Bahmni Patient Portal

This is a concept note document for Bahmni Patient Portal. Bahmni is an Open Source Hospital Management System Licensed under AGPL License. For more details please refer to http://www.bahmni.org.

Note
PUBLICLY VIEWABLE DOCUMENT
Document Status: Under Research

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Module 1: Introduction

Overview :

Historically, Bahmni has provided extensive health management services majorly on the provider side, working with hospitals, clinics and laboratories. This patient portal is one of many initiatives to expand the scope of Bahmni to integrate patient-side services into

the Bahmni ecosystem. Patient portals can be a vital tool to improve patient engagement and result in improved health outcomes.

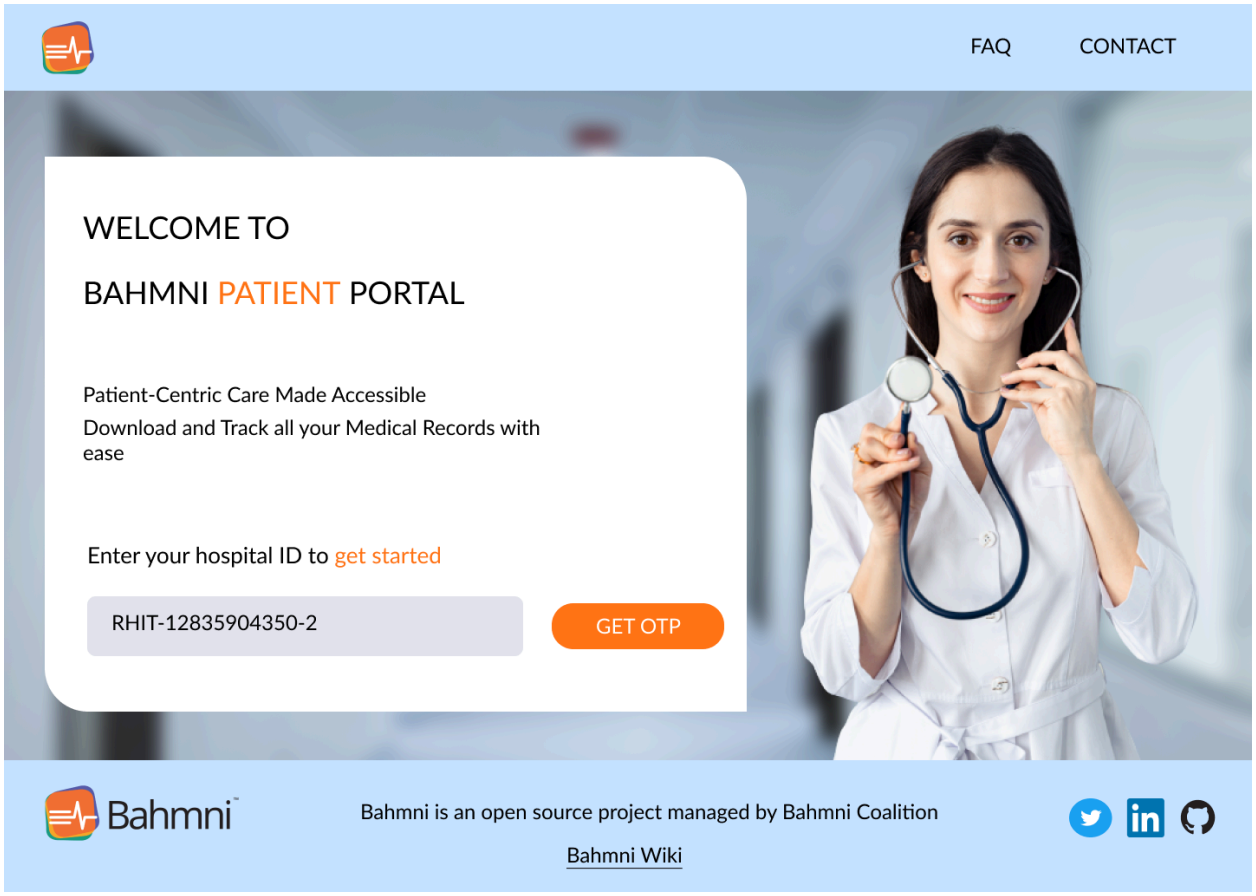
This patient portal project will focus on enabling patients who are previously registered with/have visited the hospital to view their visits and access their medical records. The portal will provide a comprehensive overview of the visit history of the patient and the medical records associated with each visit in a digital format. For better accessibility and offline availability, the medical records can be exported as a pdf document as well.

Who is it for :

The patient portal will be a patient-centric application, with the registered patients of a provider such as a hospital or clinic as the primary users. This will help expand the scope of Bahmni to include patients as well, providing a more holistic hospital management service to providers. This portal will allow them to blend the patient centric capabilities of Bahmni into their existing Bahmni implementation.

