

Mobile Application Development Laboratory
Model Exam

Employee Task Application

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Question:

Design an employee attendance application using Android Studio with following functionalities. (Use Sqlite as storage method)

- i) Have 2 types of users – Employee and Admin. An employee can register with the app using a set of details. Each employee should have a unique id and username. The employee can login app with a username and password. Have a page that shows his name, welcome message, and the set of tasks he needs to do today (tasks can be in points). Have a checkbox and text (something like “I log in for work”). Upon clicking enable the submit button. Upon submission, redirect to a page that displays the task, check box, text (“I have completed the task”), and submit button.
- ii) Admin can log in (have predefined username: admin Password: admin) and view the employees who logged in for work, and the amount of time to complete the task. Admin can also add the tasks.
- iii) Use toasts wherever necessary(use at least twice)

Aim:

To make an android application for Employee management using SQLite.

Technical Concepts Learnt:

- Menus.
 - Menus are needed to add hidden functionality such as "Create Task" and "Logout".
- Toasts.
 - Toasts are used to alert the user and indicate the status of every operation the user performs.
 - Eg: "Login Successful", "Invalid Information" etc.
- ListView and ListViewAdapters.
 - Used to display information from the database in List Form.
 - Eg: EmployeeListCursorAdapter, TaskListCursorAdapter.
- SharedPreferences.
 - Used to store small key value pairs, and persist a login session.
- Intents.
 - Used to switch between activities and pass information between them using Extras.
- SQLite.
 - Used as our main storage, contains the tables "Employee" and "Task". Stores all information.
 - Information is accessed through a SQLiteDatabase wrapper class.

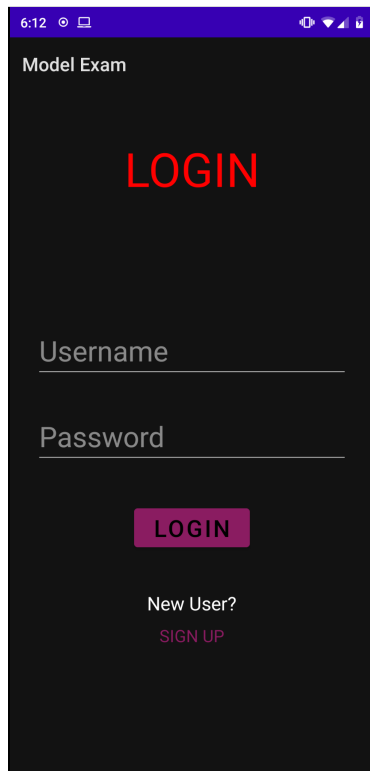
Source Code:

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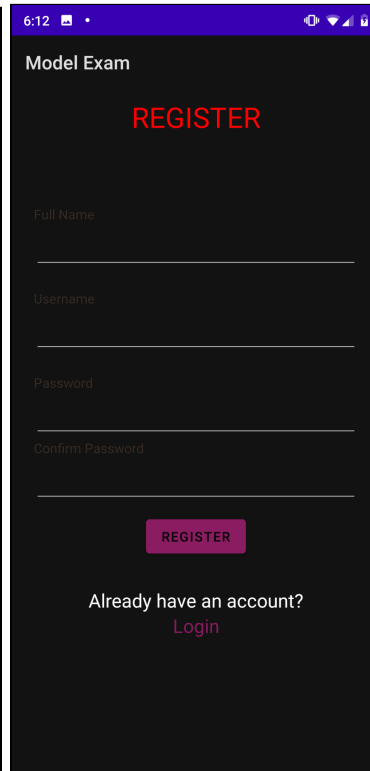
Apk:

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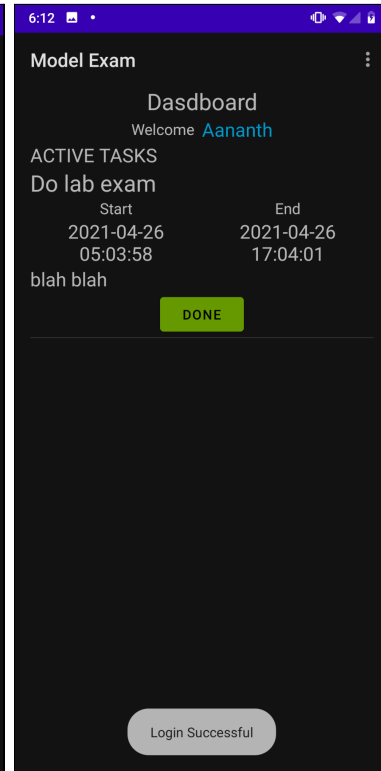
Screenshots:



