



Sri Lankan Institute of Information Technology

Information Technology Project (IT2080)

Hospital Management System

Agile Activity Report

KDY_2022_WD_1

Submitted by:

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Introduction

This system is for a hospital, which provides OPD, lab testing, and pharmaceutical services. The major stakeholders of the hospital are patients, doctors, inventory handler, pharmacist, and lab assistant.

There can be several problems faced by hospitals, these include difficulties in recording and keeping patient records, difficulties in managing inventory, and the pharmacy. Since there are issues in recording patients, doctors, staff we are providing a way for the management to record and save these details for long time use.

Name	Epic	Feature	User Story
1. Nissanka N.M.H.H	Login and profile management	Login and profile	<u>User Story 01</u> - As an administrator, I want to give login access to doctors, and all the staff so that they can do their tasks effectively. <u>User Story 02</u> - As a doctor or a staff member I want to edit, or delete my profile, so that I can make any changes that I want.
2. S. P. Munasinghe	Payment and Attaching a card	Payment and Card Attachments	<u>User Story 01</u> - As a patient After I have made an appointment, I should be redirected to payment page so the I can make the correct payments. If a payment is unsuccessful for whatever reason, I should get to make the payment again with error fixed. <u>User Story 02</u> - As a patient After I have given a prescription for the pharmacy and lab test, I should be redirected to payment page so the patient can make the correct

			<p>payments. If a payment is unsuccessful for whatever reason, I should get to make the payment again with error fixed. Same as the appointment.</p> <p><u>User Story 03</u> -As a patient I can add and update a credit/debit card. Also, I can delete an existing card. You can view your payment history.</p>
3. Senevirathne N.O	Manage Patient Treatments.	Adding patient records and viewing patient records. canceling appointments.	<p><u>User Story 01</u> - As a doctor, I want to view the patient's previous records, so that I can offer the patient the best treatments.</p> <p><u>User Story 02</u> - As a doctor, I want to insert the new patient's condition into the system, so that I can view that record anytime that I want.</p> <p><u>User Story 03</u> - As a doctor, I want to view and cancel my appointments, so that I can notify the patients about the cancellation.</p>
4. Kumari J.M.D	Managing medications	Adding medicine details , View and arrange prescribed medicines , notifying patients	<p><u>User Story 01</u> - As a Pharmacist I want to insert, update and delete medicine details So that I can view records of current medicines.</p> <p><u>User Story 02</u> - As a Pharmacist I want to receive prescriptions, So that I can arrange prescribed medicines before the patient arrives.</p> <p><u>UserStory03</u> - As the Pharmacist I want to issue medicines and check status of the payment So that after I can notify the patient to collect it.</p>

5. Abeyrathne A.P.T.G.H.N	Manage currently available lab report details.	Update patient's lab report status	<p><u>User story 01</u> - As a laboratory assistant, I want to add, update, and delete lab report details which are provided by the laboratory so that I can display the names of the lab reports provided by the laboratory immediate.</p> <p><u>User story 02</u> - As a laboratory assistant, I want to draw blood sample from patient for lab test so that I can request it from laboratory.</p> <p><u>User story 03</u> - As a laboratory assistant, I want to send an email that the lab report has been received after receiving the patient's report so that I can notify the patient.</p>
6. Dissanayake D.M.T.K	Manage Appointment details.	<p>Adding appointment details and viewing appointment details.</p> <p>Notifying doctors and patients.</p>	<p><u>User story 01</u>- As an administrator, I want to access all the booked appointments so that I can notify the doctor and the patient.</p> <p><u>User story 02</u>- As an administrator, I want to access all the appointment details so that I can add, delete, and update appointments.</p> <p><u>User story 03</u>- As an administrator, I want to check the status of the payment so that I can notify the patient.</p>
7. Kiriella K.G.A.K	Manage stock details.	Update the stock items and delete damaged items	<p><u>User Story 01</u> - As an Inventory manager, I want to check the current stock and get the report items so, that prevent the item goes out of stock.</p> <p><u>User Story 02</u> - As an Inventory manager, I want to add new items</p>

