

Java Final Project Proposal - Ideas

Name: Online Appointment Scheduling System

Topics: GUIs, Networking, Databases

Functionalities:

Implemented in GUIs

- Use Swing or other GUIs

Common:

- Login Page
- Registration Page (can register user account only)

An admin can add/edit employees and users.

- There will be one admin account, which can activate or suspend all kinds of employees and users accounts.
- (maybe) edit employees and users' information.

An employee can set the working days and appointment slots for each week.

- There will be at least one employee account, which has working hours between 9AM to 6PM, with a single one-hour lunch break, working from Mondays to Fridays, each time slot will be 30 minutes.
- (maybe) multiple options for time slots length (such as 15 minutes, 30 minutes, 45 minutes, 60minutes)
- (maybe) employees can set their own working schedules.
- (maybe) more than one employee account
- show all/upcoming appointments.

A user can select an employee and a time slot if empty after login.

- Users can pick a time slot at least 24 hours in advance but no more than 3 weeks.
- (maybe) if there are more than 1 employee, the user can choose an employee first.
- Once the user picks the time slot, the spot is secured and will no longer be available for the other users to pick.
- (maybe) after the user picks the time slot, the appointment will no longer be available, but need confirmation from the employee.
- show all/upcoming appointments.

Students were advised to implement encryption in the username/password DB table, combined with a "salt" and "pepper" to protect the passwords from attack