Saturday, 26 November, 2022

Abstract

Submitted in partial fulfillment of the requirements of the software engineering course  
Habiba Amr 2020/08121  
Noran Essam 2020/07406  
Rana Ehab 2020/15051  
Mariam Maged 2020/00559  
Belal Adel 2020/11213

Software Design v1.0

For Productivity Manager System

Contents

[Introduction 2](#_Toc120300366)

[Purpose 2](#_Toc120300367)

[Overview 2](#_Toc120300368)

[Sequence Diagrams 0](#_Toc120300369)

[Add new Project 0](#_Toc120300370)

[Add New User 1](#_Toc120300371)

[Assign Employee to project 2](#_Toc120300372)

[Update employee utilization On Project 3](#_Toc120300373)

[View employees 4](#_Toc120300374)

[View Projects 5](#_Toc120300375)

[View project statistics 6](#_Toc120300376)

[View Employee Statistics 7](#_Toc120300377)

[Designs 8](#_Toc120300378)

[Class Diagram 8](#_Toc120300379)

# Introduction

## Purpose

This document defines the system design for this productivity management system. It should illustrate how classes will be structured and arranged and how they will communicate.

This document also includes sequence diagrams to follow up some use case descriptions.

## Overview

In this document, the system structure is described in the class diagram. Sequence diagrams for functional requirements are also included as follow up on the SRS document.[[1]](#footnote-1)

# Sequence Diagrams

## Add new Project

* See use case: UC4.1

Diagram

Description automatically generated

## Add New User

* See use case: UC2.1

Diagram

Description automatically generated

## Assign Employee to project

* See use case: UC4.3.1

Diagram

Description automatically generated

## Update employee utilization On Project

* See use case: UC4.3.4

Diagram

Description automatically generated

## View employees

* See use case: UC3.2

Diagram

Description automatically generated

## View Projects

* See use case: UC4.2

Diagram

Description automatically generated

## View project statistics

* See use case: UC5

Diagram

Description automatically generated

## View Employee Statistics

* See use case: UC5

Diagram

Description automatically generated

# Designs

## Class Diagram

Diagram

Description automatically generated

1. See SRS document for details about functional requirements and their use cases. [↑](#footnote-ref-1)