Notification Flow:

We will write a Trigger such that it automatically executes whenever a senior member assigns a task to a user , it will create a new entry in the notifications table with respected id and message(shown in the notification) and time(created at).

For Real Time Update , supabase has a feature of real time subscription , that will push updates whenever new data/row is added in the notifications table.

For the Integration in Flutter , we will use flutter_local_notifications: ^18.0.1 this package for the notification, it includes all the features like deleting the notification, providing a badge for status(read or unread).

Workflow Diagram:

```
        ┌──────────────────┐
        │  Task Assigned   │
        └──────────────────┘
                 │
                 ▼
        ┌──────────────────┐
        │ Supabase Trigger │
        └──────────────────┘
                 │
                 ▼
    ┌──────────────────────────┐
    │ Update Notifications Table│◄────────┐
    └──────────────────────────┘          │
                 │                          │
                 ▼                          │
   ┌──────────────────────────┐            │
   │ Real-Time Push to Frontend│           │
   └──────────────────────────┘            │
                 │                          │
                 ▼                          │
   ┌──────────────────────────┐            │
   │Notification Displayed in App│          │
   └──────────────────────────┘            │
                 │                          │
                 ▼                          │
   ┌──────────────────────────┐            │
   │ Mark as Read or Delete   │────────────┘
   └──────────────────────────┘
```