

DATABASE MANAGEMENT SYSTEM

PROJECT PRESENTATION

PROJECT: DIU MEDICAL CENTER MANAGEMENT SYSTEM

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project discription

"Our medical center management system helps students and staff at our university access medical services efficiently. Students can schedule appointments, request medications, and manage their health records. Each appointment is associated with a specific date and time and is assigned to a department and a doctor. Diagnoses and prescribed medications are recorded for each visit. Our system also maintains a database of doctors, including their names and contact information. With easy access to medical care, our system aims to promote the well-being of our university community."

PROPOSED PROJECT

STUDENTID: 1010

STUDENTPHONE: +8801799900011

STUDENTNAME: ELIYAS

STUDENTMAIL: ELIYAS1010@DIU.COM

DEPARTMENTID: 51

DEPARTMENTNAME: ITM

DEPARTMENTLOCATION: 5TH FLOOR KNOWLEDGE TOWER

diagonosisid	diagonosisdate	sickness	medication	doctorid	doctorname	doctormail
1001	1/2/24	fever	napa	5001	Alim	alim@doc.com
1003	8/2/24	fever	napa	5001	Alim	alim@doc.com
1007	12/3/24	headache	napa	5006	Sabbir	sabbir@doc.com

UNF: studentid,studentname,studentphone,studentmail,departmentid,departmentname,departmentlocation
,diagnosisid,diagnosisdate,sickness,medication,doctorid,doctorname,doctormail.

1NF: Remove repeating groups

studentid,studentname,studentphone,studentmail,departmentid,departmentname,departmentlocation ,
studentid,diagnosisid,diagnosisdate,sickness,medication,doctorid,doctorname,doctormail.(add primary key and make it composite key)

1NF: studentid, studentname, studentphone, studentmail, departmentid, departmentname, departmentlocation ,
studentid, diagnosisid, diagnosisdate, , sickness, medication, doctorid, doctorname, doctormail. (add primary key and make it composite key)

2NF: Remove partial dependency

studentid, studentname, studentphone, studentmail, departmentid, departmentname, departmentlocation ,

studentid, diagnosisid, sickness, medication, doctorid, doctorname, doctormail.

diagnosisid, diagnosisdate,

3NF: Transitive dependency

studentid, studentname, studentphone, studentmail, departmentid(fk)

departmentid(pk), departmentname, departmentlocation

studentid, diagnosisid, sickness, medication, doctorid(fk)

doctorid(pk), doctorname, doctormail

diagnosisid, diagnosisdate

Student table

Studentid	studentname	studentphone	studentmail	departmentid
1001	ali	9990009900	ali@gmail.com	51
1002	robi	3000400400	robi@gmail.com	51

Department table

departmentid	departmentname	departmentlocation
51	ITM	5th floor knowledge tower
51	ITM	5th floor knowledge tower

Medication record table

studentid	diagonosisid	sickness	medication	doctorid
1001	7070	fever	napa	121
1002	7077	fever	napa	121

Doctor table

doctorid	doctorname	doctormail
121	mofiz	mofiz@doc.com
122	shamshu	shamshu@doc.com

Diagnosis table

diagnosisid	diagnosisdate
712	12/3/24
718	16/3/24

ER DIAGRAM