			<p>so, that I can get the price and the quantity of that item.</p> <p><u>User Story 03</u> - As an Inventory manager, I want to add supplier Details so, that I can buy requested items which are not available in the stock.</p>
8. M.M.S.B. Wijesooriya	Patient profile management	Patient account Registration, edit and delete patient information, viewing patient records	<p><u>User Story 01</u> – As a patient, I want to create an account and login so I can see all my records in a one place. (Appointments, prescriptions, and payment records etc.)</p> <p><u>User Story 02</u> – As a patient, I want to edit or delete my profile information If I made a typo during registration.</p> <p><u>User Story 03</u> – As a patient, I want to search doctor's name & specialty. So, I can get an idea of which doctor I should choose.</p>
9. Wimalasooriy a S.A.N	Handling Complain and FAQ Section	Complain Section and FAQ Section	<p><u>User Story 01</u>- As a feedback manager I need the functionality of searching complains by patient id so that it is easy to find related complain.</p> <p><u>User Story 02</u> - As a feedback manager I need the functionality of deleting, updating so that I can keep only necessary complains.</p> <p><u>User Story 03</u> - As a feedback manager I need the ability to access FAQ sections regularly so that I can update it with up-to-date issues.</p>

Product Backlog

ID	User Story	Priority	Estimated Hours	Status
8.1	<u>User Story 01</u> – As a patient, I want to create an account and login so I can see all my records in a one place. (Appointments, prescriptions, and payment records etc.)	01	45h	Not started
8.2	<u>User Story 02</u> – As a patient, I want to edit or delete my profile information If I made a typo during registration.	02	48h	Not started
8.3	<u>User Story 03</u> – As a patient, I want to search doctor's name & specialty. So, I can get an idea of which doctor I should choose.	03	30h	Not started
6.1	<u>User story 01</u> - As an administrator, I want to access all the booked appointments so that I can notify the doctor and the patient.	04	40h	Not started
6.2	<u>User story 02</u> - As an administrator, I want to access all the appointment details so that I can add, delete, and update appointments.	05	30h	Not started
6.3	<u>User story 03</u> - As an administrator, I want to check the status of the payment so that I can notify the patient.	06	38h	Not started
1.1	<u>User Story 01</u> - As an administrator, I want to give login access to doctors, and all the staff so that they can do their tasks effectively.	07	50h	Not started
1.2	<u>User Story 02</u> - As a doctor or a staff member I want to edit, or delete my profile, so that I can make any changes that I want.	08	40h	Not started
3.1	<u>User Story 01</u> - As a doctor, I want to view the patient's previous records, so that I can offer the patient the best treatments.	09	30h	Not started
3.2	<u>User Story 02</u> - As a doctor, I want to insert the new patient's condition into the system, so that I can view that record anytime that I want.	10	48h	Not started

3.3	<u>User Story 03</u> - As a doctor, I want to view and cancel my appointments, so that I can notify the patients about the cancellation.	11	35h	Not started
2.1	<u>User Story 01</u> - As a patient After I have made an appointment, I should be redirected to payment page so the I can make the correct payments. If a payment is unsuccessful for whatever reason, I should get to make the payment again with error fixed.	12	40h	Not started
2.2	<u>User Story 02</u> - As a patient After I have given a prescription for the pharmacy and lab test, I should be redirected to payment page so the patient can make the correct payments. If a payment is unsuccessful for whatever reason, I should get to make the payment again with error fixed. Same as the appointment.	13	40h	Not started
2.3	<u>User Story 03</u> -As a patient I can add and update a credit/debit card. Also, I can delete an existing card. You can view your payment history.	14	36h	Not started
5.1	<u>User story 01</u> - As a laboratory assistant, I want to add, update, and delete lab report details which are provided by the laboratory so that I can display the names of the lab reports provided by the laboratory immediate.	15	48h	Not started
5.2	<u>User story 02</u> - As a laboratory assistant, I want to draw blood sample from patient for lab test so that I can request it from laboratory.	16	35h	Not started
5.3	<u>User story 03</u> - As a laboratory assistant, I want to send an email that the lab report has been received after receiving the patient's report so that I can notify the patient.	17	40h	Not started
4.1	<u>User Story 01</u> - As a Pharmacist I want to insert, update, and delete medicine details So that I can view records of current medicines.	18	45h	Not started
4.2	<u>User Story 02</u> - As a Pharmacist I want to receive prescriptions, So that I can arrange prescribed medicines before the patient arrives.	19	32h	Not started

