

# **Usecase summary**

**Project Name:** healthapp.yaksha app – Medical Record Management System

**Use Case Summary:** healthapp.yaksha is a healthcare application designed to manage Electronic Medical Records (EMR). it allows users to view, search, and manage patient records. It features functionality such as adding/editing patient records, filtering data by doctor and department, and exporting records. The primary use case is to automate the process of medical record management, ensuring efficient and reliable operations for healthcare providers.

## **Technology Stack:**

Automation Tool: Cypress (for testing)

#### **Key Features:**

- Patient Record Management: Add, edit, and delete patient records.
- Filtering and Search: Search medical records by date range, doctor, department, and more.
- Export Functionality: Export records for offline access.

#### **Expected Outcomes:**

- Automate key healthcare operations like patient record handling, filtering, and validation.
- Ensure the accurate retrieval and modification of medical records, enhancing operational efficiency.

## Overview of the application

## Pages/Features:

- 1. **Login/Registration**: For user authentication.
- 2. Dashboard: Main page displaying patient records.
- 3. Patient Records: Add, edit, delete, and view records.
- 4. Appointment Scheduling: Manage patient appointments.
- 5. **Search/Filter**: Filter records by various parameters (e.g., doctor, date).

#### **Project Information:**

• **Use Case**: Aimed at simplifying EMR management, enhancing healthcare record accessibility, and enabling easy interaction with patient data for healthcare providers

Please use the Application URL

https://healthapp.yaksha.com

## Here's a detailed table format for the test cases to be tested

We have placed an excel file on desktop along with this file containing few fields which should be used while implementing.

Test Case No.	Test Case Name	Precondition	Steps	Expected Result
			1. Navigate to	The user should be
1	Verify Login with	User is on the login	https://healthapp.yaksha.com/Home/Index#	successfully logged in and
	Valid Credentials	page	2. Enter username as admin.	redirected to the dashboard
		https://healthapp.	3. Enter password as pass123.	or homepage after login.
		yaksha.com	4. Click the login button.	

5.

2	Verify Page Navigation and Load Time for Billing Counter	User logged in	<ol> <li>Go to Sidebar Toggler -&gt; Utilities -&gt; Change Billing Counter.</li> <li>Verify the URL is:         https://healthapp.yaksha.com/Home/Index#/Utilities/ChangeBillingCounter     </li> <li>Measure the page load time.</li> <li>Assert that the page load time is within the acceptable threshold e.g 3 seconds.</li> </ol>	The billing counter page should load within the acceptable timeframe. Page loaded successfully
3	Patient Search with Valid Data for appointment page	User logged in.	<ol> <li>Go to Sidebar Toggler -&gt; Appointment.</li> <li>Click on the first counter (New-1).</li> <li>Navigate to Sidebar Toggler -&gt; Appointment -&gt; Book Appointment.</li> <li>Verify the URL is:         https://healthapp.yaksha.com/Home/Index#/Appointment/CreateAppointment     </li> <li>Enter valid patient data (from Excel). (read values from excel i.e patientName1).</li> <li>Submit search and verify results.</li> </ol>	The correct patient search results should be displayed.
4	Activate Counter in Dispensary	User logged in.	<ol> <li>Go to Sidebar Toggler -&gt; Dispensary.</li> <li>Verify the URL is:         https://healthapp.yaksha.com/Home/Index#/Dispensary/ActivateCounter         Click "Activate Counter" button. (anyone from 3 i.e Morning or Evening or Night counter).         Navigate to Sidebar Toggler -&gt; Dispensary -&gt; Counters.         You can view the tile with the message "You have activated the counter and the current activated counter is" and the counter you have selected.     </li> </ol>	
5	Purchase Request List Load	User logged in	<ol> <li>Go to Sidebar Toggler -&gt; Procurement -&gt; Purchase Request.</li> <li>Verify the URL is: https://healthapp.yaksha.com/Home/Index#/ProcurementMain/PurchaseRequest/PurchaseRequestList</li> <li>Select a date one year past the current date and click OK.</li> <li>Verify the purchase request list page loads successfully.</li> </ol>	
6	Lab Dashboard Data Validation	User logged in.	<ol> <li>Go to Sidebar Toggler -&gt; Laboratory.</li> <li>Verify URL:         https://healthapp.yaksha.com/Home/Index#/Lab/Dash board         Validate dashboard data (e.g., "Test Requests till Date = 4").         Compare displayed values with expected data for validation.     </li> </ol>	The lab dashboard should display accurate and up- to-date data.
7	Handle Alert on Billing Counter	User logged in.	<ol> <li>Go to Sidebar Toggler -&gt; Utilities -&gt; Change Billing Counter.</li> <li>Verify URL:         https://healthapp.yaksha.com/Home/Index#/Utilities/ChangeBillingCounter     </li> <li>Deactivate the counter.</li> <li>Handle alert using Cypress's dialog handling.</li> <li>Go to Index page.</li> <li>Verify the application works as expected.</li> </ol>	The alert should be handled successfully without causing test failure.

