MANAGER_incompleted_projects'()  
  
    BEGIN  
  
        SELECT * FROM Projects Where ProjectID IN (  
        SELECT ProjectID FROM projecttotask WHERE TaskID IN (  
            SELECT TaskID FROM Tasks WHERE Tasks.DueDate>Projects.DueDate  
        ) AND ProjectID IN (SELECT ProjectID FROM managertoproject WHERE ManagerID=managerID)  
        );  
  
    END;
```

5. TRIGGER

I coded trigger part in project properly.

1 . Assign automatically

```
CREATE PROCEDURE 'assignManager'(IN p_id VARCHAR(10))  
  
    BEGIN  
  
        INSERT INTO managertoproject(ManagerID, ProjectID)  
        VALUES(  
            SELECT ManagerID FROM managertoproject GROUP BY ManagerID ORDER BY COUNT(ProjectID)  
            ASC LIMIT 1, p_id  
        )  
  
    END;
```

2. Delete task assignment on employee

```
CREATE PROCEDURE 'deleteAllTasks'(IN e_ID VARCHAR(10))  
  
    BEGIN  
  
        DELETE FROM tasktoemployee WHERE EmployeeID=e_ID  
  
    END;
```

6. CONCLUSION & ASSESSMENT

In this project, I experienced how to use SQL queries and learned PHP. It was great chance to understand how they work together. I also improve my web skill. Frontend was the fun part of the project especially. I encountered with lots of problem, and I tried to find best practices every time in backend. Especially the SP part and Trigger parts are hard but I handled them and have done everything in the project except the bonus part!