Health and Wellness Management Platform

Functionalities we would like to implement -

Basic Functionality:

- Basic Authentication
- Allow user to add medications
- Allow recurring medication reminders
- Reports generation
- Sending emails

Session Management:

- When logging out of our platform on one device, if the user selects the option 'Log
 me out from all devices,' it should automatically log the user out from all other
 devices where they are currently logged in.
- For user's safety, we would like to
- have a special feature called 'Log me out from other devices.' When a user chooses
 this option, the user can keep using the platform on your current device while making
 sure you're logged out from all other devices. It's an easy way to make sure your
 account stays safe, giving you control over where you're signed in.

Cron Jobs:

- Since we are building a health wellbeing system, we would like users to add their medications as well.
- Following things should be kept in mind while creating this module.
- There are two types of "Add Medications" module.
- 1. One Time 2. Recurring
- One Time: Should be available for once only i.e if the user is adding a new medication for 29th May - 2:00 AM then it should be active for once only.
- Recurring: While creating a recurring there won't be an option for selecting a date there should be a drop down with two options only for now (Daily and Weekly) and
 there should be 2 date boxes start date and end date. You can select two dates.
 Let's take an example. Start Date: 30th May, 2024 End Date: 01st August, 2024

Time: 2:00 PM

- Starting from 30th May till 1st August I must receive notifications for that particular added medication. If the user selected "Daily" then the user must receive notifications every day at 2:00 PM.
- If the user selects "Weekly" then one more dropdown should be added which contains all the days of a week. Let's say user selected Thursday then user must receive notifications (email) on every thursday at 2:00 PM
- Following user must add these while adding a new medication:
 - o Medicine Name
 - Description
 - Mark as done [User should be able to mark medicine as done at the time when they receive a notification]
 - [and other necessary things we mentioned earlier render everything according to the selected options]

Queues:

- At the end of every week I would like to generate reports and send them to users.
 Now imagine generating a bunch of large resources at once would be a critical task.
 It may slow down our server or sometimes even crash it.
- This process contains reading user's data generating a csv and sending the user that sheet with appropriate body content and it should be done very carefully considering JS is a single threaded.
- The CSV should contain all the medicines I have taken this week and all the metadata [mark as done, time, date] related to it.
- We would like to implement queues here. You can use the BullMQ package for this.
 Do research about why queues are important and how beneficial they are.

Emails:

- As discussed earlier we would like to send users email about reports and medications reminders. At every place where I have mentioned notifications - we are discussing email notifications only.
- You may use the node-mailer package for this.
- For SMTP credentials you may generate that from your google accounts using App Password.

File Storage:

- If you wish to use multer for file storing which stores directly to your server it's alright.
- You can also consider using "cloudinary" which provides free storage up to some extent. This way in future we can learn how we can work with other S3 storages.

Basic blueprint for add medication module:

