CDAC Mumbai DAC Forum & Mentor

Assessment

**SOFTWARE REQUIREMENT SPECIFICATION FOR**

**E-PHARMA**

**[16-06-2019]**

**CDAC, MUMBAI**

## Revision History:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Version.** | **DATE** | **Authored By** | **Reviewed By** | **REASON FOR CHANGE** |
| 00 | 16/06/2019 | Team-09 |  | 1st release |

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# Introduction

## Purpose

**E-PHARMA** is a web application through which the customer will be able to search and buy the medicine from anywhere and as per the requirements and also the medecines will be delivered to user.

This project aims at solving the above issues such as urgent need of medicine,unavailabilty of medicines etc by providing an option to order medicine online and get it delivered at your location in feasible time.

One can order medicines compared with different stores in best prices. The purpose of this project is to ease buying medicines at better prices and save time.

## Document Convention Headings: -

Text: -Bold Font-Size: - 14

Highlighting: - Times New Roman

## Sub Headings: -

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Highlighting: - Times New Roman

## Header: -

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## Footer: -

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Highlighting: - Times New Roman

## Intended Audience and Reading Suggestions

This document is intended for developers, users, testers and project managers for the purpose of understanding the design of system in terms of different perspectives. Further, this document contains functionalities and characteristics of system along with the working Environment. It also includes other information related to system such as external interface requirements, features and other non - functional requirements.

# Product Scope

Our project is targeted on easy accessibility of authorized medicines by order. The user can surf the medicine items according to categories.

It provides 24 hours service. One can check the reviews and ratings of a pharmacy. It also provides exclusive medicines at lower prices after comparing it with different stores. Payment can be done through online payment gateway or cash on delivery.

# References

<https://stackoverflow.com/>

<https://docs.microsoft.com/en-us/dotnet/>

<https://www.asp.net/>

<https://html.com/>

<https://git-scm.com/>

# Overall Description

## Product Perspective

## 

## Some of the Existing E-Pharmacy sites in market are unlicensed. Sites that offer to sell you drugs without a doctor’s prescription are unlicensed. There is also a high probability of buying counterfeit drugs. With so many of these E-pharmacy sites being illegal, counterfeit and fake drugs are bound to make rounds.

## Some of them may ask for personal and financial information which they may end up selling. Some of the sites don’t have proper security measures and thus are prone to hackers. Delivery for some of the drugs can take a few days. This can be unfortunate for you if you need your medication urgently.

## Keeping in mind these types of disadvantages we developed “E-PHARMA” an online medicine web-application as a replacement for the unlicensed sites and maintain a little safety and security of users.

## Will provide a convenient, Private and Confidential, Time and Money Saving and affordable way.

## 

## Product Functions

## The customer will able to view medicines category wise.

## The customer can compare prices with different stores.

## The customer can also view reviews and ratings of the medicine.

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## User Classes and Characteristics Admin:

Admin can view the user’s details which are given during registration.

Admin can add medicine item details like name, photo, description, formula; price and category will be able to access all the functions of the system.

Admin can view, edit the medicine items details as well as Enable/disable medicine items according to availability of their expiry dates.

Admin will look into supply management and will view analytics.

## Customer:

User has to register with essential details for medicine ordering system.

User has to log in with their credentials to access medicine ordering system.  
Different medicine items with respective categories viewable to the user.

User can view medicine items details and buy the product by doing online payment

## Supplier:

## Supplier has to register with essential details for stock update.

## Supplier has to login with essential details for stock update.

## Supplier will update the stock and create a stock report.

# Operating Environment

## Hardware platform:

* + - * Processor – Above Pentium 4, with clock speed of 2.0 GHz
      * RAM – 1 GB or above
      * Hard Disk – Free disk space of above 1 GB

## Software platform:

* + - * Front-end: HTML, CSS, Bootstrap, JavaScript
      * Back-end: .Net

## Supported tools:

* + - * Visual Code Studio, MySQL Workbench,GIT

# Design and Implementation Constraints

## Constraints:

* User interface is only in English. No other language option is available
* User can log-in only with his assigned user-name and password
* Limited to HTTP/HTTPS

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# User Documentation

User documentation mainly comprises of Help menu of application. It will give all the minute details about the project, if any user has any query about any module or functionality, one can refer it and see how to operate the application. This report is the complete documentation of our project. It gives complete details about the project, its functionality, users, software used, hardware requirement, and environment and so on.

