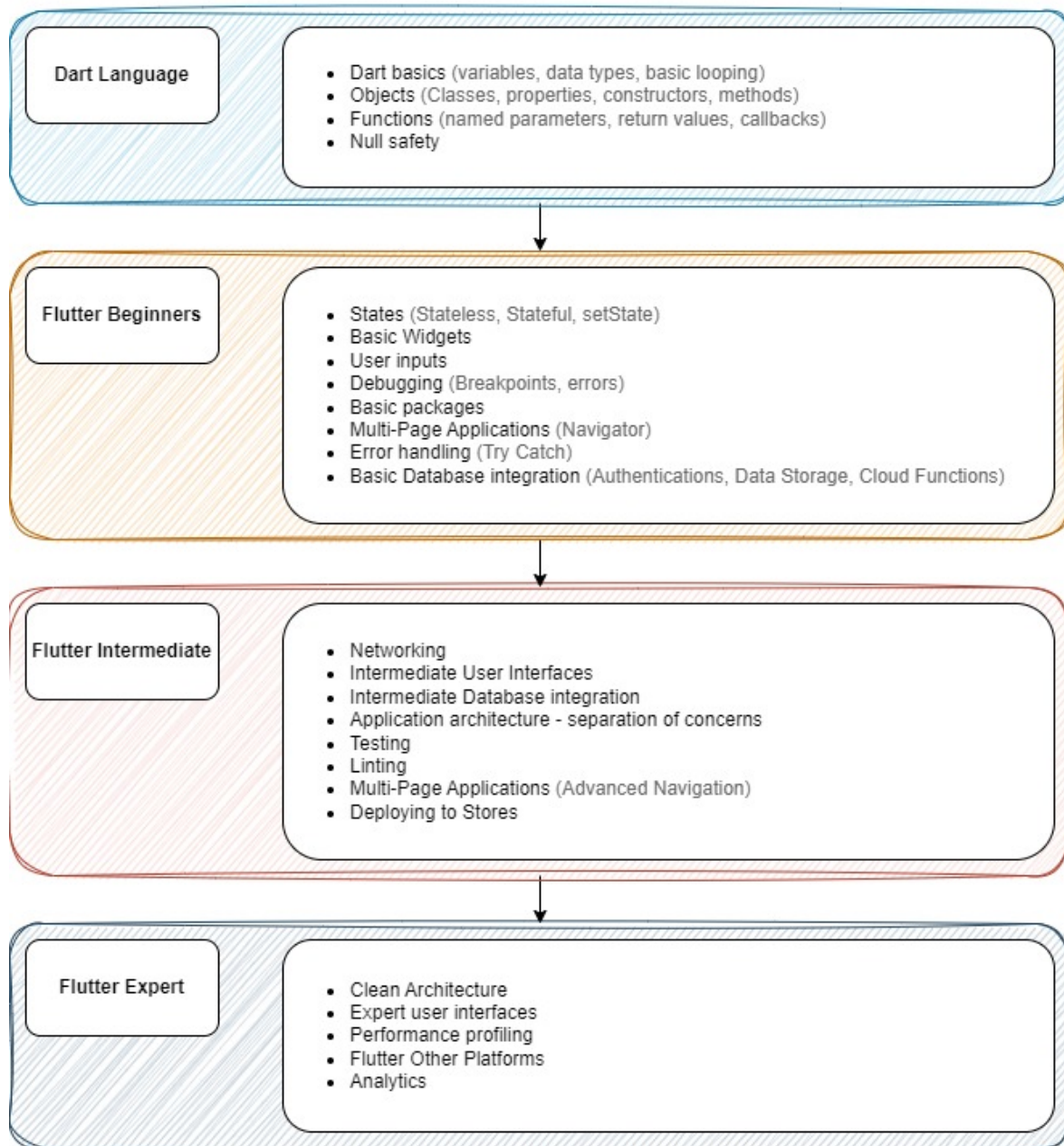


Flutter Roadmap

By Flutter Mapp 

Overview:

- Diagram available for download also (Same email)



Dart Language

Dart basics:

- Variables
- Data types
 - Numbers
 - Booleans
 - Strings
 - Lists
 - Maps
- Basic looping
- Data fundamentals video (FREE):
<https://courses.fluttermapp.com/courses/flutter-for-beginners/lectures/43156060>

Objects:

- Classes
- Properties
- Constructors
- Callbacks

Functions:

- Named parameters
- Return values
- Callbacks

Null Safety:

- Video (FREE):
<https://courses.fluttermapp.com/courses/how-to-learn-flutter-for-beginners/lectures/43158089>

