

**Patient Information Management System
PIMS**

Team 6

Backlog

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1.0 Project Overview

Hospitals must maintain current information on all patients in the hospital as well as those recently released. This information has to be readily available to a number of hospital personnel such as doctors, nurses, office staff, and volunteers. The Patient Information Management System (PIMS) shall have a Graphical User Interface (GUI) that the users interact with, a database holding patient information, and a server allowing access across multiple machines.

2.0 Features

The Patient Information Management System (PIMS) shall have a Graphical User Interface (GUI) that the users interact with, a database holding patient information, and a server allowing access across multiple machines. The creation of PIMS shall be done using the Agile Project Management System, specifically the Scrum development approach. The Scrum approach breaks up the creation of software into multiple Sprints. Sprint 1 has already been completed. The creation of PIMS shall be completed in Sprints 2-5. PIMS shall be broken down and shall be completed during the remaining Sprints as follows:

Sprint Number	Date To Be Completed	As a <user>	I want to	for/to/of/a(n)	Something
2	02/17/2016	Developer	Design the GUI Frames	To	Allow the information to be displayed in the proper area
4	03/30/2016	Developer	Create the Backend Tables	To	Store various information
4	03/30/2016	Developer	Create the Backend Queries	To	Allow searching for the various information
4	03/30/2016	Developer	Create the Backend Permissions	To	Ensure proper access control
3	03/30/2016	Developer	Create the GUI Frames	For	Allowing the user to interact with PIMS
4	03/30/2016	Developer	Design and Program the Controller to Interact with the GUI	To	Allow the programmer to implement functionality easier
4	03/30/2016	Developer	Design and Program the Controller to Interact with the Backend	To	Allow the programmer to implement functionality easier
4	03/30/2016	Developer	Create the Report Generator	To	Allow the user to create various reports on the patients
5	04/18/2016	Developer	Polish and Cleanup PIMS	To	Make PIMS more user friendly for its users
5	04/18/2016	Developer	Prepare Documentation	To	Streamline the development process

3.0 Epics

3.1 GUI Frames Designed

Verb	Something	for/of/to/a(n)	Something Else
Design	Login screen frame	For	Users to login to PIMS
Design	Main window screen frame	For	Users to search for patients
Design	Patient profile information frame	For	Displaying patient information
Design	Visitor information frame	For	Displaying visitor information
Design	Admittance information frame	For	Displaying admittance information
Design	Insurance information frame	For	Displaying patient insurance information
Design	Billing insurance frame	For	Displaying patient billing information
Design	Scheduled procedures frame	For	Scheduling patient procedures
Design	Doctor's notes frame	For	Displaying doctor's notes
Design	Nurse's notes frame	For	Displaying nurse's notes
Design	Volunteer frame	For	Displaying information volunteers need

3.2 Backend Tables Created

Verb	Something	for/of/to/a(n)	Something Else
Design	ER Model	To	Establish relationships between entities and their respective keys
Create	Login table	For	Storing login information
Create	Staff table	For	Storing staff information
Create	Patient table	For	Storing patient information
Create	Billing table	For	Storing billing information
Create	Insurance table	For	Storing insurance information
Create	Treatment table	For	Storing treatment information
Create	Prescription table	For	Storing prescription information
Create	Location table	For	Storing location information

3.3 Backend Queries Created

Verb	Something	for/of/to/a(n)	Something Else
Create	Patient query	For	Searching through the names and returning basic patient information from the patient table
Create	Login query	For	Searching for assigned usernames and password
Create	Staff query	For	Searching through the staff table for staff members and their positions
Create	Location query	For	Searching through the location table for certain units/rooms/beds in the hospital
Create	Insurance query	For	Pulling up patient's insurance information
Create	Billing query	For	Pulling up patient's billing information
Create	Treatment query	For	Pulling up patient's treatment information
Create	Prescription query	For	Pulling up patient's medication information