# Assumptions and Dependencies

* Assumptions
  + There is an active internet connection with the system
  + The system has internet browser installed
  + Users know the English language, as the user interface will be provided in English.
* Dependencies:
  + There is a need of constant updating of stock for medicines after any medicines are added.
  + Active participation of users for review and rating is required.

# External Interface Requirements

## User Interfaces

The main element is web-pages using HTML, Angular Material. Multiple interfaces are there like log-in pages, home pages of Student, Admin, Mentor, and also the Forum.Admin will update excel sheet for marks and accordingly data will be persisted. Based on these marks and the feedback provided by students, mentors performance would be evaluated in a graphical format.

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## Hardware Interfaces

In the hardware interface, the system interacts with hardware given the processor is above P4 with clock speed of 2.0 GHz with 1 GB RAM and the Hard Disk with 1 GB free space in the memory. In future enhancements, it can be made responsive to be able to work with mobile devices as well.

## Software Interfaces

In software interfaces, Node JS is the back-end technology used along with MySQL Database. The front-end technologies include HTML, CSS, Bootstrap, Angular and Angular Material. Data will be communicated between these interfaces accordingly.

## Communications Interfaces

The main communication interface for interacting with the System will be the web Browser.

# System Features

## Description

This system will help CDAC students to ask questions and get their doubts solved. This system will help students to see their performance. This system will help CDAC Management automate the mentor attendance system. This software also aims at carrying out an analysis of the mentor’s performance which will in return help us improve the performance of the students. This system will help us generate a performance result of the student and the mentor as well.

## Functional Requirements

* + 1. **Forum**
       - The system will allow students to ask questions and put forth their doubts.
       - The system will allow others to answer the questions.
       - The system will show who has posted the question and who has answered the question.

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## Agenda

* + - * The mentor will be able to post the agenda for the entire session that he/she wishes to take.
      * The system shall allow students to suggest and add up some points in the suggested agenda.
      * The system shall also display the ongoing/ important agenda on the page (display).

## Mentor Attendance

* + - * The system should maintain a log of the mentor’s attendance.
      * The system will thus help us automate the process of manual attendance.
      * Thus, using this system, we will be able to save a lot of time and energy.

## Student Rank

* + - * The system shall display the student rank based on their performance.

## Mentor Analysis

The system shall allow the CDAC Management to view the performance of the mentor based on various parameters. This will help the CDAC Management understand how the students have improved as well.

# Performance Requirements

The system should store all the database records of each student, mentor and admin staff properly and the application should be available for use 24\*7 through the server. Also, the application should be user friendly with a proper user interface which makes it easy for the user to understand. All the options should be present in properly accessible places for user convenience.

## Safety Requirements

All login ids and passwords of the students, mentors and especially admin staff should be protected for privacy using whatever constraints required in the database or the application. In case any admin staff access account is hacked by any intruder, user id and passwords of all the

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admin staff personnel should be changed and new passwords should be issued to all students. Student and Mentor records are to be backed up securely across database servers. Incase database is hacked by someone and data is deleted a backup server should be present for such purpose.

## Security Requirements

All passwords of the administrators should be protected for privacy using whatever constraints required in the database or the application. Transactions regarding student and mentor records should be carried out properly. Only admin staff will have access rights to the student data according to the need for E.g.: -marks and feedback for mentor, passwords etc. The database should be protected from attacks and unauthorized access. The interface should be protected from attacks. All passwords should be stored as a secure hash of the administrator password.

## Software Quality Attributes 5.3.1Availability

The system should run on a variety of operating systems that support the JavaScript language. The system should run on a variety of hardware.

