

# Project: **Hospital Management System**

**The Project work submitted to  
Mr.Shahzad khan Dept.CS UCS Shankar.**

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**MCS-II**

In partial fulfillment of requirements for the course on  
**Database Management System**  
For completion of 2<sup>nd</sup> Semester, MCS.

AWKUM (Mardan)  
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# Introduction

## ○ Synopsis & Purpose:

- The Software is for the automation of a tiny Hospital Management.
- It can be used in any Hospital, Clinic or Dispensary for maintaining patient details and their results.
- The details gives the doctor, staffs details and patient details including doctor's appointments and the billing system.

# Preliminary Study

## SDLC

- Planning
- Analysis
- Design
  - Logical Design
  - Physical Design

# Objective Analysis

- Admission:
  - Patient admit in hospital.
- Patient details:
  - Patient bio data.
- Doctors:
  - Doctors detail + appointment.
- Staff:
  - Nurse on duty & receptionist, accountant.
- Consultation:
  - Diagnosis treatment & medicine.
- Bill:
  - Billing of out patient.

# Output Result

- Patient diagnosis & test record.
- Patient treatment result card.
- Out patient bill deposit.
- Patient discharge certificate.

# Project Requirements

## Operating Systems:

- Windows XP and above
- Windows 7

## Database:

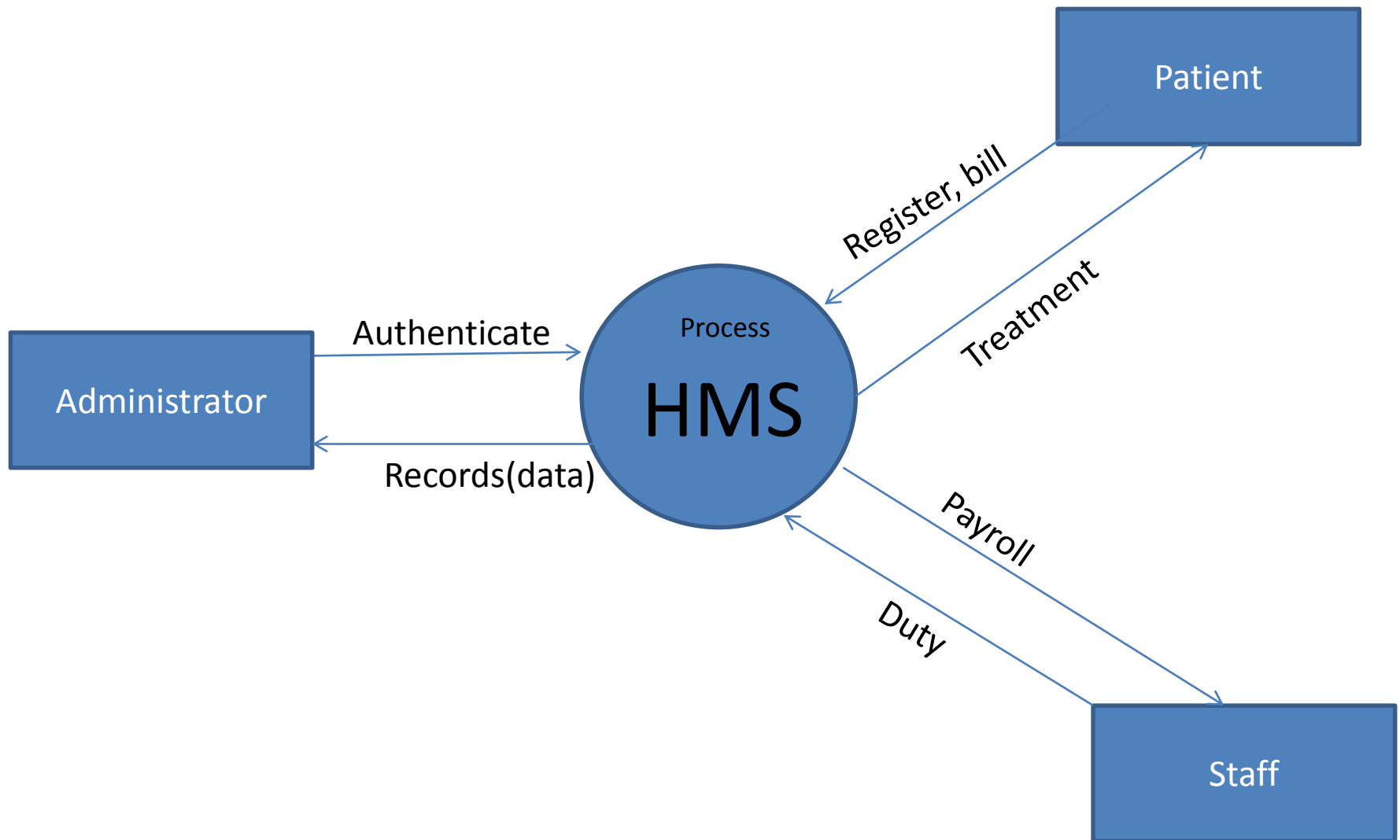
- SQL SERVER

## S/W applications:

- MS PowerPoint
- Adobe Photoshop

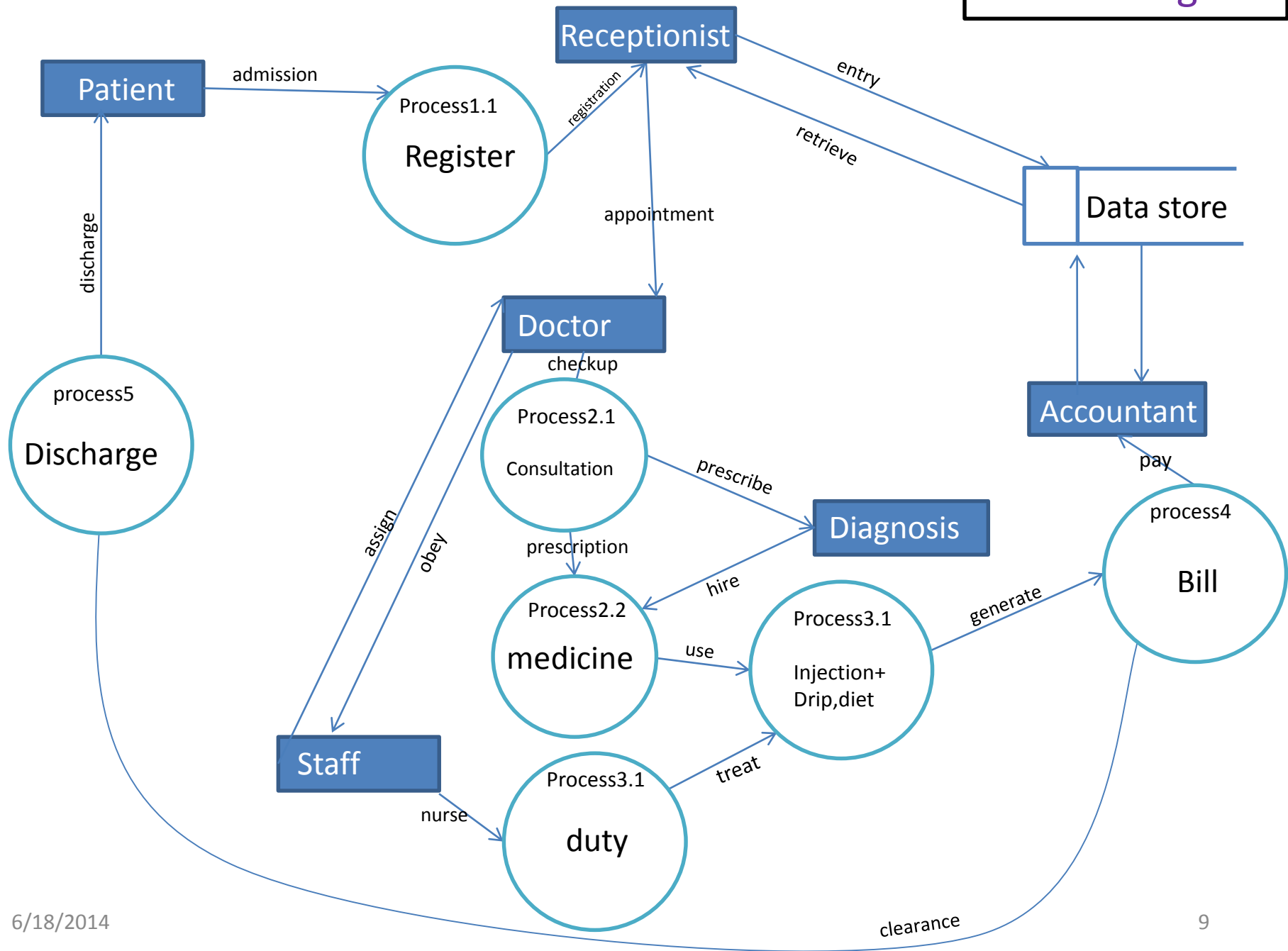
# Logical Database Designing

Entity Relationships

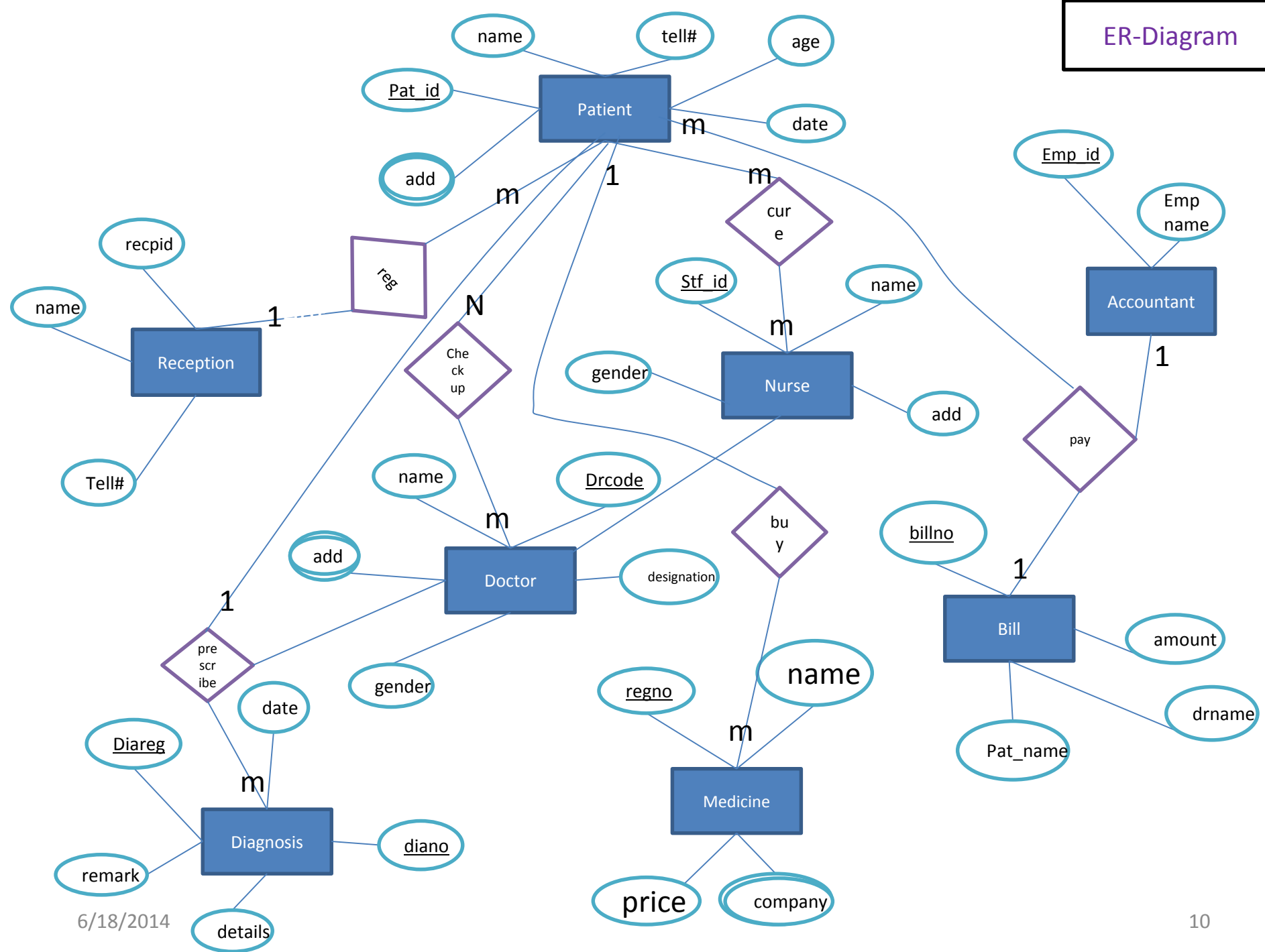


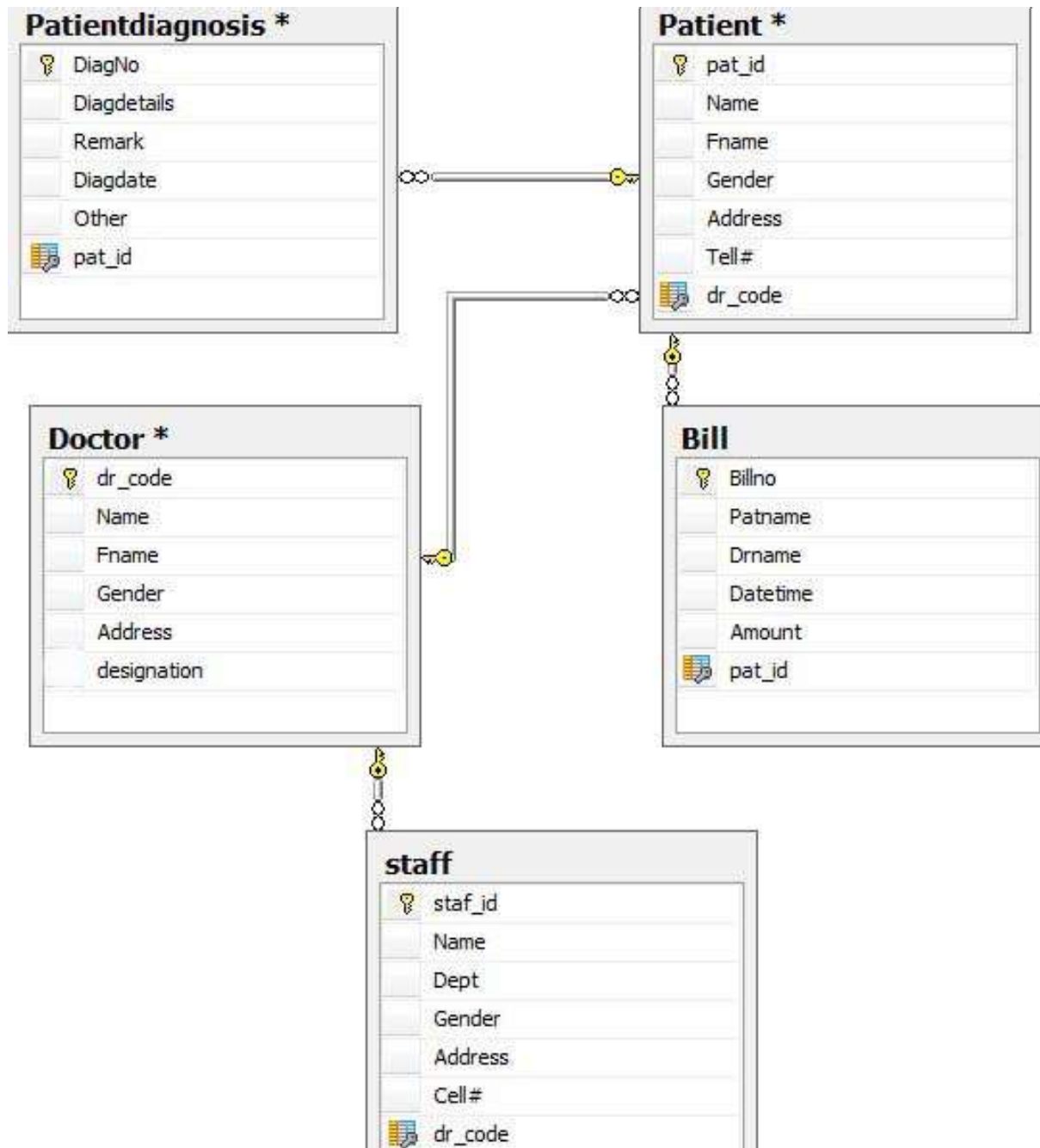


# Level 0 Diagram



# ER-Diagram





# Physical Database Designing

# Tables

The Database consists of 5 tables; patient, doctor, staff, diagnosis and bill. The 'patient' table consists of the basic data about the patient. 'doctor' consists of the information about doctor. The table 'staff' consists of the information regarding the staff(employee, nurse). 'Diagnosis' consists of data about the patient's feverish. And finally, 'bill' table records the fee data of patient. In this way the entire billing system is integrated within a single database.