4.3	<u>UserStory03</u> - As the Pharmacist I want to issue medicines and check status of the payment So that after I can notify the patient to collect it.	20	30h	Not started
7.1	<u>User Story 01</u> - As an Inventory manager, I want to check the current stock and get the report items so, that prevent the item goes out of stock.	21	35h	Not started
7.2	<u>User Story 02</u> - As an Inventory manager, I want to add new items so, that I can get the price and the quantity of that item.	22	49h	Not started
7.3	<u>User Story 03</u> - As an Inventory manager, I want to add supplier Details so, that I can buy requested items which are not available in the stock.	23	45h	Not started
9.1	<u>User Story 01</u> - As a feedback manager I need the functionality of searching complains by patient id so that it is easy to find related complain.	24	40h	Not started
9.2	<u>User Story 02</u> - As a feedback manager I need the functionality of deleting, updating so that I can keep only necessary complains.	25	35h	Not started
9.3	<u>User Story 03</u> - As a feedback manager I need the ability to access FAQ sections regularly so that I can update it with up-to-date issues.	26	35h	Not started

Sprint Backlog

1st Sprint -

Priority	User Story	Product backlog item	Estimated hours	ID
01	<u>User Story 01</u> – As a patient, I want to create an account and login so I can see all my records in a one place. (Appointments, prescriptions, and payment records etc.)	<ul style="list-style-type: none">• Create a database and relevant tables• Create a login interface	45h	8.1
02	<u>User Story 02</u> – As a patient, I want to edit or delete my profile information If I made a typo during registration.	<ul style="list-style-type: none">• Implement update, delete functions	48h	8.2
03	<u>User Story 03</u> – As a patient, I want to search doctor's name & specialty. So, I can get an idea of which doctor I should choose.	<ul style="list-style-type: none">• Implement search function	30h	8.3

2nd Sprint -

Priority	User Story	Product backlog item	Estimated hours	ID
04	<u>User story 01</u> - As an administrator, I want to access all the booked appointments so that I can notify the doctor and the patient.	<ul style="list-style-type: none">• Implement search function	40h	6.1
05	<u>User story 02</u> - As an administrator, I want to access all the appointment details so that I can add, delete, and update appointments.	<ul style="list-style-type: none">• Implement add, update, delete functions• Create a database and relevant tables	30h	6.2
06	<u>User story 03</u> - As an administrator, I want to check the status of the payment so that I can notify the patient.	<ul style="list-style-type: none">• Read operation to get relevant details	38h	6.3

3rd Sprint –

Priority	User Story	Product backlog item	Estimated hours	ID
07	<u>User Story 01</u> - As an administrator, I want to give login access to doctors, and all the staff so that they can do their tasks effectively.	<ul style="list-style-type: none"> Create database with relevant details Create login function 	50h	1.1
08	<u>User Story 02</u> - As a doctor or a staff member I want to edit, or delete my profile, so that I can make any changes that I want.	<ul style="list-style-type: none"> Implement update, delete function 	40h	1.2

4th Sprint –

Priority	User Story	Product backlog item	Estimated hours	ID
09	<u>User Story 01</u> - As a doctor, I want to view the patient's previous records, so that I can offer the patient the best treatments.	<ul style="list-style-type: none"> Read operation 	30h	3.1
10	<u>User Story 02</u> - As a doctor, I want to insert the new patient's condition into the system, so that I can view that record anytime that I want.	<ul style="list-style-type: none"> Update operation, to update patient table 	48h	3.2
11	<u>User Story 03</u> - As a doctor, I want to view and cancel my appointments, so that I can notify the patients about the cancellation.	<ul style="list-style-type: none"> Read and delete operation 	35h	3.3