Testing for Patient Search   2. Verify the URL is: https://healthappyaksha.com/Home/Index#/Patient/S rom the excel file.	8	Data-Driven	User logged in.	1. Go to Sidebar Toggler -> Patient -> Search Patient.	Patient search should work
Patient Search    Patient Search					
### Search    S. Read patient data from Excel (e.g., patientName1, patientName2).		-		· ·	
PatientName2 , 4. Validate search results for all patients.					
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Sequest List				4. Validate search results for all patients.	
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Nerify Locator   Strategy for Appointment   Search			User logged in.		
International data range (FromDate > ToDate).					
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Verify Sorting by   User logged in.					
S. Validate that the error message is displayed correctly and logged successfully.   Verify Sorting by Hospital Number in Patient Search					
And logged successfully.   Sorting worked correctly;					
Verify Sorting by   User logged in.					
In Patient Search   2. Verify the URL is: https://healthapp.yaksha.com/Home/Index#/Patient/S earchPatient   3. Click on the "Hospital Number" column header.   4. Capture the list of hospital numbers displayed.   5. Validate the numbers are sorted numerically.   6. Log the results.   1. Go to Sidebar Toggler -> Appointment -> New Visit.   The correct locators should be used, and the patient list activated.   1. Go to Sidebar Toggler -> Appointment -> New Visit.   1. Go to Sidebar Toggler -> Appointment -> New Visit.   1. Go to Sidebar Toggler -> Appointment -> New Visit.   1. Go to Sidebar Toggler -> Appointment -> New Visit.   1. Go to Sidebar Toggler -> Inventory   4. Injust search bar.   4. Injust search cirteria into the located element by reading data from external excel file (patientName1).   5. Perform the search.   6. Assert that displayed patient list matches search cirteria.   7. Log the results in Excel file.   1. Go to Sidebar Toggler -> Inventory -> Stock.   1. Go to Sidebar Toggler -> Inventory -> Stock.   1. Go to Sidebar Toggler -> Inventory -> Stock List   1. Go to Sidebar Toggler -> Inventory -> Stock List   1. Go to Sidebar Toggler -> Inventory -> Stock List   1. Go to Sidebar Toggler -> Inventory -> Stock List   1. Go to Sidebar Toggler -> Inventory -> Stock List   1. Go to Sidebar Toggler -> Inventory -> Stock List   1. Go to Sidebar Toggler -> Inventory -> Stock   1. Go to Sidebar Toggler -> Inventory -> Stock List   1. Go to Sidebar Toggler -> Inventory -> Stock List   1. Go to Sidebar Toggler -> Inventory -> Stock List   1. Go to Sidebar Toggler -> Inventory -> Stock List   1. Go to Sidebar Toggler -> Inventory -> Stock List   1. Go to Sidebar Toggler -> Inventory -> Stock ->   1. Go to Sidebar Toggler -> Inventory -> Stock ->   1. Go to Sidebar Toggler -> Inventory -> Stock ->   1. Go to Sidebar Toggler -> Inventory -> Stock ->   1. Go to Sidebar Toggler -> Inventory -> Stock ->   1. Go to Sidebar Toggler -> Inventory ->   1. Go to Sidebar Toggler -> Inventory ->   1. Go to Sidebar Tog	10	Verify Sorting by	User logged in.	,	Sorting worked correctly;
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4. Click on "Close Account" button. 5. Then click on "Yes".	13	Closing Account			
5. Then click on "Yes".					
La colore de la colore de colores.				6.Capture any exceptions in or errors.	

