**Lab session 1: Flutter Installation and UI Design using Flutter**

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| **Introduction** |
| 1. In this first lab session, you will set up your working environment for Flutter and Dart programming. 2. Create your first app in Flutter. |

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| **Objectives** |
| At the end of this session, students are expected to have a clean environment setup and ready to go with creating their first mobile App. |

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

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| 1. **Read about Flutter installation procedures on Windows and other operating systems** |
| [**https://docs.flutter.dev/get-started/install/windows**](https://docs.flutter.dev/get-started/install/windows) |
| 1. **Read about the Dart programming language** |
| [**https://dart.dev/guides**](https://dart.dev/guides) |
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**Practical - Codelabs**

**Task-1**

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| **Flutter environment Installation** |
| **Install the flowing software and some tools.**   1. **Flutter** 2. **Android Studio** 3. **VSCode with Flutter Plugins**   [**https://docs.flutter.dev/get-started/install/windows**](https://docs.flutter.dev/get-started/install/windows)  **Document all the steps with screenshots and descriptions you will follow for these installations. If ever you run into issues, please check online to resolve them on StackOverflow for example or Youtube.** |

**Notes: Please use the following path to check the Flutter installation setup status.**

**C:\src\flutter\bin\Flutter doctor -v**

**Task-2**

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| **Using an appropriate online tool create a wireframe for a Flutter App** |
| **Provide a documentation with a short description and screenshots for all the steps of the lab.** |

**Task-3**

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| **Using an appropriate online tool create a wireflow for a Flutter App** |
| **Provide a documentation with a short description and screenshots for all the steps of the lab.** |

**Task-4**

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| **Using an appropriate online tool create a prototype for a Flutter App** |
| **Provide a documentation with a short description and screenshots for all the steps of the lab.** |

**Task-5**

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| **Create your first Flutter App in VSCode or Android Studio** |
| **Provide a documentation with a short description and screenshots for all the steps of the lab.** |

**Task-6**

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| **Visualizing dynamic color in your app - Codelab** |
| [https://codelabs.developers.google.com/visualize-dynamic-color#0](https://codelabs.developers.google.com/visualize-dynamic-color" \l "0)  **Provide a documentation with a short description and screenshots for all the steps of the lab.** |

**Task-7**

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| **Create your first App using MIT AppInventor** |
| [**https://appinventor.mit.edu/**](https://appinventor.mit.edu/)  **Provide a documentation with a short description and screenshots for all the steps of the lab.** |
| **Student Notes and feedback** |
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| **Screenshots** |

