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| **ROLL# / Name / GitHub ID** | **I will deliver[[1]](#footnote-1)** | **My Learning Outcome** |
| BSITF17E038 / Shoaib Ahmad / shoaib31 | 1. Design front end user-interface of ‘Home Appliances’ page 2. Backend code of the ‘Home Appliances’ page in java. 3. Coding the backend of application in java is time consuming test as all devices have to configured and controlled with the application | 1. Android Studio 2. XML and Java |
| BSITF17E052 / Ahmad Fareed / aft145 | 1. Design front end user-interface of ‘Sign up’ page 2. Backend code of the ‘Sign up’ page in java. It includes a Firebase connection and saves user's data in the Firebase. 3. Coding of signup page is a time consuming task specifically the backend of the application as it is to be connected to database this is a complex task. | 1. Android Studio 2. XML and Java |
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| **PROJECT COMPLETED: 7%** | | |

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| **ROLL# / Name / GitHub ID** | **I will deliver[[2]](#footnote-2)** | **My Learning Outcome** |
| BSITF17E038 / Shoaib Ahmad / shoaib31 | 1. Design front end user-interface of ‘IoT Sensors’ page 2. Backend code of the ‘IoT Sensors’ page in java. 3. Programing of the backend code of Sensor and calibrating the sensors for accurate output is a complex task it requires all sensors to send a numeric value to be used by application 4. All sensors like the PIR and LDR return a numeric value in different environment that value is used to predict environment to give output. | 1. Android Studio 2. XML and Java |
| BSITF17E052 / Ahmad Fareed / aft145 | 1. Design front end user-interface of ‘Sign in’ page 2. Backend code of the ‘Sign in’ page in java language. It includes store user's sign-in data in the Firebase. 3. Sign in page allows user to sign into their account coding of this page is complex task as it requires authentication method which has to be secure. | 1. Android Studio 2. XML and Java |
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| **PROJECT COMPLETED: 14%** | | |

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| **ROLL# / Name / GitHub ID** | **I will deliver[[3]](#footnote-3)** | **My Learning Outcome** |
| BSITF17E038 / Shoaib Ahmad / shoaib31 | 1. Design front end user-interface of ‘Change Password, Logout’ pages 2. Backend code of the ‘Change Password, Logout’ page in java 3. Coding of backend of change password is complex task as it requires time and password change method has to be secured | 1. Android Studio 2. XML and Java |
| BSITF17E052 / Ahmad Fareed / aft145 | 1. Design front end user-interface of ‘Home’ page 2. Backend code of the ‘Home’ page in java. 3. Coding of the home page has to be done the home page is the main page so it is a time consuming task to design the home page. | 1. Android Studio 2. XML and Java |
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| **PROJECT COMPLETED: 21%** | | |

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| **ROLL# / Name / GitHub ID** | **I will deliver[[4]](#footnote-4)** | **My Learning Outcome** |
| BSITF17E038 / Shoaib Ahmad / shoaib31 | 1. Code to send IoT Sensor data from Microcontroller (NodeMcu) using Arduino IDE to the Firebase database. 2. Sending data from microcontroller to firebase is a time consuming task. 3. Arduino Ide is used to program the process. | 1. Arduino IDE, Firebase 2. C language |
| BSITF17E052 / Ahmad Fareed / aft145 | 1. Code to send Devices data from Microcontroller (NodeMcu) using Arduino IDE to the Firebase database 2. Sending data from microcontroller to firebase is a time consuming task. 3. Arduino Ide is used to program the process. | 1. Arduino IDE, Firebase 2. C language |
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| **PROJECT COMPLETED: 30%** | | |