## Accessibility

The software will be accessible to admin, students and mentors.

## Compatibility

The software will be compatible with multiple platforms.

## Durability

The software will be tested for working with multiple users.

## Effectiveness

The software will be made to handle operations effectively.

## Maintainability

The system should be easy to maintain. There should be a clear separation between the interface and the business logic code. There should be a clear separation between the data access objects that map the database and the business logic code.

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# Other Requirements

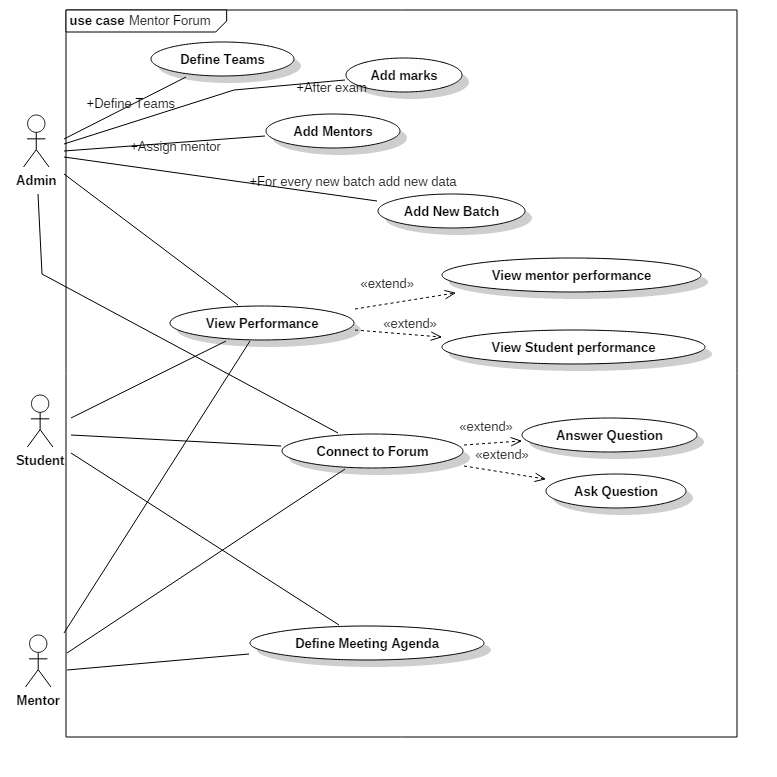
* **Appendix A: Glossary**
* **SRS:** Software Requirement Specification
* **GUI:** Graphical User Interface
* **P4:** Pentium 4
* **SQL:** Structured Query Language
* **HTML:** Hyper Text Markup Language
* **CSS:** Cascading Style Sheet

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# Appendix B: Analysis Models

