

**BAHIRDAR UNIVERSITY**

**INSTITUTE OF TECHNOLOGY**

**DEPARTMENT OF SOFTWARE ENGINERRING**

**SOFTWARE ENGINERING TOOLS AND PRACTICE**

**CLINICAL Information MANAGEMENT SYSTEM**

**GROUP ASSIGNMENT section B**

**GROUP MEMBERS ID**

1. Dawit Fikade 1102887
2. Thomas Abebe 1102028
3. Resekal Enku 1102079
4. Ermias Girma 1102025
5. Tinsaye Abiy 1102813

6.Kirubel Yeshanew 1102836

Submitted to Mr . Mintesinot

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Submitted for Mr . Asegahgn E.

Submitted for Mr . Asegahgn E.

Submitted for Mr . Asegahgn E.

Submitted for Mr . Asegahgn E.

Submitted for Mr . Asegahgn E.

Submitted for Mr . Asegahgn E.

1. Acknowledgement

First of all, we would like to thanks our creature GOD to his mystic help. We would like to express our special thanks of gratitude to our teacher Mr. Mintesinot who gave us the opportunity to do this amazing project and help as to know more about software engineering tools and practice and for his continuous expert advice. The last but not the least we would like to thank is no other one but our group members for all their hard work and great participation to do this assignment or project.

1. Introduction

This project is focus on Bahirdar University college of Yibab campus clinic management information system. In this project we try to include all the necessary things and concepts that are used to develop a computerized system like system use case, state diagram, sequence diagram, and so on. And we try to show how the user interact with the system in detail.

1. Use case diagram



1. Functional requirement

Some of the functional requirement of the system are

* The system displays the appointment date.
* Assign medical ID number that is given by the clinic, to the patients
* The system registers the patient.
* The doctor is going to give appointment to the patients.
* The system displays the patient profile.
* The patient check he/she has appointments from the system.
* The pharmacist registers the drugs name and expiry date.
* The manager controls the worker status.
* The manager will update the status of the worker in the system
* The system can search the drug by its name to gate full information about the intended drug
* The system displays the drug information

1. State diagram



1. Sequence diagram











1. Class diagram



1. Generated source code

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1.DOCTOR

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import java.util.Vector;

public class Doctor {

private string Name;

private char Sex;

private int ID;

private string Address;

private string username;

private string password;

public Vector mymanager;

public Vector mypatient;

public void giveAppointment() {

}

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2.manager

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import java.util.Vector;

public class manager {

private string name;

private char sex;

private int id;

private string adress;

private string Usrename;

public string password;

public Vector mypharmacist;

public Vector myDoctor;

public Vector myReceptionist;

public void controlworkerstatus() {

}

public void controlworkerAttendance() {

}

}

}

}

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3.PATIENT

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import java.util.Vector;

public class patient {

private string name;

private char sex;

private int id;

private string adress;

public Vector myDoctor;

public Vector myReceptionist;

public void takeAppointment() {

}

}

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4.PHARMACIST

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import java.util.Vector;

public class pharmacist {

private String Name;

private char sex;

private int ID;

private string Address;

private String Username;

private string Password;

public Vector mymanager;

public void RegisterDrugInformation() {

}

public void checkDruginfo() {

}

}

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5.RECEPTIONIST

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import java.util.Vector;

public class Receptionist {

private string Name;

private char sex;

private int id;

private string Address;

public Vector mypatient;

public Vector mymanager;

public void patientREGISTRATION() {

}

public void FillMedicalRecords() {

}

}