5th Sprint -

Priority	User Story	Product backlog item	Estimated hours	ID
12	<u>User Story 01</u> - As a patient After I have made an appointment, I should be redirected to payment page so the I can make the correct payments. If a payment is unsuccessful for	<ul style="list-style-type: none"> Navigation operation 	40h	2.1

	whatever reason, I should get to make the payment again with error fixed.			
13	<u>User Story 02</u> - As a patient After I have given a prescription for the pharmacy and lab test, I should be redirected to payment page so the patient can make the correct payments. If a payment is unsuccessful for whatever reason, I should get to make the payment again with error fixed. Same as the appointment.	<ul style="list-style-type: none"> • Read operation • Navigation operation 	40h	2.2
14	<u>User Story 03</u> -As a patient I can add and update a credit/debit card. Also, I can delete an existing card. You can view your payment history.	<ul style="list-style-type: none"> • Create database with relevant details • Implement add, update, and delete function • Read operation 	36h	2.3

6th Sprint –

Priority	User Story	Product backlog item	Estimated hours	ID
15	<u>User story 01</u> - As a laboratory assistant, I want to add, update, and delete lab report details which are provided by the laboratory so that I can display the names of the lab reports provided by the laboratory immediate.	<ul style="list-style-type: none"> • Create database with relevant details • Implement add, update, and delete function • Read operation 	48h	5.1
16	<u>User story 02</u> - As a laboratory assistant, I want to draw blood sample from patient for lab test so that I can request it from laboratory.	<ul style="list-style-type: none"> • Read operation • Implement a search function 	35h	5.2
17	<u>User story 03</u> - As a laboratory assistant, I want to send an email that the lab report has been received after receiving the patient's report so that I can notify the patient.	<ul style="list-style-type: none"> • Read operation • Implement an update function 	40h	5.3

18	<u>User Story 01</u> - As a Pharmacist I want to insert, update, and delete medicine details So that I can view records of current medicines.	<ul style="list-style-type: none"> • Create database with relevant details • Implement add, update, and delete function • Read operation 	45h	4.1
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7th Sprint –

Priority	User Story	Product backlog item	Estimated hours	ID
19	<u>User Story 02</u> - As a Pharmacist I want to receive prescriptions, So that I can arrange prescribed medicines before the patient arrives.	<ul style="list-style-type: none"> • Implement an update function • Read operation 	32h	4.2
20	<u>UserStory03</u> - As the Pharmacist I want to issue medicines and check status of the payment So that after I can notify the patient to collect it.	<ul style="list-style-type: none"> • Read operation to get relevant details 	30h	4.3
21	<u>User Story 01</u> - As an Inventory manager, I want to check the current stock and get the report items so, that prevent the item goes out of stock.	<ul style="list-style-type: none"> • Read operation 	35h	7.1
22	<u>User Story 02</u> - As an Inventory manager, I want to add new items so, that I can get the price and the quantity of that item.	<ul style="list-style-type: none"> • Create database with relevant details • Implement add, update, and delete function • Implement a search function 	49h	7.2

8th Sprint –

Priority	User Story	Product backlog item	Estimated hours	ID
23	<u>User Story 03</u> - As an Inventory manager, I want to add supplier Details so, that I can buy requested	<ul style="list-style-type: none"> • Create database with relevant details 	45h	7.3

	items which are not available in the stock.	<ul style="list-style-type: none"> Implement add, update, and delete function 		
24	<u>User Story 01</u> - As a feedback manager I need the functionality of searching complains by patient id so that it is easy to find related complain.	<ul style="list-style-type: none"> Implement a search function 	40h	9.1
25	<u>User Story 02</u> - As a feedback manager I need the functionality of deleting, updating so that I can keep only necessary complains.	<ul style="list-style-type: none"> Create database with relevant details Implement add, update, and delete function 	35h	9.2
26	<u>User Story 03</u> - As a feedback manager I need the ability to access FAQ sections regularly so that I can update it with up-to-date issues.	<ul style="list-style-type: none"> Read operation 	35h	9.3