Flutter Beginners

States:

- Stateless
- Stateful
- setState

Basic Widgets:

<ul style="list-style-type: none">- Padding- Expanded- StatelessWidget- StatefulWidget- MaterialApp- TextField- Wrap- Center- Scaffold- AppBar- Container- Image (Asset or Network)- Column- ElevatedButton- SizedBox- SingleChildScrollView- Icon(Icons.profile)- Colors.blue- List.generate- Row	<ul style="list-style-type: none">- IconButton- MaterialBanner- TextButton- OutlinedButton- ListTile- ListView- Divider- TextStyle- Text- Visibility- TextFormField- SnackBar- StreamBuilder- BottomNavigationBar- Drawer- DrawerHeader- SafeArea- CircleAvatar- CheckBoxListTile- GestureDetector
---	---

User Inputs:

- TextField
- TextFormField
- Form

Debugging:

- Breakpoints
- Solving errors

Basic packages:

- Icon launcher: https://pub.dev/packages/flutter_launcher_icons
- Firebase core: https://pub.dev/packages/firebase_core
- Firebase auth: https://pub.dev/packages/firebase_auth

- Cloud firestore: https://pub.dev/packages/cloud_firestore
- SharedPreferences: https://pub.dev/packages/shared_preferences
- Other packages: <https://pub.dev/>

Multi-page application:

- Navigator 1.0
- Example:

```
onTap: () {  
  Navigator.of(context).push(  
    MaterialPageRoute(  
      builder: (context) {  
        return const HomePage();  
      },  
    ), // MaterialPageRoute  
  );  
},
```

Error handling:

- Try Catch

Basic Database integration:

- Authentications: https://pub.dev/packages/firebase_auth
 - Example: <https://www.youtube.com/watch?v=rWamixHIKmQ>
- Data Storage (cloud firestore): https://pub.dev/packages/cloud_firestore
- Cloud functions: https://pub.dev/packages/cloud_functions

Flutter Intermediate

Networking:

- Asynchronous Dart programming (Future, async, await)
- API Calls
- Json parsing
- Http packages (Dio): <https://pub.dev/packages/dio>

Intermediate user interfaces:

- Responsive UI
 - Example here: <https://www.youtube.com/watch?v=yIxEpbyNAy8>
 - Widget: LayoutBuilder
- Animations
 - Example here: <https://www.youtube.com/watch?v=kJQCLrExrns>

Intermediate Database integration:

- Google sign in
- Apple sign in
- Facebook sign in
- Relational database SQLite: <https://pub.dev/packages/sqlite>

Application architecture - separation of concerns:

- Riverpod (Flutter Mapp's favorite): <https://pub.dev/packages/riverpod>
- State managements
 - Provider
 - Riverpod
 - setState
 - InheritedWidget
 - Redux
 - BLoC
 - GetIt
 - MobX

Testing:

- Unit testing (FREE):
<https://courses.fluttermapp.com/courses/hero-to-pro/lectures/38288299>
- Widget Testing (FREE):
<https://courses.fluttermapp.com/courses/hero-to-pro/lectures/38601758>
- Integration Testing (FREE):
<https://courses.fluttermapp.com/courses/hero-to-pro/lectures/38613492>
- Mocks

Linting:

- <https://pub.dev/packages/lint>

Multi-Page Applications:

- Navigator 2.0

Deploying to Stores:

- App Store
- Play Store

Flutter Expert:

Clean Architecture:

- Explained inside the Flutter Pro Course

Expert user interfaces:

- Widget lifecycle (Explained inside the Flutter Pro Course)
- Internationalizing Flutter apps:
<https://docs.flutter.dev/development/accessibility-and-localization/internationalization>

Performance profiling:

- Explained inside the Flutter Pro Course
 - Performance overlay
 - Flutter Run Profile
 - Track Widget Builds
 - Network
 - Cpu profiler
 - Memory

Flutter Other Platforms:

- Flutter Web
- Flutter desktop

Analytics:

- Usage analytics
- Crash logging
- A/B testing

Courses:

Learn Flutter in 15 minutes (FREE)

- Video: <https://youtu.be/aG9uSXdU2sk>

Flutter For Beginners (Available on <https://www.FlutterMapp.com>):

Use code (40% OFF Limited Time Only) : **ROADMAP40**

Or use this link: [Flutter For Beginners 40% OFF](#)



Flutter Pro (Available on <https://www.FlutterMapp.com>):

Use code (40% OFF Limited Time Only): **ROADMAP40**

Or use this link: [Flutter Pro 40% OFF](#)

