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**ADA UNIVERSITY**

**SCHOOL OF IT & ENGINEERING**

Course: Object-Oriented Analysis & Design

# HOMEWORK ASSIGNMENT

Project title: ***“Human Resources Management Systems”***

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# Introduction

This document briefly specifies the functional and nonfunctional software requirements which also contains core and optional requirements, implementation of use-case, class and sequence diagrams for the Human Resources Management Systems.

The definition of human resources management is used to describe the companies and the employees who work in those companies by being responsible with the management of resources for employees such as involving hiring, firing, developing with trainings and etc. Most of the time the company’s HR department is responsible for hiring employees, helping them to develop and maintain the system and governing the employees of the company. For fulfilling all the requirements to develop the company by checking every employee in the system and tasks that are given to the employees HR department uses the system or software Human Resource Management Systems.

The aim of this document/homework is to create the software requirements and diagrams for our system in order to give brief information about the software itself. In upcoming documents, we will be able to develop and maintain our system more by checking the software requirements.

# Software Requirements

# Functional Requirements

Before specifying all the requirements, first we have to explain what exactly are functional requirements and the importance of them in the development of system. Functional requirements are the requirements that define all the functions that the system should do and accomplish with specifying the behaviors of inputs and outputs of system and how they are affected. Functional requirements are the fundamental concept when someone develops the system because all the requirements should be gathered from stakeholder’s (also called costumers) requests in a sense of what kind of system they desire. Developers use the requirements in order to make the system regarding to the specific request that have been made by stakeholders and develop use-case, class and sequence diagrams by the help of gathered requirements.

During the JAD session, we have created several functional and nonfunctional requirements for our system. Here’s the list of functional requirements which we will develop for our project:

1. The employees should be able to register to the system by specifying the required information.
2. The employees should be able to login to the system by specifying the information that they specified in the first section.
3. The employees should able to modify the data they entered beforehand.
4. The system should be able to add the employees to the system and database.
5. The system should be able to check all the employees that has been added to database.
6. The system should be able to search for registered employees.
7. The system should be able to identify the privileges of the registered users.
8. The system should be able to manage work tasks, requests and delegation
9. The system should be able to manage vacancies and recruitment.
10. The system should have the functionality which will give an opportunity to assign a task to the users by the authorized users such as HR department.
11. The system shall be able to change the progress of the tasks in the profiles of the users.
12. The system should have the functionality of getting reports from the employees about the tasks they have or completed.
13. The system should have the functionality of promoting the employees in the company.
14. The system should be able to have user’s card information in order to give the salary.

# Nonfunctional Requirements

1. The number of online employees of the HRMS can be estimated as 50 at most.
2. There should not be any restriction on the number of users to be added to the database.
3. The system should have a user-friendly homepage which means all links should be able to find in three clicks
4. The system should be able to have the function of audio call for conferences.
5. The system may have the function of video call for conferences.
6. The system should also automatically generate documents which facilitate related human resources management activities.
7. The system should be able to monitor the status of issued problems for the company.
8. The system should be able to determine and apply the appropriate pay scale for employee.
9. The system may have the option of updating personal information about the employee.
10. The system should be able to generate the report for one year of work.
11. The system should be able to provide capability to identify the transactions from other systems.