	Web Element	User logged in.	1. Go to Sidebar Toggler -> Procurement -> Reports.	The correct data should be
	Handling for	Osci logged III.	2. Click on "Current Stock Level".	displayed based on the
14	Dropdowns in			selected filter from the
-	Purchase		https://healthapp.yaksha.com/Home/Index#/Procurem	
	Request		entMain/Reports/Stock/StockLevel	dropuowii ilielia.
	Request		3. Select a specific item (e.g., "Accounts") from the item	
			filter dropdown.	
			4. Apply the filter.	
			5. Verify that the displayed stock level report includes	
			only items from the selected store name.	
			6. Log the results of the validation in an excel file.	
4 =	- 1		1. Go to Sidebar Toggler -> Procurement -> Purchase	
15	Form and			Appropriate error
	Error Messages	User is logged in.	2. Verify the URL is:	messages are displayed for
			https://healthapp.yaksha.com/Home/Index#/Procurem	missing or invalid inputs.
			entMain/PurchaseOrder/PurchaseOrderAdd	
			3. Attempt to submit the Purchase Order form with	
			missing or invalid values in required fields (e.g give	
			invalid currency code).	
			4. Capture and verify the error messages displayed.	
			5. Repeat the test for different invalid input scenarios.	
			<ol><li>Log the results of the validation in an excel file.</li></ol>	
16	Verify Handling	User is logged in.	1.Go to Sidebar Toggler -> Social Service.	The test should successfully
	of Frames on		https://healthapp.yaksha.com/Home/Index#/SSU/Patie	locate the frame, interact
	Patient List Page		ntList	with elements inside it,
			2.Search for any patient name by reading data from	Frame switching and
			external excel file (patientName1) in "edit information	interactions worked as
			of" field.	expected.
			3. Select the patient and validate the patient's name in	·
			the newly opened frame.	
			4. Write the Cypress code to navigate to pervious to	
			page.	
			5.Log the results of the validation in an excel file.	
	Verify Handling	User logged in.	1. Go to Sidebar Toggler -> Reports.	The test should successfully
	of Tabs for Billing		2. Verify the URL is :	switch between tabs, interact
	Reports and		https://healthapp.yaksha.com/Home/Index#/Reports	with elements on each report
	Other Reports		2.Click on different tabs like "Admission", "Billing	tab, and verify that the
17	Other Reports		Reports", "Appointments" etc.	correct data is displayed.
l' /			3.And check if they are switchable (e.g Appointment,	correct data is displayed.
	Varify Handling	Usar is lagged :-	Radiology, Lab, Doctors, and Patient reports.)	The penus should be
		User is logged in.	1. Go to Sidebar Toggler -> Laboratory -> Settings.	The popup should be
	of Popups for		2. Verify the URL is:	successfully captured and
	Changing		https://healthapp.yaksha.com/Home/Index#/Lab/Setti	
	BillingCounter		ngs/LabTest	either accept or dismiss the
18			2.Perform an action that triggers a popup (e.g.,	popup as required.
			selecting add new lab test).	
			3. Capture and handle the popup using Cypress's dialog	
			handling or dismiss the popup.	

## **EXPECTATIONS:**

Learners will gain experience in building strongly-typed applications using Typescript and managing it's data flow. They'll learn how to define interfaces, use types for error prevention, and improve code maintainability.

## app. Key skills include:

- Browser Automation: Interacting with web elements and testing multiple browsers.
- Assertions & Validations: Ensuring app behavior meets expected results.

• End-to-End Testing: Automating real user interactions and validating overall app functionality.

## IMPLEMENTATION/FUNCTIONAL REQUIREMENT

- 1.1 CODE QUALITY/OPTIMIZATIONS
  - 1. Associates should have written clean code that is readable.
  - 2. Associates need to follow SOLID programming principles.

## **Execution Steps**

- 1. Create a folder on desktop with name as of your email id to put all your deliverables.
- 2. Open command prompt and navigate to folder you created on desktop and execute below commands:
  - a. Setup cypress by installing it in project

npm init cypress -save-dev

- 3. Please configure your test cases to run on Chrome browser.
- 4. Create test file for each test case or combine them into one file for easier execution e.g healthapptest.spec.js
- 5. Run all test cases:

Open cypress test runner

If you want to run test interactively in Cypress Test Runner, use the following command:

npx cypress open

This will open the Cypress Test Runner GUI. From here, you can:

- Select the testing environment (E2E Testing).
- Click on your test file (e.g health\_app.spec.js) to run test separately