

CSE412 Project Phase 1 Intermediate

Group #: 18 Group Name: Vision Score: 23.5

Points	PtDist	Content	Comments
0.25	0.25 pt	Cover Page for the intermediate submission	
0.25	0.25 pt	Table of Content for the intermediate submission	
10	10 pts	Requirements Description <ul style="list-style-type: none"> • Include enterprise/database overview • Completeness of description 	
-4	15 pts	ER diagram with min/max specification <ul style="list-style-type: none"> • Consistency with requirements • Technical correctness 	
2	2 pts	Group Status Report for the intermediate submission	
	Total 27.5	Note: Your individual score recorded on myASU may differ from the group grade due to absences or confidential phase evaluations.	

Requirement	Description	E-R diagram
Patients can check-in by entering name, address, date of birth, gender, social security number, insurance information, medicine that they are allergic to, description of their condition, check in time and date.		✓
Each patient has a status (waiting, being seen, released, paid/checked-out). When a patient checks in, the status becomes waiting.		Status can just be an attribute
Receptionists can view and change information of patients		✓
-1 Based on the condition description of each patient, a receptionist assigns a patient condition level (severe, medium, light)		Not indicated in ER - dig
Based on each patient condition level/check in time, make a queue of (sort) patients		✓
Receptionists can see the status of doctors/nurses (off duty, seeing a patient, available)		✓
Receptionists can send a message to a doctor/nurse		✓
-1 Receptionists can set the payment amount for each patient.		Not indicated in ER dig

-1 Rethink your entities. There is both 'Patient' & 'Patient Information'. It is not correct.

-1 Date of visit & symptoms can be multiple entities. You need a way to store multiple visits of patients. Also, you need a way to link the patient's condition, doctor who treated him, his diagnosis and prescription.

When doctors/nurses are coming to work, change their status from "off duty" to "available"		✓
When doctors/nurses are taking a patient, they change their status from "available" to "seeing a patient", and also change the patient's status from "waiting" to "being seen".		✓
When doctors/nurses are done seeing a patient, they change their status to "available", and also change the patient's status from "being seen" to "released".		✓
When doctors/nurses are leaving from work, they change their status to "off duty"		✓
For each patient that doctors/nurses see, they enter diagnosis and treatment into the patient's record, with date and time		✓
Doctors and nurses can see messages from receptionists.		✓
Admins can create/delete/change accounts for doctors/nurses, and receptionists.		✓
Admins can ask for report on which doctor/nurse treated/saw which patients		✓

PHASE 1: INTERMEDIATE SUBMISSION CHECKLIST/ SIGNOFF SHEET

GROUP #: 18

GROUP NAME: Vision

Intermediate Deliverables:

- ✓ Requirements description
- ✓ ER diagram with min/max specifications

Intermediate Assessment:

- ✓ Group Status Report

	<i>Printed Name</i>	<i>ASUEmail</i>	<i>Signature</i>
Phase Leader	Phung Tran	<u>pttran4@asu.edu</u>	Phung tran
Phase Recorder	Cory Latino	<u>clatino@asu.edu</u>	Cory latino
Phase Checker	Seong Min Kim	<u>smkim6@asu.edu</u>	Simon Kim
Technical Advisor 1	Abdullah Alarabi	<u>aalarab1@asu.edu</u>	Abdullah Alarabi
Technical Advisor 2	Ladapa Chaiyasut	<u>lchaiyas@asu.edu</u>	Ladapa Kate

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1. INTRODUCTION

The main goal of the hospital database system is to construct an effective database system that fulfills the client needs and expectations. The implementation procedures for the database system required specific information from the client to complete. The functional requirements and nonfunctional requirements of the database system are based on the client requirements and descriptions. The visual representation of the client requirements is the ER diagram. The ER diagram implementation references the following book:

Database Systems Concepts

A. Silberschatz, H. Korth and S. Sudarshan, McGraw Hill

2. REQUIREMENTS AND DESCRIPTION OF THE ENTERPRISE/ DATABASE

Hospital Database:

- **Hospital's database** contains the staff and patients branches.