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| **ROLL# / Name / GitHub ID** | **I will deliver[[5]](#footnote-5)** | **My Learning Outcome** |
| BSITF17E038 / Shoaib Ahmad / shoaib31 | 1. Code to display the IoT Sensor data from Firebase to the Android Application 2. Coding the transfer of sensor data from firebase to android application is a complex and time-consuming task as it requires reading data from sensor. 3. Sensors return a numeric value which can be used | 1. Android Studio, Firebase 2. Java language |
| BSITF17E052 / Ahmad Fareed / aft145 | 1. Code to display the Devices data from Firebase to the Android Application 2. Coding the transfer of device data from firebase to android application is a complex and time-consuming task as it requires reading data from sensor. 3. Sensors return a numeric value which can be used | 1. Android Studio, Firebase 2. Java language |
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| **PROJECT COMPLETED: 35%** | | |

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| **ROLL# / Name / GitHub ID** | **I will deliver[[6]](#footnote-6)** | **My Learning Outcome** |
| BSITF17E038 / Shoaib Ahmad / shoaib31 | 1. Code to change the Devices State in the firebase if the Sensors reaches a specific value. 2. Changing the device state through firebase is a time consuming and complex task as devices have to be recognized by the application and controlled Coding this is a complex task. | 1. Arduino IDE, Firebase 2. C language |
| BSITF17E052 / Ahmad Fareed / aft145 | 1. Code to change the Devices data in the firebase. Like Switch ON a device 2. Changing the device state through firebase is a time consuming and complex task as devices have to be recognized by the application and controlled Coding this is a complex task. | 1. Android Studio, Firebase 2. Java language |
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| **PROJECT COMPLETED: 40%** | | |

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| **ROLL# / Name / GitHub ID** | **I will deliver[[7]](#footnote-7)** | **My Learning Outcome** |
| BSITF17E038 / Shoaib Ahmad / shoaib31 | 1. Code to display the change in the device if the sensor reaches a specific value 2. Coding the device state state through firebase is a time consuming and complex task as devices have to be recognized by the application and controlled Coding this is a complex task. | 1. Android Studio, Firebase 2. Java language |
| BSITF17E052 / Ahmad Fareed / aft145 | 1. Code in Arduino IDE to receive data from the firebase and perform a specific task, Like Switch ON a device. 2. Changing the device state through Aduino Ide is a time consuming and complex task as devices have to be recognized by the application and controlled Coding this is a complex task. 3. Technique/ Algorithm Involved (with Just.) | 1. Arduino IDE, Firebase 2. C language |
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| **PROJECT COMPLETED: 45%** | | |

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| **ROLL# / Name / GitHub ID** | **I will deliver[[8]](#footnote-8)** | **My Learning Outcome** |
| BSITF17E038 / Shoaib Ahmad / shoaib31 | 1. Code to store the Fingerprint Sensor data in the Firebase 2. Fingerprint is stored securely in the fingerprint sensor storing it in the database is a time consuming and complex task. 3. Fingerprint is stored as an image the bitmap of the image can be stored in the database. | 1. Arduino IDE 2. C language |
| BSITF17E052 / Ahmad Fareed / aft145 | 1. Code to verify and give access to the user if the valid fingerprint is entered. 2. Fingerprint is stored securely in the fingerprint sensor validating fingerprint with user is a time consuming and complex task. | 1. Arduino IDE, Firebase 2. C language |
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| **PROJECT COMPLETED: 50%** | | |

1. https://github.com/aft145/aft145.github.io [↑](#footnote-ref-1)
2. https://github.com/aft145/aft145.github.io [↑](#footnote-ref-2)
3. https://github.com/aft145/aft145.github.io [↑](#footnote-ref-3)
4. https://github.com/aft145/aft145.github.io [↑](#footnote-ref-4)
5. https://github.com/aft145/aft145.github.io [↑](#footnote-ref-5)
6. https://github.com/aft145/aft145.github.io [↑](#footnote-ref-6)
7. https://github.com/aft145/aft145.github.io [↑](#footnote-ref-7)
8. https://github.com/aft145/aft145.github.io [↑](#footnote-ref-8)