DBMS Project

Classroom Desktop App

Final Report and SQL Queries

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The app had the functionality of Google Classroom. It is a JAVA Desktop app made using JavaFX. A simple frontend and incomplete SQL was provided which had to be improvised upon to make. The app includes **logging in both as faculty and students** but no such specification was made initially.

Functionality Added:

- General

- UI improvements
- Fixes to the storing signed-in behaviour
- Different signup pages for student and faculty due to different details required
- Checking on login the type of user and loading the required profile

- Faculty

- Add Courses
- Add Assignments
- View assignment submissions
- Add announcements

- Students

- Select course after viewing course details
- View assignments posted in a course
- Submit assignments
- VIew announcements in a course

SQL Queries:

Login

- To check if user is already logged in

SELECT * FROM classroomdbms.currentuser WHERE id = 'PFEHFE31U8SBHV'

SELECT * FROM classroomdbms.facultydetails WHERE emailId = ?

SELECT * FROM classroomdbms.studentdetails WHERE emailId = ?

 Student Login. (get student, replace current user, fetch details for profile page):

SELECT * FROM classroomdbms.studentdetails WHERE emailId = ? AND password = ? REPLACE INTO classroomdbms.currentuser (id, emailId, type) VALUES (?,?,?) SELECT * FROM classroomdbms.studentcoursedetails WHERE emailId = ?

 Faculty Login. (get faculty, replace current user, fetch details for profile page)

SELECT * FROM classroomdbms.facultydetails WHERE emailId = ? AND password = ? REPLACE INTO classroomdbms.currentuser (id, emailId, type) VALUES (?,?,?) SELECT * FROM classroomdbms.classroomdetails WHERE faculty_emailId = ?

Student signup

- To register a student

INSERT INTO classroomdbms.studentdetails (firstName, lastName, emailId, password, dob, phoneNumber, gender, college) VALUES (?,?,?,?,?,?)

- Replace the current user

REPLACE INTO classroomdbms.currentuser (id, emailId, type) VALUES (?,?,?)

Get the student details on profile page

SELECT * FROM classroomdbms.studentcoursedetails WHERE emailId = ?

Faculty Signup

- To register faculty

INSERT INTO classroomdbms.facultydetails (firstName, lastName, emailId, password, designation, phoneNumber) VALUES (?,?,?,?,?)

- To replace current user

REPLACE INTO classroomdbms.currentuser (id, emailId, type) VALUES (?,?,?)

- Get the faculty details for profile page

SELECT * FROM classroomdbms.classroomdetails WHERE faculty_emailId = ?

Log out

- Delete current user entry with the specific user ID

DELETE FROM `classroomdbms`.`currentuser` WHERE `id`='"+userID+"';

Faculty

- Edit Profile

UPDATE classroomdbms.facultydetails SET firstName = ? , lastName = ? , designation = ? , phoneNumber = ? WHERE emailId = ?

- Update Password

UPDATE classroomdbms.facultydetails SET password = ? WHERE emailId = ? AND password = ?

- Delete profile (delete faculty, delete current user)

DELETE FROM `classroomdbms`.`facultydetails` WHERE `emailID`='"+emailId+"' DELETE FROM `classroomdbms`.`currentuser` WHERE `emailID`='"+emailId+"'

- Add a new course

INSERT INTO classroomdbms.classroomdetails (courseld, faculty_emailId, course_name, lecture_timing, tutorial_timing, marks_distribution, attendance_rule, grading_rule, lecture_hall, literature_link) VALUES (?,?,?,?,?,?,?,?)

- Add assignment for a course

INSERT INTO classroomdbms.assignments (courseld, faculty_emailId, timestamp, deadline, assignment_details, attachment_type, attachment_url) VALUES (?,?,?,?,?,?)

- Add announcement for a course

INSERT INTO classroomdbms.announcements (courseld, faculty_emailId, timestamp, message, attachment_type, attachment_url) VALUES (?,?,?,?,?)

- View all assignments for a course

SELECT * FROM classroomdbms.assignments WHERE courseld = ? AND faculty_emailId = ?

- View all announcements for a course

SELECT * FROM classroomdbms.announcements WHERE courseld = ? AND faculty_emailId = ?

- View submission for an assignment

SELECT * FROM classroomdbms.studentsubmissiondetails WHERE assignmentId = ?

Student

- Edit profile

UPDATE classroomdbms.studentdetails SET firstName = ? , lastName = ? , phoneNumber = ? , college = ? WHERE emailId = ? Delete profile (delete student, delete current user)

"DELETE FROM `classroomdbms`.`studentdetails` WHERE `emailID`='"+emailId+"' "DELETE FROM `classroomdbms`.`currentuser` WHERE `emailID`='"+emailId+"'

- Show selectable course (show only those that have not been already selected)

SELECT * FROM classroomdbms.classroomdetails WHERE courseld not in (select courseld from classroomdbms.studentcoursedetails where emailed = ?)

- Select a course

INSERT INTO classroomdbms.studentcoursedetails (emailId, courseId) VALUES (?,?)

- Show classroom details

SELECT * FROM classroomdbms.classroomdetails WHERE courseld = ?

- Select all assignments for this course

SELECT * FROM classroomdbms.assignments WHERE courseld = ? AND faculty_emailId = ?

- Select all announcements for this course

SELECT * FROM classroomdbms.announcements WHERE courseld = ? AND faculty_emailId = ?

- Submit an assignment

INSERT INTO classroomdbms.studentsubmissiondetails (emailId, assignmentId, timestamp, submission) VALUES (?,?,?,?)

- Search a student

SELECT * FROM classroomdbms.studentdetails WHERE (firstName LIKE '%%' OR lastName LIKE '%%' OR phoneNumber LIKE '%%' OR college LIKE '%%') ORDER BY TRIM(firstName) asc. TRIM(lastName) asc

Speak out

- Add a message

INSERT INTO classroomdbms.speakouts (timestamp, emailId, message) VALUES (?,?,?)

- Search messages

SELECT * FROM classroomdbms.speakouts WHERE (message LIKE '%abc%' OR emailId LIKE '%abc%') ORDER BY timestamp asc