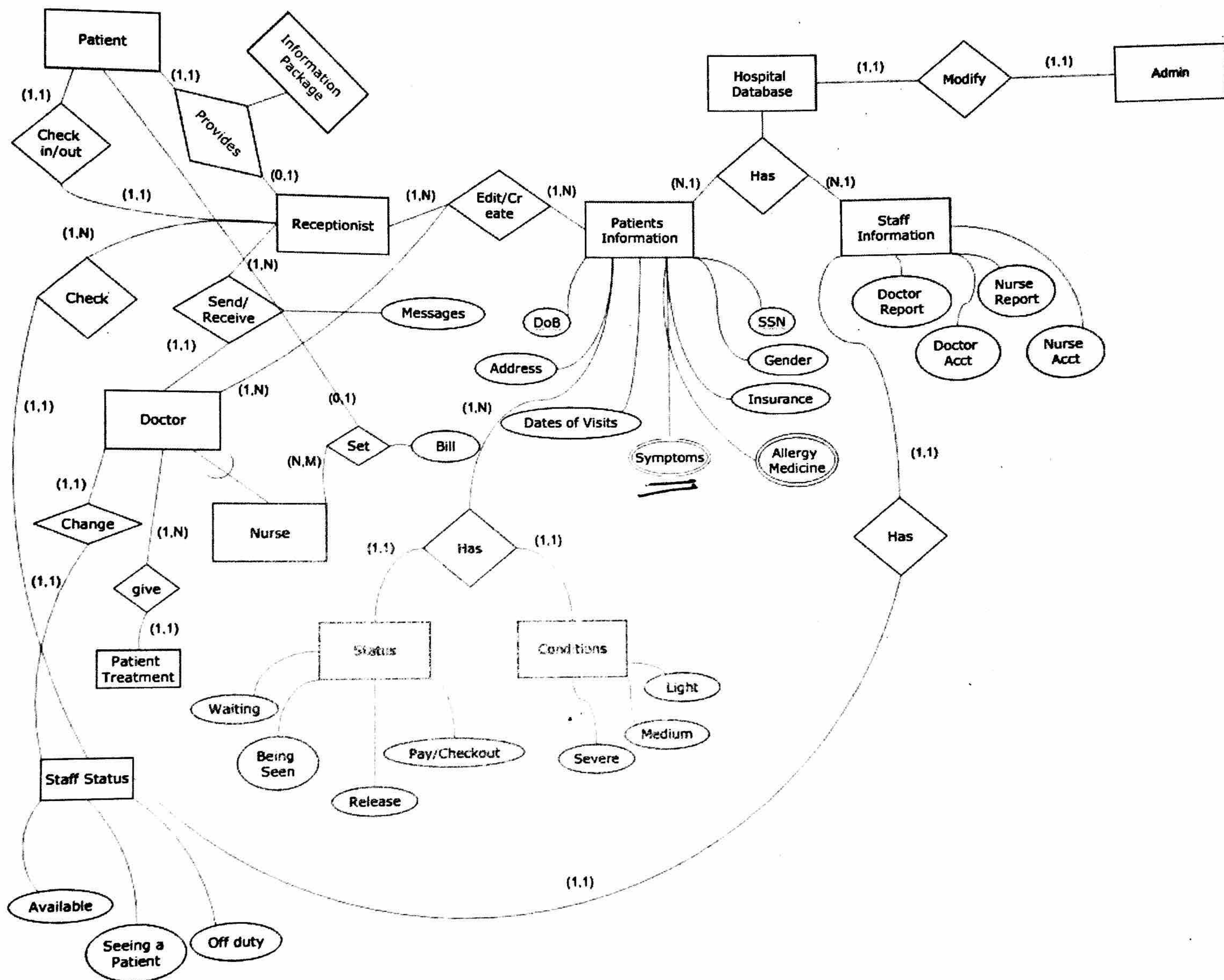
Staff:

- **Doctors & Nurses** have status (patient they are seeing, availability, days they are off duty), they can see the patients for a checkup and prescribe them treatment if needed, and can view the messages from receptionists.
- **Receptionists** can view doctors and nurses statuses, access the status of patients (patient information, condition, waiting period, if they are being seen, payment and checking out, and release), and they can send messages to doctors and nurses.
- **Admins** can change the account information of nurses, report doctors and nurses, view check-in and check-out information, create accounts for doctors and nurses, modify the hospital's database, and check doctors availability.

Patients:

- **Patients** can sign in and out of system and view their SSN, name, date of birth, gender, address, date of visit, insurance, symptoms, condition (light, medium, severe), and status (waiting period, release, being seen, and pay and checkout) which doctors, nurses, and receptionists can view and edit, patients can view their treatments information through nurses, and check their current condition.

3. ER DIAGRAM DESIGN WITH SPECIFICATION



GROUP STATUS REPORT

GROUP #: 18 GROUP NAME: Vision

PHASE #: 1

We have each reviewed the contents of the following group status report:

	<i>Printed Name</i>	<i>Signature</i>
Phase Leader	Phung Tran	Phung tran
Phase Recorder	Cory Latino	Cory Latino
Phase Check	Seong Min Kim	Seong Min Kim
Technical Advisor 1	Abdullah Alarabi	Abdullah Alarabi
Technical Advisor 2	Ladapa Chaiyasut	Ladapa Kate

- Dates & attendance at group meetings in this phase:

Wednesday, August 30, 7:20 p.m. - 7:40 p.m. All group members present.

Wednesday, September 6, 1:00 p.m. - 5:30 p.m. All group members present.

Monday, September 11, 1:00 p.m. - 4:00 p.m. All group members present.

- Overview of progress on project as of September 6, 2017 (date):

The requirement document has been written and the ER diagram has been developed. At this point, we are double check upon the ER diagram to make sure the design contains all the requirements and simple enough to implementation.

- Overview of progress on project as of September 11, 2017 (date):

Transfer the physical ER diagram to SmartDraw. Final overview and agreement on the diagram. Wrap up all the requirements of project phase 1.

- For each group member, indicate in detail the contributions and expected contributions in this phase:

Leader:

- Coordinate details upon meeting and planning the meeting schedule.
- Assist with keeping track of the requirements
- Contribute to design and forming ER diagram.

- Will do a final check on the ER Diagram.

Recorder:

- Write down teams key points, ideas and decisions
- Record facts only

Phase Checker:

- Check the progress of the on going project to ensure that the group members are on schedule to finish in time.
- Check for any errors present

Technical Advisor 1:

- Rewrote and revised requirements and descriptions
- Implemented patient's branch of the ER diagram
- Contributed to designing the final ER diagram

Technical Advisor 2:

- Formed the induction.
- Implemented ER diagram.
- Created documents for deliverable.
- Reviewed database requirements and descriptions.