Criterion A

Defining the problem

Ms. Preeti is a dedicated French teacher residing in Dubai who has over 20 years of experience in the field of teaching and previously has taught in Indian High School, Dubai. However, for the past few years, she has been taking private tuitions instead of teaching at a school. She is finding it hard to manage her classes and keep track of student progress as she depends on written diaries for noting down her classes and fee payment (Appendix 1: "I have been finding it difficult to keep track of this information because I often misplace the books in which I write the information down."). Consequently, she expressed her desire for assistance in creating an application which can help her track and schedule classes (Appendix 1: "I wish there was a platform which I could use to solve these problems.")

Rationale

The solution that we have decided to pursue is an application for my client. I have decided to construct this platform as an application so that my client can access her records and work on this platform even without an internet connection (Appendix 1: "I would prefer this to be an offline application so that I can work on it even when I do not have internet."). I will be implementing a database to store details of students, their classes and to incorporate the fee tracking feature. The student information will be accessible to the teacher (information about their students only).

After consulting the client, I have decided to use a NetBeans Java IDE and SQLlite. The NetBeans platform contains APIs that can handle windows, create authentication features, facilitate file uploads, database integration and can aid in creating interactive user-interface. SQLlite is a reliable database system that is used to store student details, growth in performance, fee payment information etc. It works well with Java and provides advanced features such as scalability and data integrity which can enhance and create a secure platform for the client to track their class information.

This proposed application will use these tools to offer an efficient, and secure experience for managing classes and reducing the workload of the client.

> It provides a user-friendly platform for the client to efficiently organize her tuitions and communicate with her students while her students can access resources she uploads on this online platform. It will use Java and SQLite to integrate the features mentioned above.

Words: 355

Success Criteria:

1. Application should have the following pages: Home, Login, Sign Up, Dashboard, Tasks, Calendar, Student Information, Chat, Fees, and Files.

2. Client can create account or log into existing account.

3. Client can schedule classes on the calendar page.

4. Client can create classes, add, and remove students and access student information.

5. Client and client's students should get an email reminder after scheduling a meeting.

6. Client can upload files for their student to keep track of all the resources that have been used throughout the classes.

7. Client can upload assignments to keep track of any tests that were conducted. Client can also grade these assignments in order to keep track of the student's improvement.

8. Client can track if a student has or has not paid the fee. Client's students can pay their fee through this application. Client and student both will be notified by mail once the payment has been made.

9. Client can navigate through the application and its features through the Dashboard page.