Prescription Management System Project

Short description for project: fullstack prescription management system for patients (MVP) and healthcare providers (extension).

1. **Frontend:**

- React
- User Authentication UI - (Redux for React to manage user state?)
- Prescription tracker UI + reminder functionality? Maybe a page to report side effects to the yellow card scheme?
- Medication hx UI
- Adherence data?
- Display details of a medication - aka stuff from the bnf

2. **Backend**

- Java, Spring Boot, PostgreSQL
- User authentication server (JSON Web tokens?)
- API for prescription data and reminders (implement a scheduler e.g. Celery in Python)
- Medication history and adherence reporting server

3. **Additional considerations:**

- Security - data encryption, secure endpoints, proper user authentication
- Testing - unit testing, integration testing, end-to-end testing

MVP:
- Patient can login
- Patients have a profile
- Patient can track their medications to be taken
- Patients can view medications they have already taken + adherence
- Patients get reminders of when to take their medications
- Patients can view details of a medication they are taking (what it is, how it works, recommended ways of taking it etc)
- Patient can add and delete medications
- Security - encryption + proper user authentication
- Testing - unit testing

Extension:
- Healthcare provider can login
- HCP can see list of patients under their care

- HCP can see their patients profile
- HCP can see adherence information
- Security - secure endpoints
- Testing - integration testing + end-to-end testing