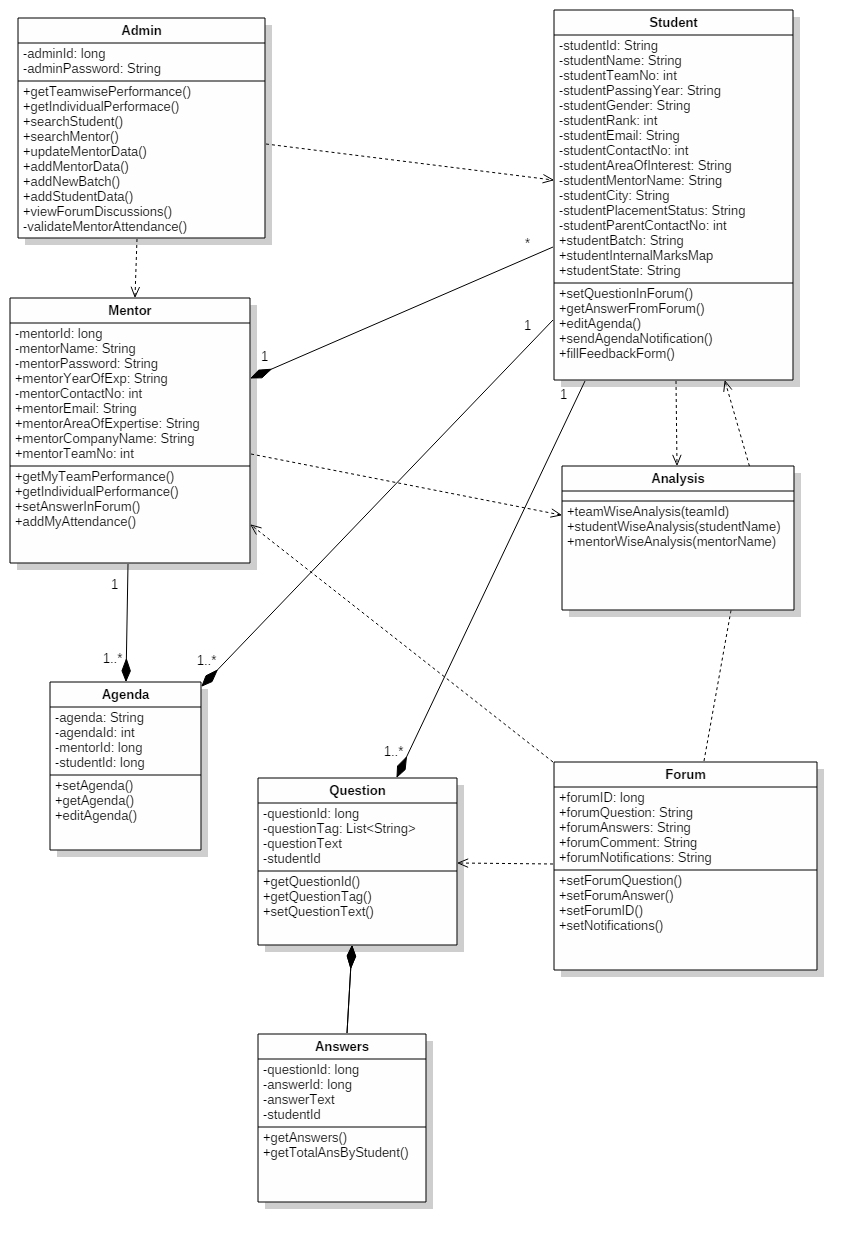
## Use Case Diagram



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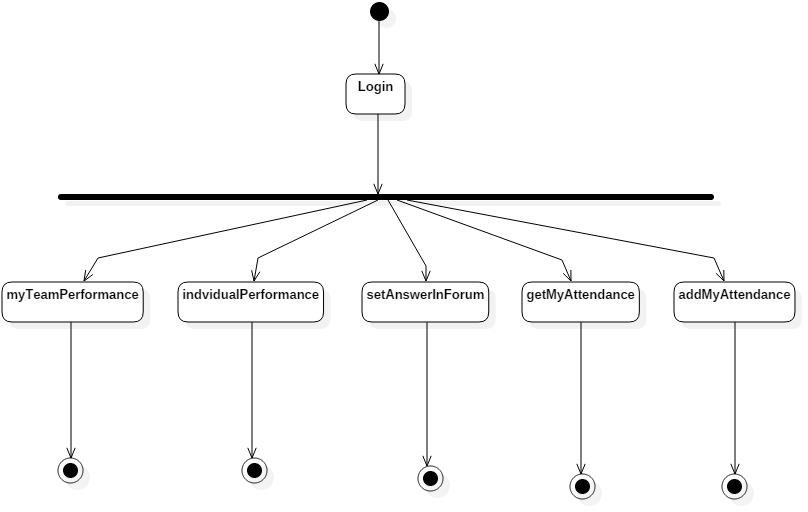
## Class Diagram