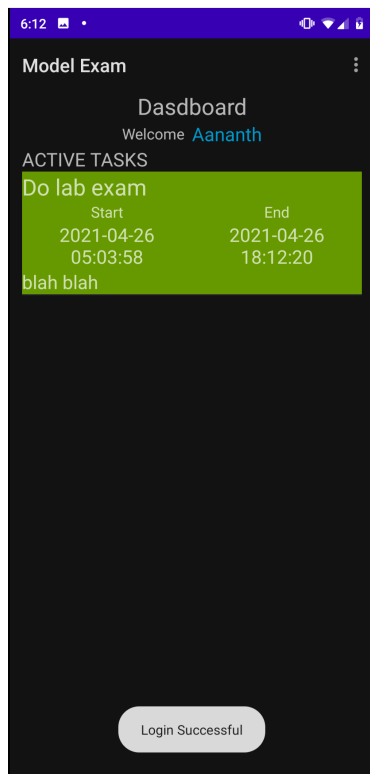
(i) Login



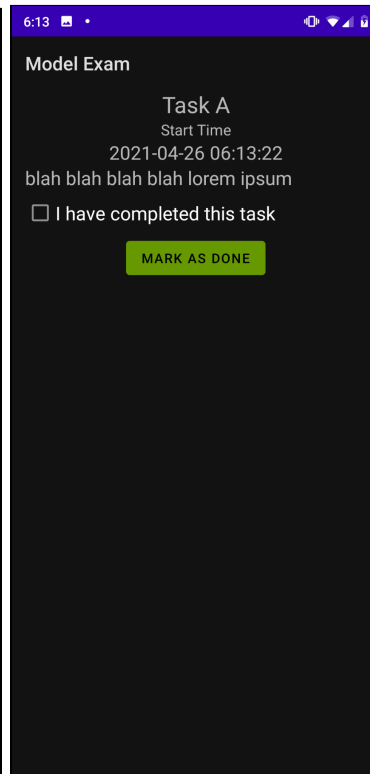
(ii) Register



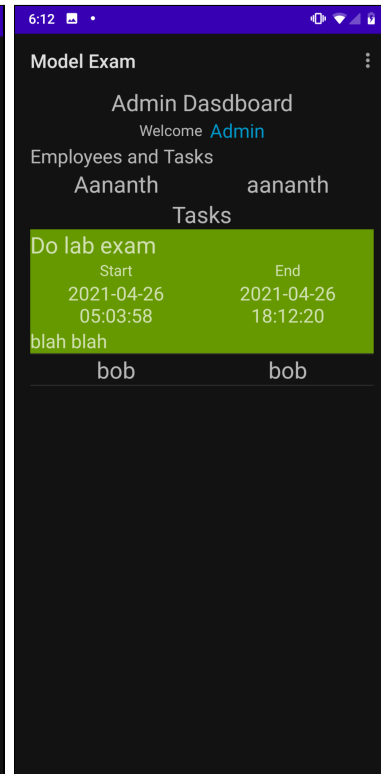
(iii) Dashboard



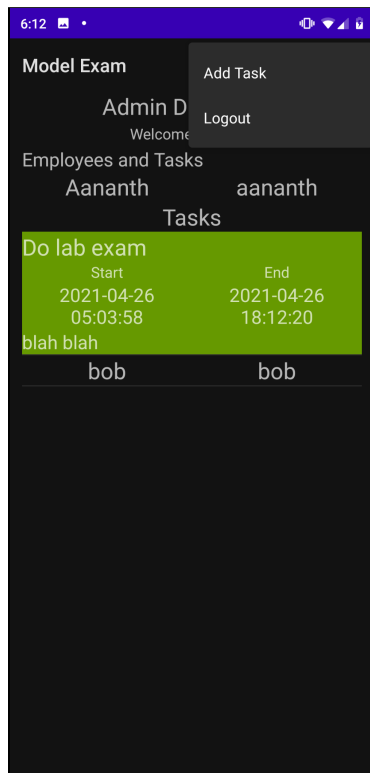
(iv) Dashboard - Done



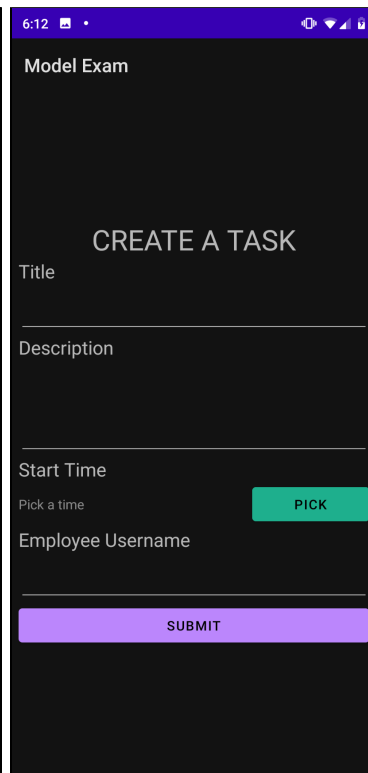
(v) Mark as Done



(iii) Admin Dashboard



(vii) Menu



(viii) Create Task

Conclusion:

An android application for Employee management was made using SQLite. Various concepts in Android App Development were explored including:

- Menus.
- Toasts.
- ListView and ListViewAdapters.
- SharedPreferences.
- Intents.
- SQLite.