Requirements and Design

Patient Record Keeping System

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Team 2

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1. Executive Overview

Patient Record Keeping System

This document is a requirements definition for a new Patient Record Keeping System. This platform, known as the Patient Record Keeping System(PRKS), is intended to displace existing business process as the system for Patient Prescription Management for an optical business The goal is to take the features and functions that have made the business a success and deliver a new platform that has the capabilities and features necessary to enable the next generation of innovations that will keep the optics business competitive in the Internet-driven business world.

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# Introduction

The requirements in this document are aimed defining a new Patient Record Keeping System to displace the “manual” platform of the business. Patient Record Keeping System Stakeholders

# Business-centric Features and Requirements

Early in the planning, the set of business-centric features noted below were identified. The business requirement subsections below call out each feature and then list the agreed upon business requirements in a table format.

## Required Business Scenarios

The following table lists the required business scenarios for this component:

| Ref. | Persona | Type | Be able to …. | So that… |
| --- | --- | --- | --- | --- |
| BR-001 | PRKS User | MUST | Patient Record Keeping System (PRKS) will store patient records. Patient records will consist of the following attributes: FirstName, LastName, Code, EntryDate, Address1, Address2, City, State, Zip, HomePhone, WorkPhone, LastVisit, LastPayment, Balance and DaysAged. | Users can access and report on patient information records. |
| BR-002 | PRKS User | MUST | PRKS will provide a user input form for the Patient Records. The form will allow add, edit and delete of Customers/Patients. | Users can add, edit and delete patient/customer records. |
| BR-003 | PRKS User | MUST | PRKS will store doctor records. Doctor records will consist of the following attributes: FirstName, LastName, Code. | Users can access and report on doctor records. |
| BR-004 | PRKS User | MUST | PRKS will provide a user input form for the Doctor records. This form will allow the addition and editing of doctors in the area. |  |
| BR-005 | PRKS User | MUST | PRKS will provide store patient prescriptions. Patient Prescriptions will consist of the following attributes: GlassesCode, PrescriptionNumber, PrescriptionDate, OD\_Sphere, OD\_Cylinder, OD\_Axis,OD\_Prism, OD\_Base, OD\_Dec, PD\_Far, PD\_Near, OS\_Sphere, OS\_Cylinder, OS\_Axis, OS\_Prism, OS\_Base, OS\_DEc, Add\_OD, Add\_OS, Insert, Height, Width, Lens\_Mtd, Bifocal, Trifocal, Cataract, Dress\_Indus, Tint, Eye\_size, Bridge, Temple. | Users can access and report on patient prescription records. |
| BR-006 | PRKS User | MUST | PRKS will provide a user input form for the patient prescription and glass records. | Users can add, edit and delete patient prescription information. |
| BR-007 | PRKS User | MUST | PRKS will store Glasses records. Glass records consist of the following attributes: code, manufacturer, style, price. | Users can access and report on eyeglass records. |
| BR-008 | PRKS User | MUST | PRKS will provide a report that list all of the current patients. The title of the report will be "Current Patients". | Users can report on current patient information. |
| BR-009 | PRKS User | MUST | PRKS will provide a report that will list all doctors providing service and their current patients. The title will be "Doctors and Their Patients". | Users can report on doctors and their current patients. |
| BR-010 | PRKS User | MUST | PRKS will provide a report called "Patient Scripts" that will provide a list of patients, their prescriptions and the doctor that wrote it. | Users can report on doctors, patients and prescriptions. |
|  |  |  |  |  |
| BR-011 | PRKS User | MUST | PRKS will provide a report called "Retail Customers Only" that will be a list of patients with no prescriptions. | Users can report on what customers are retail purchasers only. |
| BR-012 | PRKS User | MUST | PRKS will provide a report called "Open Patient Accounts". Patients with a Current Balance other than zero are considered open. | Users can report on what accounts currently have a balance. |
| BR-013 | PRKS User | MUST | PRKS will provide a report called "Accounts Past Due". Accounts past due are Patients with a Current Balance other than zero that have DaysAged beyond 30. | Users can report on what accounts are past due. |
| BR-014 | PRKS User | MUST | PRKS will provide a "Sunglasses Sales" Form to enter sales for glasses with no prescription. | Users can add, edit and delete sunglass sales information. |
| BR-015 | PRKS User | MUST | PRKS will provide a form for add/edit/deleting sales data for prescription eyeglasses/contact sales. | Users can add, edit and delete patient eyeglass sales information. |
| BR-015 | PRKS User | MUST | A patient with no prescription is a retail customer. | definition |

## Architecture Principles

Prior to the design effort, the core solution team established a set of architectural principles that would guide the solutioning of the Patient Record Keeping System platform. The goal is to convey the overarching, hard won, experiences and learning regarding successful and desirable technology solutions to all parties involved in the design, delivery, operations, or support of the platform. The following table enumerates these architecture principles.

| ID | Name | Statement | Rationale | Implication |
| --- | --- | --- | --- | --- |
| AP01 | Normalize Data |  | Entry, redundancy reduction, storage optimization |  |