Android Development in Kotlin

The following is a timetable of Android Workshop Starting Date: 31 July 2022 - 28 August 2022

Time: 11 AM - 4 PM

Instructor: Shaima Alghamdi

instructor	Topics	Week/Day
	WEEK 1	
Shaima	Intro to Android: Get to Know Android OS Opportunities as Android Developer Resources Download Android Studio Create your First Project SDK, API Levels A look into Android Studio	Week: 1 Day: 1 Sunday
Shaima	Unit 1: Kotlin Basics: Variables Functions Comments Layouts in Android Views and ViewGroups Add Images to your App Project: InvitationApp TuwaiqApp	Week: 1 Day: 2 Monday ✓
Shaima	 Unit 1: Kotlin Basics: Classes and Objects random() function ConstraintsLayput Project:	Week: 1 Day: 3 Tuesday ✓

	Dice Roller App 1	
Shaima	 Unit 1: Kotlin Basics: Conditionals: when and if expressions Add a button to an app Click Events Changing UI State findViewByld() Project: Dice Roller App 2	Week: 1 Day: 4 Wednesday
Shaima	Projects: Build Lemonade App	Week: 1 Day: 5 Thursday ✓
	WEEK 2	
Shaima	Unit 2: Layouts: Classes Constructors Inheritance (abstract, open, override, private) with (formal definition) Project: Dwelling Class	Week: 2 Day: 1 Sunday ✓
Shaima	Unit 2: Layouts: • Build XML layout to take input: EditText, Switch, RadioGroup • Res folder: • styles • strings • colors • fonts Project: VAT App	Week: 2 Day: 2 Monday ✓
Shaima	Unit 2: Layouts:	Week: 2

	 Change App theme Change App icon Collections in Kotlin: Lists, Maps, Sets Project: VAT App Order List	Day: 3 Tuesday
Shaima	 Unit 2: Layouts: Collections in Kotlin: Lists, Maps, Sets Add dependencies in Gradle file RecyclerView Adapter ViewHolder Project: Athkar App	Week: 2 ✓
Shaima	Unit 2: Layouts: • Data class • Use lists in Data source • CardView Project: Athkar App	Week: 2 Day: 4 Wednesday
Shaima	Project: Athkar App	Week: 2 Day: 5 Thursday ✓
	WEEK 3	
Shaima	 Unit 3: Navigation: Navigate between screens Activity and Intents Stages of Activity Lifecycle Project: WordsApp	Week: 3 Day: 1 / 2 Sunday Monday

	DessertApp	
Shaima	 Unit 3: Navigation: Introduction to the Navigation component: NavGraph NavHost - Fragment Container NavController SafeArgs Fragments Stages of Fragments Lifecycle Project:	Week: 3 Day: 3 / 4 Tuesday Wednesday
	WordsApp	
Shaima	 Unit 3: Navigation: Introduction to the App Architecture: UI Layer UI Controllers ViewModel LiveData Project: Unscramble App 	Week: 3 Day: 5 Thursday
	WEEK 4	
Shaima	Unit 3: Navigation: Introduction to the App Architecture: jetpack library UI Layer UI Controllers State Holders and UI State ViewModel ViewModel Lifecycle LiveData DataBinding Nullability Lamda Function Dialogs	Week: 4 Day: 1 Sunday

	Project: Unscramble App	
Shaima	Unit 3: Navigation: Navigation Component ViewModel Overview sharedViewModel Navigation and the back stack elvis operator Data Binding Layout and binding expressions Transform LiveData SimpleDateFormat apply scope function in Kotlin Compile-time Constants Project: Cupcake App	Week: 4 Day: 2 Monday ✓
Shaima	Final Project	Week: 4 Day: 3 Tuesday
Shaima	Final Project	Week: 4 Day: 4 Wednesday
Shaima	Final Project	Week: 4 Day: 5 Thursday
Shaima	Final Project Presentation	Week: 5 Day: 1 Sunday

متطلبات المشروع النهائي