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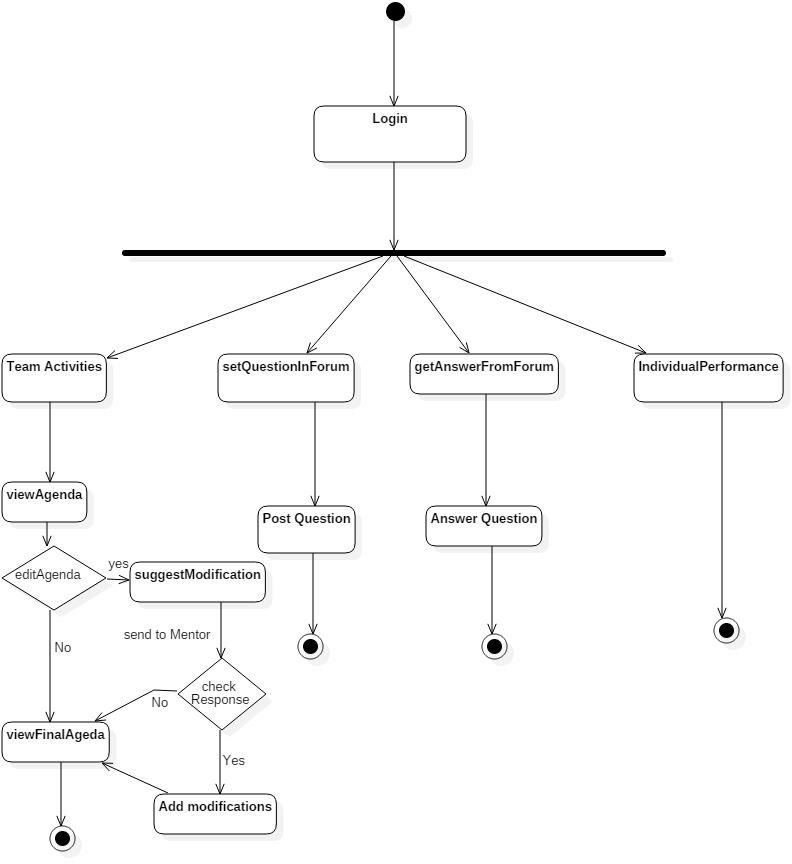
## Activity Diagram 1.1:



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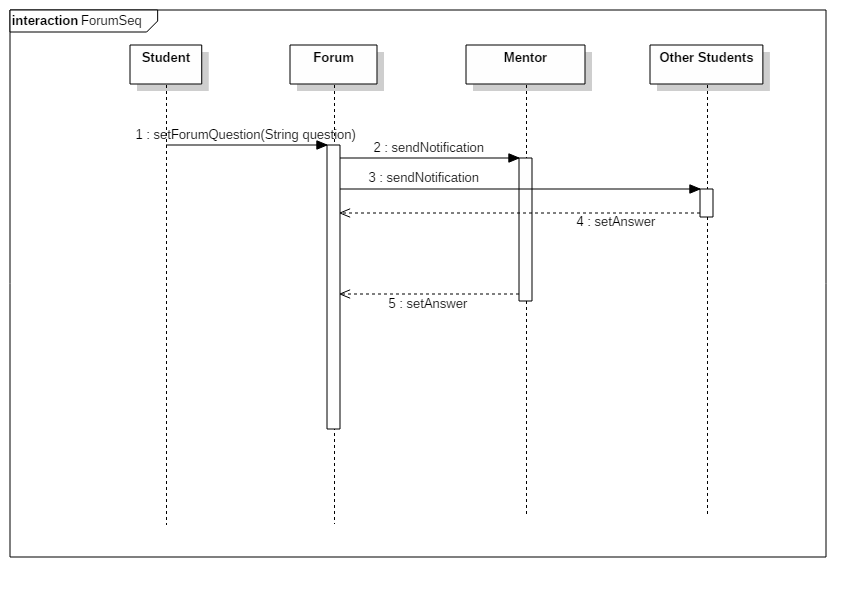
## Activity Diagram 1.2:



