**Lab session 4: CRUD operations with SQLite using Flutter**

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| **Introduction** |
| In this lab session, you will demonstrate the CRUD operations with SQLite and Dart in a Flutter application. |

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| **Objectives** |
| At the end of this session, students are expected to be able to create a Flutter App to implement the CRUD operations using Dart programming language. |

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| **Deliverables** |
| * A full documentation with Screenshots and descriptions of the Labs and Dart files. |
| **Student Name** |
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**Tutorials**

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| 1. <https://docs.flutter.dev/cookbook/persistence/sqlite> |
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**Practical -**

**Task-1**

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| **Implement CRUD operations based on the base code and tutorial given** |
| **Using the tutorial link#1 implement the CRUD operations on a table of your choice in SQLite.** |
| <https://docs.flutter.dev/cookbook/persistence/sqlite> |
| **Provide a documentation with a short description and screenshots for all the steps of the lab and the Dart files.** |

**Task-2**

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| **Firebase for Flutter** |
| **[https://firebase.google.com/codelabs/firebase-auth-in-flutter-apps#0](https://firebase.google.com/codelabs/firebase-auth-in-flutter-apps" \l "0)** |
| **Provide a documentation with a short description and screenshots for all the steps of the lab and the Dart files.** |

**Task-3**

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| **Get to know Firebase for Flutter** |
| **https://firebase.google.com/codelabs/firebase-get-to-know-flutter#0** |
| **Provide a documentation with a short description and screenshots for all the steps of the lab and the Dart files.** |

**Task-4**

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| **Local development for your Flutter apps using the Firebase Emulator Suite** |
| **[https://firebase.google.com/codelabs/get-started-firebase-emulators-and-flutter#0](https://firebase.google.com/codelabs/get-started-firebase-emulators-and-flutter" \l "0)** |
| **Provide a documentation with a short description and screenshots for all the steps of the lab and the Dart files.** |

**Task-5**

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| **Implement the CRUD operations using Flutter and Firebase-FireStore cloud environment** |
| **Use the base code given during lecture** |
| **Provide a documentation with a short description and screenshots for all the steps of the lab and the Dart files.** |

**OPTIONAL - Task-6**

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| **Firebase Android Codelab - Build Friendly Chat** |
| **https://firebase.google.com/codelabs/firebase-android#0** |
| **Provide a documentation with a short description and screenshots for all the steps of the lab and the Dart files.** |

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| **Student Notes and feedback** |
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| **Screenshots** |