3.4 Backend Permissions Created

Verb	Something	for/of/to/a(n)	Something Else
Grant	Permissions to view patient name, room number, and visitor list only	For	Volunteers
Grant	Permission to see/edit patient medical information	For	Doctors
Grant	Permissions to edit/add notes in the doctor's notes	For	Doctors
Grant	Permissions to edit/add notes in the nurse's notes	For	Nurses
Grant	Permissions to see patient medical information	For	Nurses
Grant	Permissions to view/update patient account/billing/insurance information only	For	Office Staff

3.5 GUI Frames Created

Verb	Something	for/of/to/a(n)	Something Else
Create	Login screen frame	For	User to login to PIMS
Create	Main window screen frame	For	User to search for patient
Create	Patient profile information frame	For	Displaying patient information
Create	Visitor information frame	For	Displaying visitor information
Create	Admittance information frame	For	Displaying admittance information
Create	Insurance information frame	For	Displaying patient insurance information
Create	Billing insurance frame	For	Displaying patient billing information
Create	Scheduled procedures frame	For	Scheduling patient procedures
Create	Doctor's notes frame	For	Displaying doctor's notes
Create	Nurse's notes frame	For	Displaying nurse's notes
Create	Volunteer frame	For	Displaying information volunteers need

3.6 Design and Program the Controller to Interact with the GUI

Verb	Something	for/of/to/a(n)	Something Else
Design	Data Structure	To	Represent user
Design	Response	To	Login request
Design	Data structures	To	Match fields in GUI for doctors and medical staff
Design	Data structures	To	Match fields in GUI for office staff
Design	Data structures	To	Match fields in GUI for volunteers
Design	Data structures	For	Reports
Program	Data Structure	To	Represent user
Program	Response	To	Login request
Program	Data structures	To	Match fields in GUI for doctors and medical staff
Program	Data structures	To	Match fields in GUI for office staff
Program	Data structures	To	Match fields in GUI for volunteers
Program	Response	To	Request for data for doctors and medical staff
Program	Response	To	Request for data for office staff
Program	Response	To	Request for data for volunteers
Program	Response	To	Request to write data for doctors
Program	Response	To	Request to write data for medical staff
Program	Response	To	Request to write data for office staff
Program	Data structures	For	Reports
Program	Response	For	Report printing requests

3.7 Design and Program the Controller to Interact with the Backend

Verb	Something	for/of/to/a(n)	Something Else
Add	SQL connection	To	MS SQL database
Design	Function	To	Process login request
Design	Function	To	Process doctor's information requests
Design	Function	For	Process medical staff's information requests
Design	Function	For	Process office staff's information requests
Design	Function	For	Process volunteer's information request
Program	Function	For	Process login request
Program	Function	For	Process doctor's information requests
Program	Function	For	Process medical staff's information requests
Program	Function	For	Process office staff's information requests
Program	Function	For	Process volunteer's information request
Add	Printer framework	For	Printing reports
Design	Function	For	Requesting information to fill and print reports
Program	Function	For	Requesting information to fill and print reports

3.8 Report Generator Created

At this time, we do not know what user stories we will need to implement for this epic. However, we know that this is an epic we will need to implement.

3.9 Polish & Cleanup PIMS

At this time, we do not know what user stories we will need to implement for this epic. However, we know that this is an epic we will need to implement.

3.10 Prepare Documentation

Verb	Something	for/of/to/a(n)	Something Else
Create	Controller UML Diagram	To	Visualize interaction easier
Create	Patient Controller UML Diagram	To	Visualize interaction easier
Create	User Controller UML Diagram	To	Visualize interaction easier
Create	Database UML Diagram	To	Visualize interaction easier
Create	Administrator State Diagram	To	Visualize interaction easier
Create	Volunteer State Diagram	To	Visualize interaction easier
Create	Nurse State Diagram	To	Visualize interaction easier
Create	Doctor State Diagram	To	Visualize interaction easier
Create	Office Staff State Diagram	To	Visualize interaction easier