

Topic	Sub Topic	Estimated Time		Website to refer	Note	Date		
Introduction							0	Not Done
	Overview	1	1	https://flutter.dev/docs			1	Done
	why use flutter?		1	https://flutter.dev/docs				
Setup								
	Install	1	1	https://flutter.dev/docs/get-started/install				
	Setup an editor		1					
	Create test application		1					
Dart Overview								
	Basic overview	4	1	https://flutter.dev/docs/get-started				
	Data types, Operators, Loops,List,Map,Functions		1					
	Exception, Interface, Classes,Object,Map		1					
	Dart Async		1					
User Interface								
	Introductions to widgets	3	1	https://www.tutorialspoint.com/dart_programming				
	Stateful and Stateless widgets		1					
	Adding assets and images		1					
	Navigation & routing		1					
Widgets								
	Text, Button, Image, Alert, ActionSheet, DropDown	3	1	https://github.com/mirantvolansys/FlutterDemo/tree/OtherIDPLearning/Learning/flutter_app_actionsheet_dropdo		2019-09-02		
	ScrollView,		1	https://github.com/mirantvolansys/FlutterDemo/tree/OtherIDPLearning/Learning/flutter_app_scroll_tabbar				
	Navigation Drover		1	https://github.com/mirantvolansys/FlutterDemo/tree/OtherIDPLearning/Learning/flutter_app_side_drawer		2019-09-03		
	Tab Bar		1	https://github.com/mirantvolansys/FlutterDemo/tree/OtherIDPLearning/Learning/flutter_app_scroll_tabbar		2019-09-04		
	List	3	1	https://github.com/mirantvolansys/FlutterDemo/tree/OtherIDPLearning/Learning/flutter_app_scroll_tabbar				
	Cell List Tile		1					
	Expansion Tile		1					
	Custom List		1			2019-08-30		
Animation								
	Introduction	1	1	https://github.com/mirantvolansys/FlutterDemo/tree/learnP/flutter_app_animations				
	Animations overview		1	https://github.com/mirantvolansys/FlutterDemo/tree/learnP/flutter_app_animate_comp_prof		2019-08-28		
	AnimatedWidget vs. AnimatedBuilder		1	https://stackoverflow.com/questions/51694871/animatedwidget-and-animatedbuilder-in-flutter		2019-08-29		
Advance UI								
	Bloc Architecture understanding	2	1	https://github.com/mirantvolansys/FlutterDemo/tree/OtherIDPLearning/Learning/Flutter-Bloc-Pattern-master		2019-09-05		
	Gestures	1	1	https://flutter.dev/docs/development/ui/advanced/gestures		2019-09-09		
Data & Connections								
	State management (Application State mgt)	2	1	provider (https://flutter.dev/docs/development/data-and-backend/state-mgmt/simple)		2019-09-10		
	JSON and serialization	1	1	https://github.com/mirantvolansys/FlutterDemo/tree/learnP/flutter_app_json_learn				
	API calling (GET & POST)	1	1					

	Sqflite database	3	1	https://github.com/mirantvolansys/FlutterDemo/tree/learnP/flutter_app_sqlite				
	Data passing between multiple Widgets	2	1	https://github.com/mirantvolansys/FlutterDemo/tree/learnP/flutter_app_kilimatic				
Packages and Plugins								
	Adding a package dependency to an app	1	1	https://pub.dev/packages/				
	Developing packages & plugins Overview	1	1	https://flutter.dev/docs/development/packages-and-plugins/developing-packages		2019-09-12		
	Background processes (Background Thread, App Background Operations), Stream Builder	4	1	https://github.com/mirantvolansys/FlutterDemo/tree/OtherIDPLearning/Learning/flutter_app_streambuilder , https://github.com/mirantvolansys/FlutterDemo/tree/OtherIDPLearning/Learning/flutter_app_isolate , https://pub.dev/packages/background_fetch , https://medium.com/@sidky/using-streambuilder-in-flutter-dcc2d89c2eae , https://medium.com/flutter-community/understanding-streams-in-flutter-dart-827340437da6		2019-09-16		
Map								
	Google Map integration	2	1	https://github.com/mirantvolansys/FlutterDemo/tree/OtherIDPLearning/Learning/flutter_app_google_map_learn		2019-09-24		
Camera & Gallery								
	Take and Store images, Access From Gallery	2	1	https://github.com/mirantvolansys/FlutterDemo/tree/OtherIDPLearning/Learning/flutter_app_galleryimagefetch		2019-09-26		
Testing & optimization								
	Flutter's build modes	4	1	https://flutter.dev/docs/testing/build-modes		2019-10-21		
	Performance best practices		1	https://flutter.dev/docs/testing/best-practices				
	Performance profiling		0	https://flutter.dev/docs/testing/ui-performance				
Platform integration								
	Writing platform-specific code (Cupertino) Overview	2	1	https://github.com/mirantvolansys/FlutterDemo/tree/OtherIDPLearning/Learning/FlutterNativeCommunication-master , https://github.com/mirantvolansys/FlutterDemo/tree/OtherIDPLearning/flutter-masterAll_tut/examples/flutter_gallery , https://github.com/mirantvolansys/FlutterDemo/tree/OtherIDPLearning/Learning/flutter_app_plat_spec_1		2019-09-30		
Exercises								
	Application which cover	5	1	https://github.com/mirantvolansys/FlutterDemo/tree/OtherIDPLearning/Learning/flutter_app_signup_exercise		2019-10-02		
	Login with Session Mgt and Remember Me		1					
	Signup		1					
	Forgot Password		1					
	Edit and Vuew Profile (Camera and Gallery Access for Photo)		1					
BLE								
	BLE Operations and Testing in Android and iOS Demo using Omron BLE Device	4	1	https://pub.dev/documentation/flutter_ble/latest/ , https://pub.dev/documentation/flutter_blue/latest/ , https://www.iflutter.in/flutter-bluetooth/	Overview bcz device & usb hub is needed	2019-10-10		
	Scanning		1					
	Read		0					
	Write		0					
	Notify Listeners		1					
			47	Out of 51				
Final	25th Oct 2019	Approx						