## Patient Table

	pat_id	Name	Fname	Gender	Address	Tell#	dr_code
1	2	Ali	Azmat	male	Swabi	87644	NULL
2	5	Jawad	Ali	male	Swabi	-15457	NULL
3	8	Haseeb	Hilal	male	Mardan	-14347	NULL
4	11	Hafez	Hilal	male	Swwat	-14447	NULL
5	14	Iqbal	Tskn	male	Swwat	155515557	NULL
6	17	Hira	farhan	female	Swwat	333315557	NULL
7	20	Sara	Aroon	female	Swwat	333315557	NULL
8	23	Aina	Aryan	female	Swwat	333315557	NULL
9	26	Mowazam	Ayan	male	Buner	337655557	NULL
10	29	Mowazam	Ayan	male	Buner	337655557	NULL

## Doctor Table

	dr_code	Name	Fname	Gender	Address	designation
1	1	Farhan	Ali	male	Mardan	Depthead
2	2	Ajmal	Hayat	male	Mardan	head
3	3	Sidra	Kaeem	female	Charsadda	head
4	4	Sara	Rashid	female	Swabi	head
5	5	Palwasha	Rashid	female	Swabi	Dr
6	6	Mowazzam	Iqbal	male	Swabi	Surgeon
7	7	Ahmad	Saleem	male	Buner	Surgeon
8	8	Ahmad	Saleem	male	Buner	Surgeon
9	9	Ahmad	Saleem	male	Buner	Surgeon

## Staff Table

Results		Messages					
	staf_id	Name	Dept	Gender	Address	Cell#	dr_code
1	1	Palwasha	OPD	female	Swabi	35677	NULL
2	37	Ali	Arthhodic	male	Peshawer	37747	NULL
3	39	Hafeez	Heart	male	Noshehra	37747	NULL
4	41	Nayab	Heart	fmale	Mardan	37747	NULL
5	43	Zulfiqar	Lab	male	Swabi	37747	NULL
6	45	Fatima	Physcology	fmale	Mardan	37747	NULL
7	47	Shahab	oprtn	male	Swat	38647	NULL
8	49	Haseeb	oprtn	male	Buner	386647	NULL

