

**Headcount**

**Allocation**

**Project**

Application Requirements Document

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Version: 1.4

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Chapter 1

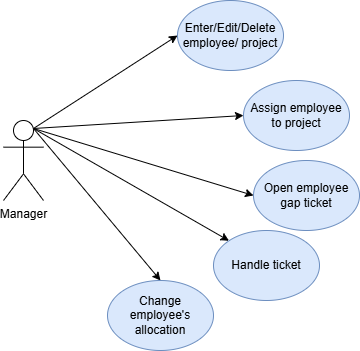
Use Cases

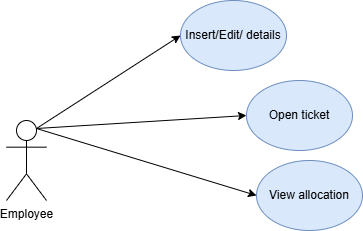
# User profile:

The system users are project managers / human resource managers. Technological skills: good knowledge of project management tools. Works in a mid-to-large company with multiple on-going projects and employees (even projects and employees around the world).

In some of those companies' employees work on more than one project simultaneously.

Some users will have good computer skills, but some users will be far from the computer world, so the system must be very user friendly.





תמונה שמכילה טקסט, קו, עיגול, תרשים

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# Manager Use - Cases

## LogIn:

### Description:

Login the registered user into the system.

### Actor:

* User.

### Pre- conditions:

* The user's credentials are saved in the system and the user is a manager.

### Post- conditions:

* The home page of the system is visible to the user.

### Main scenario:

1. The user enters the Login page.
2. The user enters username and password.
3. The system checks if the user exists in the system. If so, then the continue the use case.  
   If the user not exists in the system, the system shows error message with the error description.
4. The system redirects the user to the manager page.

## Enter a new employee:

### Description:

The manager enters a new employee to the system- with all its attributes.

### Actor:

* User.

### Pre- conditions:

* The user has access to the system, and is logged in as a manager.
* The employee is not in the system.
* All the attributes are correct and logical (hours, age…)

### Post- conditions:

* The new employee is in the system.
* The manager can see the new employee and assign it.

### Main scenario:

1. The manager logs in to the system.
2. The manager selects the option of adding new employee.
3. The manager enters all the requested attributes of the employee.
4. The manager enters username and password for the employee to be able to login to the system.
5. The system checks if the employee exists in the system. If so- the system shows error message to the user.  
   If the employee not exists in the system- then continue the use case.
6. The system checks for correctness of the fields.
7. The system saves the new employee and add it's credentials to the DB, and displays the new employee's details to the manager.

**תמונה שמכילה טקסט, צילום מסך, תרשים, קו

התיאור נוצר באופן אוטומטי**

## Enter a new project:

### Description:

The manager enters a new project to the system- with all its attributes.

### Actor:

* User.

### Pre- conditions:

* The user has access to the system, and is logged in as a manager.
* The project is not in the system.
* All the attributes are correct and logical (hours, age…)

### Post- conditions:

* The new project is in the system.
* The manager can see the new project and assign it.

### Main scenario:

1. The manager logs in to the system.
2. The manager selects the option of adding new project.
3. The manager enters all the requested attributes of the project.
4. The system checks if the project exists in the system. If so- the system shows error message to the user.  
   If the project not exists in the system- then continue the use case.
5. The system checks for correctness of the fields.
6. The system saves the new project and displays it's details to the manager.

## Enter a new role:

### Description:

The manager enters a new role to a project in the system- with all its attributes.

### Actor:

* User.

### Pre- conditions:

* The user has access to the system, and is logged in as a manager.
* The project is in the system.
* The role is not exist in the system.
* All the attributes are correct and logical.

### Post- conditions:

* The new project role is in the system.
* The manager can see the new role and assign it.

### Main scenario:

* 1. The manager logs in to the system.
  2. The system presents to the user all the projects to select project.
  3. The manager selects project to add role to it.
  4. The manager selects the option to add a new role in project.
  5. The manager enters all the requested attributes of the role including skill and for each skill the manager specified the required level and the priority of this skill.
  6. The system checks if the role exists in the system. If so- the system shows error message to the user.  
     If the project not exists in the system- then continue the use case.
  7. The system checks for correctness of the fields.
  8. The system saves the new role and displays it's details to the manager.

## Edit role:

### Description:

The manager edits the attributes of an existing role.

### Actor:

* The user.

### Pre- conditions:

* The user has access to the system, and is logged in as a manager.
* The role is in the system.
* All the attributes are correct and logical.

### Post- conditions:

* The details are updated.

### Main scenario:

1. The manager logs in to the system.
2. The system presents to the user all the projects to select project.
3. The manager enter to a project.
4. The system presents to the user all the projects roles to select role.
5. The manager selects role to edit.
6. The manager click on edit role button and edit the role as he wished.
7. The system checks for correctness of the fields.
8. The system saves change and displays it to the manager.

## Edit employee:

### Description:

The manager edits the attributes of an existing employee.

### Actor:

* The user.

