Documentation – Sprint 1 (Notifications Feature)

1. Feature Name

Basic Notifications (Admin → Patient)

2. Overview

This feature allows the admin to create and publish notifications that are sent to patients. Patients can view these notifications in their dashboard and mark them as read.
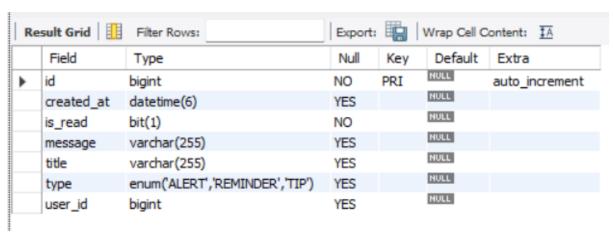
3. Objectives

- Provide a way for admins to send important updates to patients.

- Ensure patients do not miss critical healthcare information.

- Enable patients to manage their notifications (read/unread).

4. Scope (Sprint 1)

- **Admin:** Can create notifications with a message and type (appointment, prescription, general).

- **Patient:** Can view notifications in a panel and mark them as read.

5. Database Design

Table: notifications

Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI	NULL	auto_increment
created_at	datetime(6)	YES		NULL	
is_read	bit(1)	NO		NULL	
message	varchar(255)	YES		NULL	
title	varchar(255)	YES		NULL	
type	enum('ALERT','REMINDER','TIP')	YES		NULL	
user_id	bigint	YES		NULL	

6. APIs (Spring Boot)

- POST /notifications → Create a new notification (Admin only).

- GET /notifications/{userId} → Get all notifications for a user.

- PUT /notifications/{id}/read → Mark notification as read.

7. Frontend (React)

- **Admin Panel:** Form with input fields (message, type) → Submit to backend.

- **Patient Dashboard:**

    o List notifications with timestamp.

    o Button "Mark as Read" → updates backend.

8. Expected Output

- Admin successfully creates a notification.

- Patients see it in their panel.

- Patients can mark it as read → status updated in DB.