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# SUMMARY

Migrate to go\_router 5.0

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**Go Link: flutter.dev/go/go-router-v5-breaking-changes**

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# CHANGES

go\_router v5.0 comes with several breaking changes:

* Redesigned redirection API.
* Removed GoRouterRefreshStream
* Removed navigatorBuilder
* Removed urlPathStrategy

# MIGRATION PLAN

#### New Redirection API

In the previous version, the redirection method takes in a GoRouterState and expects the method to return the result synchronously.

| GoRouter(  …  redirect: (GoRouterState state) {  if (state.subloc != '/login') {  return '/login';  }  return null;  },  );  GoRoute(  …  redirect: (\_) => '/another-route',  ); |
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After go\_router 5.0, the redirection method takes in a new parameter BuildContext in addition to the GoRouteState and expects method to be asynchronous.

To migrate, update the function signature to match the API:

| // Either mark function to be async or return SynchronousFuture<String?>  GoRouter(  …  redirect: (BuildContext context, GoRouterState state) async {  if (state.subloc != '/login') {  return '/login';  }  return null;  },  );  GoRoute(  …  redirect: (\_, \_\_) => SynchronousFuture<String?>('/another-route'),  ); |
| --- |

We also updated the redirection order when there are multiple redirections in route matches.

In the previous version, the [GoRouter.redirect](https://pub.dev/documentation/go_router/latest/go_router/GoRouter-class.html) was called first. If there were multiple [GoRoute.redirect](https://pub.dev/documentation/go_router/latest/go_router/GoRoute/redirect.html)[s] in route matches. Only the leaf GoRoute.redirect was called while intermediate ones were ignored.

After go\_router 5.0, the [GoRouter.redirect](https://pub.dev/documentation/go_router/latest/go_router/GoRouter-class.html) is still called first, but the [GoRoute.redirect](https://pub.dev/documentation/go_router/latest/go_router/GoRoute/redirect.html)[s] are called starting from the top-most GoRoute to the leaf GoRoute. The parent GoRoute.redirect takes priority over children’s. There is no migration plan for this change, and go\_router won’t support the old behavior moving forward.

#### Removed navigatorBuilder

The navigatorBuilder is replaced with the existing builder API on the MaterialApp, CupertinoApp, or WidgetsApp constructor. There are different migration path depending on how the existing applications use this API.

If the applications do not use GoRouterState in this builder, they can switch to [MaterialApp.builder](https://api.flutter.dev/flutter/material/MaterialApp/builder.html) instead.

Existing application:

| final GoRouter router = GoRouter(  …  navigatorBuilder: (BuildContext context, GoRouterState state, Widget child) {  return AuthOverlay(child: child);  },  );  MaterialApp.router(  routeInformationProvider: router.routeInformationProvider,  routeInformationParser: router.routeInformationParser,  routerDelegate: router.routerDelegate,  ); |
| --- |

After migration:

| final GoRouter router = GoRouter(  …  );  MaterialApp.router(  routeInformationProvider: router.routeInformationProvider,  routeInformationParser: router.routeInformationParser,  routerDelegate: router.routerDelegate,  builder: (BuildContext context, Widget? child) {  return AuthOverlay(child: child!);  },  ); |
| --- |

If the applications do use GoRouterState in this builder, they can use ShellRoute instead.

Existing application:

| final GoRouter router = GoRouter(  routes: <GoRoute> [  GoRoute(  path: '/',  builder: (\_, \_\_) => const Text('/'),  ),  GoRoute(  path: '/a',  builder: (\_, \_\_) => const Text('/a'),  )  ],  navigatorBuilder: (BuildContext context, GoRouterState state, Widget child) {  return Scaffold(  appBar: AppBar(title: Text(state.location)),  body: child,  );  }  ); |
| --- |

After migration:

| final GoRouter router = GoRouter(  routes: <GoRoute> [  ShellRoute(  path: '/',  builder: (\_, GoRouterState, child) {  return Scaffold(  appBar: AppBar(title: Text(state.location)),  );  },  routes: [  GoRoute(  path: 'a',  builder: (\_, \_\_) => const Text('a'),  ),  GoRoute(  path: 'b',  builder: (\_, \_\_) => const Text('b'),  )  ],  ),  ]  ); |
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#### Removed GoRouterRefreshStream

This class is removed from go\_router 5.0, and there is no alternative class provided in go\_router. The reason being that this class is unrelated to routing and should not be included in go\_router. To migrate existing applications that use this class, one can copy the class to their code and own the implementation directly.

| class GoRouterRefreshStream extends ChangeNotifier {  GoRouterRefreshStream(Stream<dynamic> stream) {  notifyListeners();  \_subscription = stream.asBroadcastStream().listen(  (dynamic \_) => notifyListeners(),  );  }  late final StreamSubscription<dynamic> \_subscription;  @override  void dispose() {  \_subscription.cancel();  super.dispose();  }  } |
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#### Removed urlPathStrategy

This method is removed from go\_router because it is superseded by [usePathUrlStrategy](https://api.flutter.dev/flutter/flutter_web_plugins/usePathUrlStrategy.html) in Flutter SDK.

To migrate, replace this API with the one in Flutter SDK.

Instead of:

| GoRouter.setUrlPathStrategy(UrlPathStrategy.path); |
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Replace with:

| import 'package:flutter\_web\_plugins/url\_strategy.dart';  void main() {  usePathUrlStrategy();  runApp(ExampleApp());  } |
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