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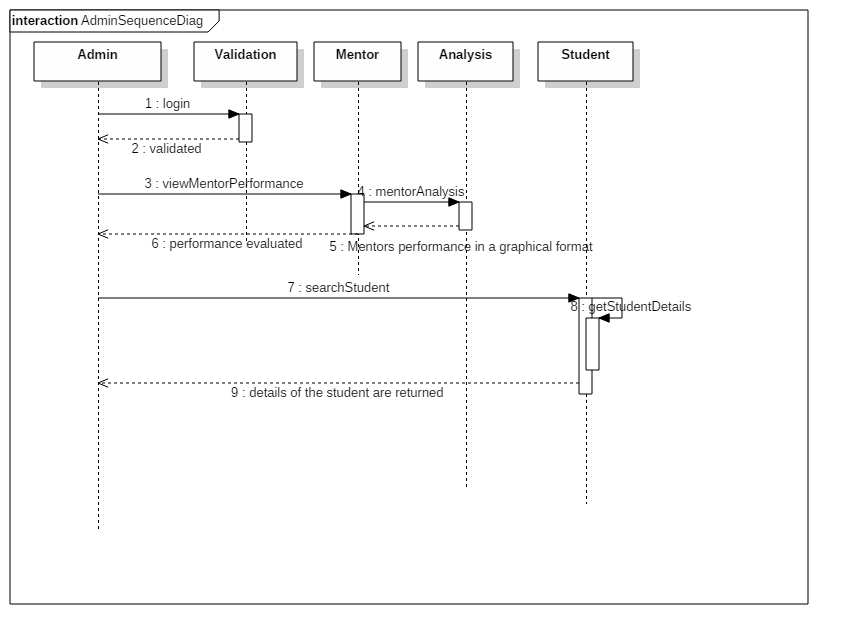
## Sequence Diagram 1.1:



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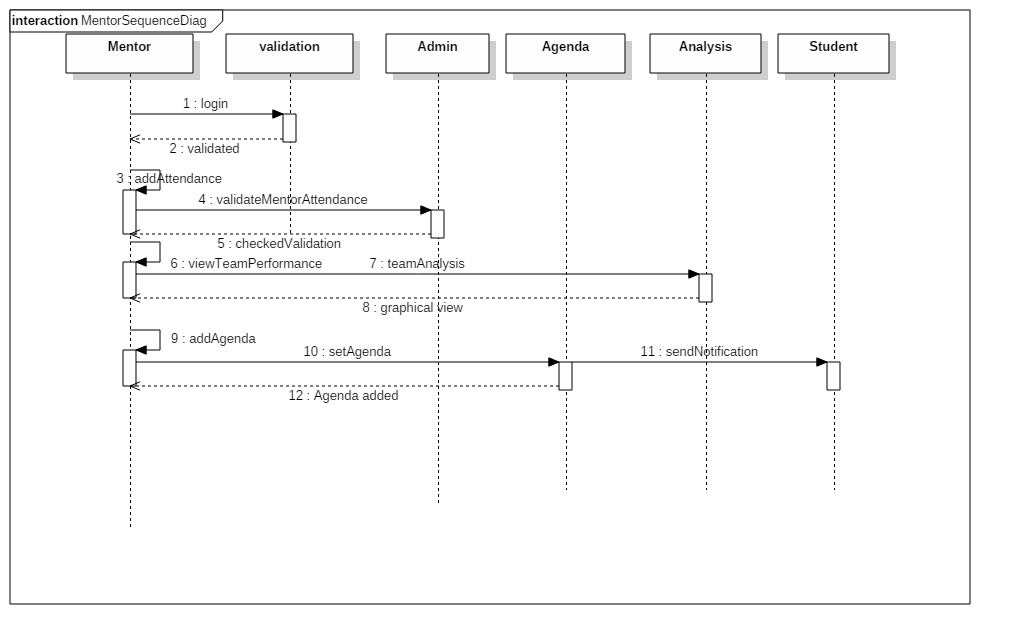
## Sequence Diagram 1.2:



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## Sequence Diagram 1.3:



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## Sequence Diagram 1.4:

