Java - Objected Oriented Programming

Project: Smart E-health Consulting System

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Project Description & Requirements

- 1. Realize a smart e-health consulting system which consists of a Graphical User Interface (GUI) with the following requirements:
 - Provide a user login for different users → creation of user profiles and login with username and password (authentication). Think about encryption methods to use for storing login data in a database. Admin should be able to:
 - Access to all user profiles
 - Edit user profiles
 - Delete user profiles
 - The user should be able to make an appointment for a specialized medical doctor based on the health problem that he/she is having. The following information should be used to make a new appointment:
 - First and Last name of patient
 - Address information
 - Date of birth
 - Health information
 - Insurance type (private or public)
 - Insurance name

- Health problem Based on the health problem specialized doctors should be displayed in a list.
- Distance of search (give the input in kilometer). Depending on the given area of search only the doctors that are near your area should be displayed. After the patient selects a doctor, he/she needs to confirm the appointment. An email should be sent to the patient which confirms the doctor's appointment with the following information:
 - * Name of the doctor
 - * Address of the doctor
 - * Date and Time of appointment.
- Reminder functionality \rightarrow Drop down menu with the selection:
 - -1 week
 - -3 days
 - -1 hour
 - 10 minutes

The reminder should send a mail to the patient.

- 2. The user should be able to cancel or shift the appointment. After canceling or shifting of the appointment, the patient should receive an email with the changes.
- 3. The user should be able to export the health information as a PDF or TXT file.
- 4. The source code should include a Javadoc. Javadoc is the user defined API of the used classes, methods and attributes!
- 5. Provide diagrams (e.g. class diagram, sequence diagram, flow diagram) which describe the software architecture and functionality.
- 6. Additionally, a project documentation (max. 18 pages) should be written which includes the following:
 - Project description
 - Project motivation
 - Requirements
 - Team organization (Task distribution, Gantt chart)
 - Technical description of solution:
 - Diagrams which illustrate architecture and functionality of the system including a textual description.
 - Description and solution of challenges.
 - Conclusion