## Pat\_Diagnosis Table

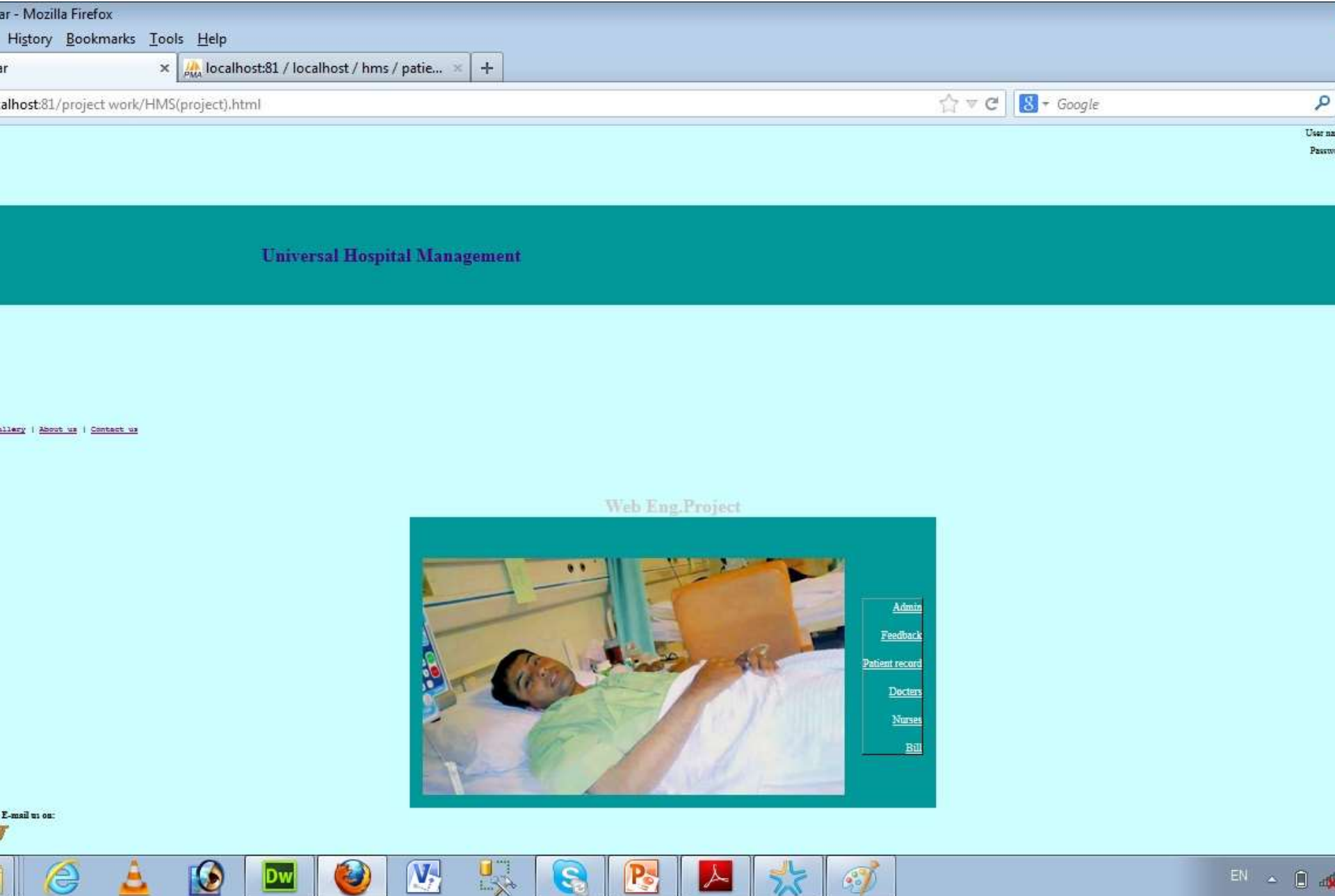
Results		Messages				
	DiagNo	Diagdetails	Remark	Diagdate	Other	pat_id
1	1	fever	serios	2014-06-03 12:29:45.880	admit	NULL
2	2	Heart prob	Well	2014-06-04 20:11:37.350	noadmit	NULL
3	3	Sugar	Well	2014-06-04 20:11:51.520	Diet	NULL
4	4	Kidneyfail	serious	2014-06-04 20:12:27.360	Diet	NULL
5	6	Heartatck	bad	2014-06-04 20:12:57.103	admit	NULL
6	7	Eye	lowsight	2014-06-04 20:13:18.470	oprtn	NULL
7	8	Eye	lowsight	2014-06-04 20:13:31.527	operation	NULL
8	9	headach	well	2014-06-04 20:14:28.797	medcne	NULL
9	10	heart	kzjh	2014-06-04 20:14:41.150	medcne	NULL

## Bill Table

Results		Messages				
	Billno	Patname	Dname	Datetime	Amount	pat_id
1	10	Mowazam	Fatima	2014-06-03 12:08:45.547	900	NULL
2	18	Ali	Hafeez	2014-06-04 19:45:52.600	7000	NULL
3	22	Yasir	Jawad	2014-06-04 19:46:27.920	7000	NULL
4	26	Khan	Basim	2014-06-04 19:46:52.507	600	NULL
5	30	Ashraf	Tahir	2014-06-04 19:47:18.370	600	NULL
6	34	Ajmal	Ahmad	2014-06-04 19:48:07.653	9000	NULL
7	38	Aroon	Hamad	2014-06-04 19:48:24.077	800	NULL
8	42	Afzal	Fazal	2014-06-04 19:48:42.763	3000	NULL
9	46	Sahil	Hilal	2014-06-04 19:49:07.260	2000	NULL
10	50	Mowazam	Fatima	2014-06-04 20:00:30.907	900	NULL



# Web Based Interface





# Conclusion

- The project **Hospital Management System (HMS)** is for computerizing the working in a hospital. The software takes care of all the requirements of an average hospital and is capable to provide easy and effective storage of information related to patients that come up to the hospital.
- It generates test reports; provide prescription details including various tests, check-up and medicines prescribed to patient and doctor. It also provides injection details and billing facility.
- The system also provides the facility of backup as per the requirement.

best wishes

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