### Pre- conditions:

* The user has access to the system, and is logged in as a manager.
* The employee is in the system.
* All the attributes are correct and logical (hours, age…)

### Post- conditions:

* The details are updated.

### Main scenario:

1. The manager logs in to the system.
2. The system presents the user all the employees to select employee for editing.
3. The manager selects the relevant employee and click edit.
4. The manager edits all the relevant attributes.
5. The system checks for correctness of the fields.
6. The system saves change and displays it to the manager.

תמונה שמכילה טקסט, צילום מסך, תרשים, מקביל

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## Edit project:

### Description:

The manager edits the attributes of an existing project.

### Actor:

* User.

### Pre- conditions:

* The user has access to the system, and is logged in as a manager.
* The project is in the system.
* All the attributes are correct and logical (hours, age…)

### Post- conditions:

* The details are updated.

### Main scenario:

1. The manager logs in to the system.
2. The system presents the user all the projects to select project for editing.
3. The manager selects the relevant project and click edit.
4. The manager edits all the relevant attributes.
5. The system checks for correctness of the fields.
6. The system saves change and displays it to the manager.

## Delete an employee:

### Description:

The manager deletes employee.

### Actor:

* User.

### Pre- conditions:

* The User has access to the system, and is logged in as a manager.
* The employee is in the system.

### Post- conditions:

* The employee is deleted.
* New gaps according to the delete are updated and visible to the manager.

### Main scenario:

1. The manager logs in to the system.
2. The system presents the user all the employee to select employee for delete.
3. The manager selects the relevant employee and click delete.
4. The system deletes employee and update gaps in every project related to it.

תמונה שמכילה טקסט, צילום מסך, תרשים, קו

התיאור נוצר באופן אוטומטי

## Delete a project:

### Description:

The manager deletes project.

### Actor:

* User.

### Pre- conditions:

* The user has access to the system, and is logged in as a manager.
* The project is in the system.

### Post- conditions:

* The project is deleted.
* New gaps according to the delete are updated and visible to the manager.

### Main scenario:

* 1. The manager logs in to the system.
  2. The system presents the user all the projects to select project for delete.
  3. The manager selects the relevant project and click delete.
  4. The system deletes project and update gaps in every project related to it.

## Delete role:

### Description:

The manager delete role.

### Actor:

* The user.

### Pre- conditions:

* The user has access to the system, and is logged in as a manager.
* The role is in the system.

### Post- conditions:

* The role is deleted.

### Main scenario:

1. The manager logs in to the system.
2. The system presents to the user all the projects to select project.
3. The manager enter to a project.
4. The system presents to the user all the projects roles to select role.
5. The manager selects role to delete.
6. The manager click on delete role button.
7. The system saves change and update all the relevant employees and projects related to this role.

## Assign employee to role:

### Description:

The manager assigns employee to existing role.

### Actor:

* User.

### Pre- conditions:

* The user has access to the system, and is logged in as manager.
* The employee and role are in the system.

### Post- conditions:

* The employee is assign to the role.

### Main scenario:

1. The manager logs in to the system.
2. The manager selects the option of view projects.
3. The system shows all existing projects.
4. The manager selects the relevant project.
5. The system shows all existing roles belongs to the project that was selected.
6. The manager selects the relevant role that he wants to assign the employee to.
7. The manager enters the employee he wants.
8. The system saves the new assignment and displays it to the manager.

## 11. Assign employee to role based on suggestion of the system:

### Description:

The manager assign employee to role according to the suggestion of the system.

### Actor:

* User.

### Pre- conditions:

* The user has access to the system, and is logged in as manager.
* The relevant role for assignment is in the system.

### Post- conditions:

* An employee is assign to the role.

### Main scenario:

1. The manager logs in to the system.
2. The manager selects the option of view projects.
3. The system shows all existing projects.
4. The manager selects the relevant project.
5. The system shows all existing roles belongs to the project that was selected.
6. The manager selects the relevant role that he wants to assign the employee to.
7. The manager selects the option of assigning employee based on system suggestion.
8. The system calculates the score of each employee in the system based on the employee's and role's attributes, and show the manager the relevant employees order by score.
9. The manager selects the employee he wants to assign to the role.
10. The system saves the new assignment and displays it to the manager.

## Open employee gap "ticket"

### Description:

The manager open a ticket of employee's absence.

### Actor:

* User.

### Pre- conditions:

* The user has access to the system, and is logged in as a manager.
* The employee is in the system.

### Post- conditions:

* The ticket is in the system and visible to the manager.
* The gaps in the projects where the employee is assigned are visible to the manager in the gaps page.

### Main scenario:

1. The manager logs in to the system.
2. The manager selects the option of view employees.
3. The system shows all existing employees.
4. The manager selects the relevant employee.
5. The manager selects the option of opening new employee's absence ticket.
6. The manager enters the relevant dates and reason of leaving.
7. The system creates gaps tickets for the employee with all the roles the employee is assigned to and the details of the dates.

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## Handle ticket:

### Description:

The manager closes ticket by changing assignment of employees for each role in the ticket.

### Actor:

* User.

