PROJECT REQUIREMENTS Fall 2016

(As specified by the user)

The project is designed to acquaint the student with working in a team environment, obtaining user requirements, modeling these requirements, and creating a prototype of at least a portion of the system requested. Initially the user requirements are oral with the written requirements supplied at a later date. The intent of this approach is to encourage the student to continue to meet with the user (instructor) in obtaining and clarifying requirements. The team should take notes and write their version of the user requirements. Once this is done, the team should have the user (instructor) to sign off or correct the requirements as they have interpreted them. Emphasis has been placed on keeping the user involved from the beginning to the end of the project and to consult with the user whenever there is a question about any of the specified requirements.

To achieve this goal, the instructor plays two different roles. For example, if the student asks what tables are needed, then the instructor replies: "I'm just a user. I don't understand what you're talking about." However, if the student explains what they are attempting to do and are unclear about what they are doing, then the instructor assumes an instructor or mentors role and assists the student. However, the question is not blindly answered. The answer is supplied referring to material covered in the text and the classroom.

The project is a Patient Record Keeping System that can be used by any small optical business. The owner of the company would like to have the following Reports:

> - **A list of all Patients called "Current Patients"**
>
> - **A list of Doctors providing service and their current Patients "Doctors and Their Patients"**
>
> - **A list of Patients, Their Prescriptions, and Doctor that wrote it "Patient Scripts"**
>
> - **A list of Patients, with No Prescriptions "Retail Customers Only"**
>
> - **A list of Patients with a balance other than zero "Open Patient Accounts"**
>
> - **A list of patients with a balance not zero and past due by more than 30 days "Accounts Past Due"**

The owner of the company would also like to have the following Forms for data entry:

- ➢ **"Sunglasses Sales" (No Prescription Required)**
- ➢ **"Prescription Eyeglasses/Contact Sales"**
- ➢ **New "Doctor" in the area**
- ➢ **New "Customer"**

A method for selecting actions for dong the data entry and report printing that any user can use with minimal training:

Sample Report Layouts

Doctors Current Patients

Dr's Name   **DrCode**
Address   **Home Phone**   **Office Phone**
        Patient Info

ABRAMS   *JOHN*   *1*
12450 MURPHY RD
STAFFORD   *TX*   *77345-*   *(713) 555-1111*

CASEY   *BEN*   *2*
CHANNEL 7
BOSTON   *MA*   *02148-*   *(617) 555-1234*   *(617) 555-1111*

KORMANIK   TODD   (713) 555-1111
1234 HOME STREET   (713) 584-1000

HOUSTON   TX   77079-

MENDEL   DAVID   (713) 270-0759
5255 HARBORTOWN DRIVE
APT 519
HOUSTON   TX   77036-

Patients, Prescriptions, and Doctor

PatientCode   **Dr Code**   **Home Phone Work Phone**   **Last Visit**
Name

ak001   *KEDIA*   *ARUNA*   *77079-*
                             7   *(713) 777-234* *(713) 718-1000*   *3/10/2002*

Rx No. 1   **PRESCRIPTION Dr'sCode 7**   ZORBA   HENRY   (713) 555-0101
           RX_Date 3/8/2002

OD_Sphere	OD_Cylindr	OD_Axis	OD_Prism	OD_Base	OD_Dec	PD_Far	PD_Near
3.25	1.25	180	2.25	1.25	3	3	1

OS_Sphere	OS_Cylndr	OS_Axis	OS_Prism	OS_Base	OS_Dec	Add_OD	Add_OS
1.25	1.25	180	1.75	1	2	0.25	0.5

Inset	Height	Width	Lens_Mtl	Bifocal	Trifocal	Cataract
1	18	20	P	EXECUTIVE		

Dress_Indu	Tint	Eye_Size	Bridge	Temple	Style	Mfg
D	AMBER #2	3.5	2.5	55.6	STRANGE	GUCCI

- -

cr001   *RICHARD*   *CHRIS*   *77088-*
                             11   *(713) 555-696* *(713) 555-9696*   *3/29/2002*

Rx No. 2   **PRESCRIPTION Dr'sCode 11**   EYEBALL   JORE   (305) 555-1400
           RX_Date 3/2/2002

OD_Sphere	OD_Cylindr	OD_Axis	OD_Prism	OD_Base	OD_Dec	PD_Far	PD_Near

Patients- No Prescriptions

Name Address	PatientCode H_Phone	Work_Phone
CHARLES, RAY 1238 TO THE BAR LANE NASHVILLE, TN 56001	rc001 (281) 555-86	
CLYDE, NORMAN 2468 MAIN APT356 HOUSTON, TX 77445	nc001 (713) 555-09	
FOX, DIANNE 12450 FOXCRAFT LANE HOUSTON, TX 77000	df001 (281) 555-97	
FOX, LESTER BRIAR RIDGE DRIVE HOUSTON, TX 77056	lf001 (713) 555-12	(713) 555-2468
GLINA, ROBERT 5415 CHEENA DR HOUSTON, TX 77036	rg001 (713) 723-54	(713) 668-1835

Patients With A Balance

Name Address	PatientCode H_Phone	Work_Phone	Cur Bal:	Last_Pay:
KORMANIK, TODD 1234 HOME STREET HOUSTON, TX 77079	tk001 (713) 555-11	(713) 584-1000	($75.00)	1/1/2002
MENDEL, DAVID 5255 HARBORTOWN DRIVE APT519 HOUSTON, TX 77036	dm001 (713) 270-07		$175.00	5/2/2002
NIMBEL, JACK 2 EATA PIE APT2B NEW YORK, NY 10020	nj001 (212) 567-20		$500.00	4/10/2002
		Total Due:	$600.00	

"Accounts Past Due" Patients past due over 30 days

Same Layout as "Patients With A Balance"

Student is to design these forms based upon information currently in the system, or obtained by analysis:

- ➢ **Customer (New)**
- ➢ **Doctor (New)**
- ➢ **Prescription Eyeglasses/Contact Sales (Doctor and Customer Must Exist)**
- ➢ **Sunglasses Sales (No Prescription Required, Customer Must Exist)**