```
[project]
    |
    +---[lib]
    |      |
    |      + ---main.dart
    |      |
    |      + ---[app]
    |      |      + ---dependencies.dart    (service registry)
    |      |      + ---router.dart
    |      |      + ---other_app_wide_stuff.dart
    |      |
    |      + ---[models]
    |      |      + ---user.dart
    |      |      + ---model_a.dart
    |      |      + ---model_b.dart
    |      |
    |      + ---[screens]
    |      |      + --view.dart        (generic View class)
    |      |      + --viewmodel.dart   (generic Viewmodel class)
    |      |      |
    |      |      + --[user]
    |      |      |      + ---user_viewmodel.dart
    |      |      |
    |      |      + --[login]
    |      |      |      + ---login_viewmodel.dart
    |      |      |      + ---login_screen.dart
    |      |      |      + ---[widgets]
    |      |      |             + ---appbar.dart
    |      |      |             + ---body.dart
    |      |      |             + ---float.dart
    |      |      |
    |      |      + --[home]
    |      |      |      + ---home_viewmodel.dart
    |      |      |      + ---home_screen.dart
    |      |      |      + ---[widgets]
    |      |      |             + ---appbar.dart
    |      |      |             + ---body.dart
    |      |      |             + ---float.dart
    |      |      |
    |      |      + --[other_screen]
    |      |      |      + ---other_view.dart
    |      |      |      + ---other_viewmodel.dart
    |      |      |      + ---[widgets]
    |      |      |
    |      + ---[widgets]    (shared widgets)
```

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```
|          |
|          + ---[services]    Notes: adopts dependency inversion principle.
|                   |
|                   + ---rest.dart        (generic library)
|                   |
|                   + --[auth]
|                   |      |
|                   |      + ---auth_service.dart          (abstract class)
|                   |      + ---auth_service_rest.dart      (example implementation class)
|                   |      + ---auth_service_mock.dart      (example implementation class)
|                   |      + ---auth_service_firebase.dart  (example implementation class)
|                   |
|                   + --[other_service]
|                          |
|                          + ---other_service.dart
|                          + ---other_service_rest.dart
|                          + ---other_service_mock.dart
|                          + ---other_service_firebase.dart
|
+---[assets]
|       |
|       + ---[images]
|               + ---image1.png
|               + ---image2.png
|
+---[json-server]
|       |
|       + ---db.json
|       + ---package.json
|       + ---test_request.rest
|
|
+---[backend]
```

```
        ---------------------------------------------------------------------------------
        [backend]   directory structure examples
        ---------------------------------------------------------------------------------

            [backend_rest_nodejs]
                 |
              +---[api]
              |        |
              |        + ---[models]
              |        |        + ---todos_model.js
              |        |        + ---xxxx_model.js
              |        |
              |        + ---[controllers]
              |        |        + ---todos_controller.js
              |        |        + ---xxxx_controller.js
              |        |
              |        + ---server.js
              |        + ---database.js
              |        |
              +---[dev]
                       |
                       + ---[mysql]
                       |        + ---setup_database.sql
                       |
                       + ---[rest_client]
                                + ---test_request.rest



        [backend_rest_firebase]
                 |
              +---[functions]
              |         |
              |        +-index.js
              |         |
              |        +---[node_modules]
              |         |
              |        +---[api]
              |                 |
              |                 + ---[models]
              |                 |       + ---todos_model.js
              |                 |       + ---xxxx_model.js
              |                 |
              |                 + ---[controllers]
```

```
|                    |            + ---todos_controller.js
|                    |            + ---xxxx_controller.js
|                    |
|                  + ---database.js
|
+--[dev]
|      |
|      + ---[rest_client]
|              + ---test_request.rest
|
+--.firebaserc
+--firestore.indexes
+--firestore.rules
```