### Pre- conditions:

* The manager has access to the system, and is logged in as a manager.
* A gap ticket is open and visible to the manager.

### Post- conditions:

* Optional: the ticket is closed.
* Optional: new gap ticket is created.
* Changes of employees assignments are updated in the system and visible to the manager.

### Main scenario:

1. The manager logs in to the system.
2. The manager selects the option of view gaps tickets.
3. The system presents all the gaps tickets.
4. The manager selects option of solving a ticket for a specific ticket.
5. The system shows all the roles effected from the gap.
6. The manager goes into each role and:
   1. The manager assign employee to role according to use case "assign employee to role based on suggestion of the system"or **"**Assign employee to role"
   2. The system updates the change and shows the manager update image of the employee's assignment, projects gaps and utilization.
7. The system updates the new assignments and show the updated image to the manager.

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# Employee Use - Cases

## Log in Employee:

### Description:

Login the registered user into the system.

### Actor:

* User.

### Pre- conditions:

* The user's credentials are saved in the system and he is an employee.

### Post- conditions:

* The home page of the system is visible to the user.

### Main scenario:

1. The user enters the Login page.
2. The user enters username and password.
3. The system checks if the user exists in the system. If so, then the continue the use case.  
   If the user not exists in the system, the system shows error message with the error description.
4. The system redirect the user to the employee page.

## Edit Employee details:

### Description:

The employee edit his details to the system- with all its attributes.

### Actor:

* User.

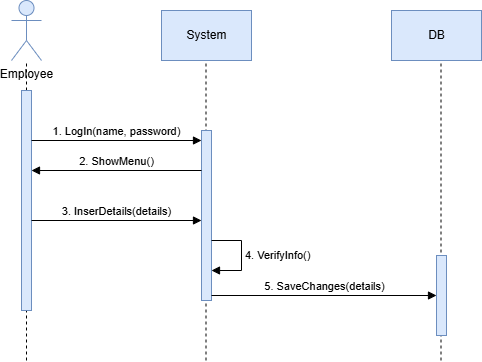
### Pre- conditions:

* The employee has access to the system, and is logged in as an employee.
* The employee is in the system.
* All the attributes are correct and logical (hours, age…)

### Post- conditions:

* The employee's details are in the system.
* The manager can see the employee and assign it.

### Main scenario:

1. The employee logs in to the system.
2. The employee selects the option of edit employee's details.
3. The employee enters all the requested attributes.
4. The system checks for correctness of the fields.
5. The system saves the new details and displays them to the manager.

## Open ticket:

### Description:

The employee opens a ticket for his absence.

### Actor:

* User.

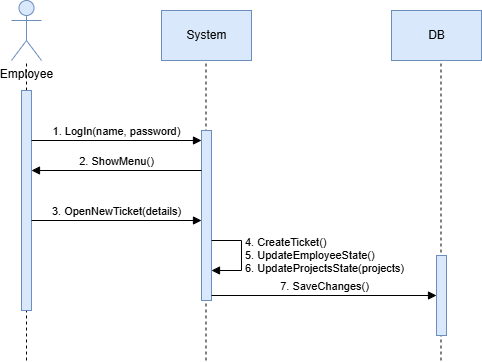
### Pre- conditions:

* The user has access to the system, and is logged in as an employee.
* The employee's details are in the system.

### Post- conditions:

* The ticket is in the system and visible to the manager.
* The gaps in the projects where the employee is assigned are visible to the manager in the gaps page.

### Main scenario:

1. The employee logs in to the system.
2. The employee selects the option of opening a new absence ticket.
3. The employee enters the relevant details such as dates and reason for leaving.
4. The system creates gaps tickets for each project the employee is assigned to, with details of the gaps.

## View employee's allocation to projects:

### Description:

The employee views his allocation to projects- days of week, language, and percentages of work.

### Actor:

* User.

### Pre- conditions:

* The user has access to the system, and is logged in as an employee.
* The employee's details are in the system.

### Post- conditions:

* The employee gets a page with all the projects he is allocated to with all their details.

### Main scenario:

1. The employee logs in to the system.
2. The employee selects the option of view his current allocation status.
3. תמונה שמכילה טקסט, צילום מסך, תרשים, מקביל

   התיאור נוצר באופן אוטומטיThe system loads a page with all the employee's allocated projects and details.

# Big Management Use - Cases

## View Information per project and per employee:

### Description:

The manager views details about all the employees, the working hours for each project and more relevant statistics.

### Actor:

* The Big Manager.

### Pre- conditions:

* The Big Manager has access to the system, and is logged in.

### Post- conditions:

* The Big Manager gets a page with all the relevant information.

### Main scenario:

1. The Big Manager logs in to the system.
2. The Big Manager selects the option of view the employees and projects information.
3. The system loads a page with all the relevant information.

**תמונה שמכילה טקסט, צילום מסך, תרשים, קו

התיאור נוצר באופן אוטומטי**

Chapter 2

System Architecture

Chapter 3

Data Model

Chapter 4

Behavioral Analysis

Chapter 5

Object-Oriented Analysis

Chapter 6

User Interface