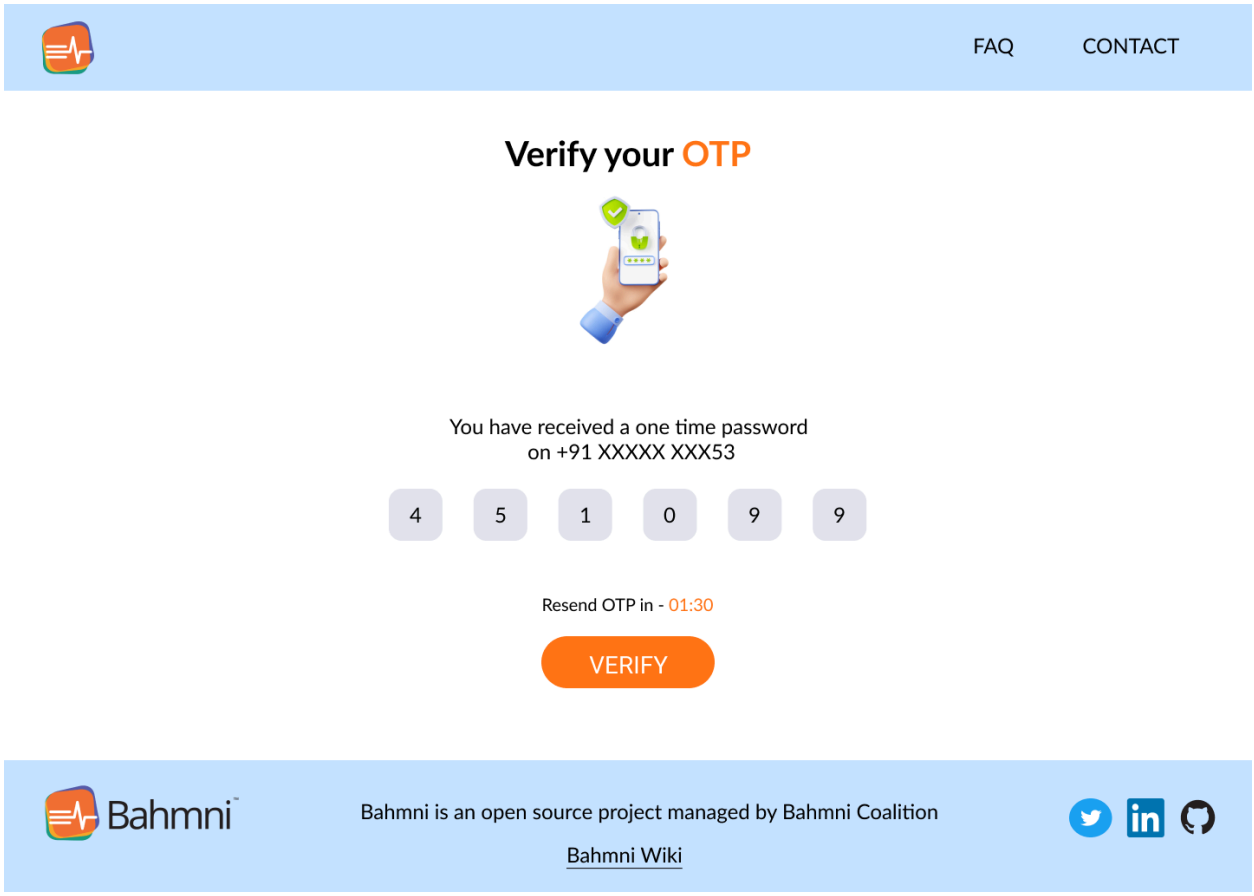
Why is it helpful :

With the instances of Bahmni implementation expanding from low resource areas to major urban centers across countries, there is a need to expand its current services to include patients into the hospital management journey as well. Patients in major urban areas are accustomed to having patient-centric medical services like tele-consultation, appointment booking, access to digital records and more. As Bahmni instances continue to grow, the patient portal will be an initiative that will help providers cater to patient needs by allowing them to view their visits and securely access their medical records. Overall, this patient portal can help increase patient engagement, and give patients convenient access to personal health information.



Step 2 : Validate the OTP

The OTP entered by the user will be validated and the user will be given access to the portal



Step 3: Home Page

The home page will provide a comprehensive overview of all the previous visits of the patient to the facility along with primary details

FAQ CONTACT

WELCOME NUPOOR

pres X SEARCH FILTER

Date	Visit Name	Type
26/07/2023	Prescription Updates, Routine Checkup, Lab Report Collection	OPD
26/07/2023	Prescription Updates, Routine Checkup, Lab Report Collection	EMERGENCY
26/07/2023	Prescription Updates, Routine Checkup, Lab Report Collection	IPD
26/07/2023	Prescription Updates, Routine Checkup, Lab Report Collection	LAB
26/07/2023	Prescription Updates, Routine Checkup, Lab Report Collection	PHARMACY

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26/07/2023	Prescription Updates, Routine Checkup, Lab Report Collection	PHARMACY

X

Date

26/07/2023

Type

- (•) IPD
- ( ) OPD
- ( ) Emergency
- ( ) Lab
- ( ) Pharmacy

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Step 3: Visit Details and Record Details Page

This page will display the necessary visit information, along with all the medical records associated with the particular visit.

Module 5 : User Stories

1) User Onboarding

- Creating the login and otp page on the frontend
- Configuring the backend microservice to fetch patient details, validate the user
- Generating, sending, verifying the OTP to log the user into the application

2) Fetching user visit history

- Creating the visit page consisting of the entire visit history of the user, this will serve as the home page of the application
- Creating the individual visit pages to show up minimal visit details like date, type, time.
- Creating backend services to fetch visit details

3) Fetching medical records (using FHIR)

- Fetching all the medical records associated with a particular visit
- Rendering the records and displaying the details
- Including the ability to preview the records and download them as a pdf document

4) Adding a CI/CD workflow, Docker Image build

- Once the frontend and backend services are completed satisfactorily, we can implement CI/CD workflows, tests, and publish Docker Images, subject to further discussion