캡스톤 디자인 **주간 진도 발표**

발표자 : 김가희

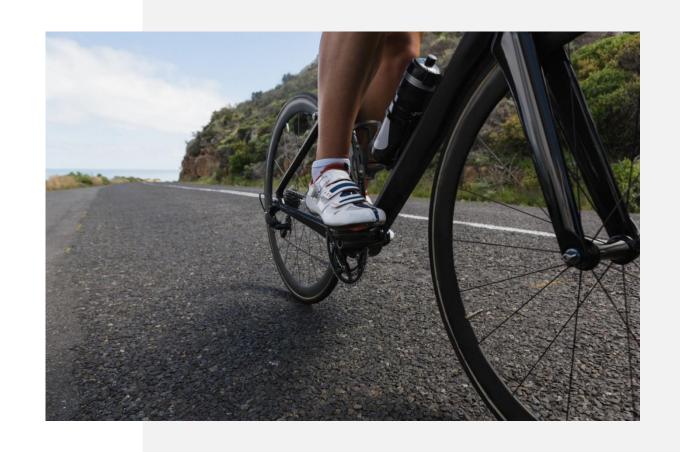
팀장 : 김현성

팀원 : 김가희, 정영훈, 진범식

Bicycle Application 자전거 네비게이션

자전거 네비게이션 기능을 탑재한

자전거 전용 애플리케이션



Bicycle Application

목차

~5/23 개발 현황 및 주요 코드

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기본 화면	장소 검색 화면	내비게이션	데모 영상

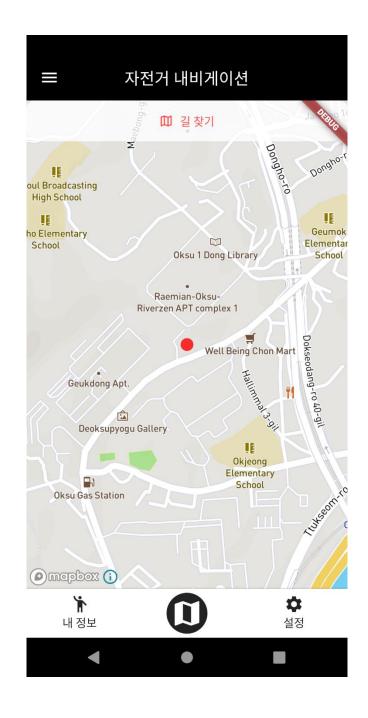
기본 지도화면 주요 코드

map_210521 [D:\FlutterProjects\map_210521] - ...\lib\map.dart [map_210521] - Android Studio

```
<u>File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help</u>
p 210521 🕽 🖿 lib 🕽 🔣 map.dart

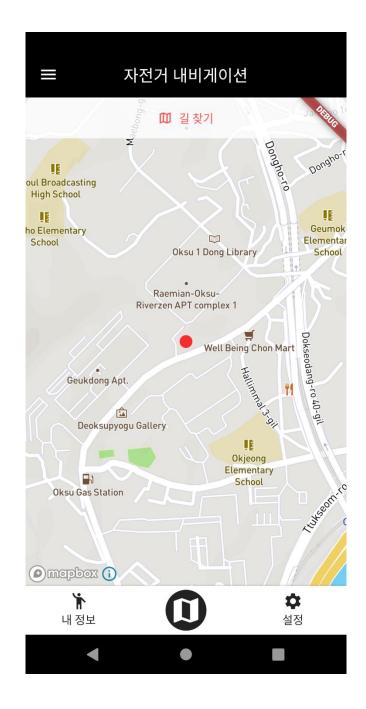
✓ main.dart ▼

                                                                                Pixel 3 API 30
                                 <no device selected> 
    Pr.▼ €
                                talin.dart
                                                myinfo.dart
                                                                  a setting.dart
                                                                                    to map.dart
                                        □ Import | package: | lutter/material.dart ;
      map_210521 D:\(\psi\)Flutter
        .dart_tool
      ▶ 🐼 .idea
                                          import 'package:mapbox_gl/mapbox_gl.dart';
      android 🗎
Resource Manager
                                          import 'search.dart';
      Assets
      build 😹
                                        ⇒class Map extends StatefulWidget{
      ▶ 🛄 ios
                                           @override
      ▼ lib
                                           State<StatefulWidget> createState() => _Map();
            🚜 main.dart
            amap.dart
            map_copy.dart
                                         ∋class _Map extends State<Map> {
            myinfo.dart
            🐔 navi.dart
                                            late MapboxMapController mapController;
            a search.dart
            a setting.dart
                                           @override
                                18 💇
                                           Widget build(BuildContext context) {
      ▶ 📭 test
         flutter-plugins
                                             final String token = 'pk.eyJ1ljoia2ltbW0iLCJhljoiV2tvYmd8
         flutter-plugins-deper
```



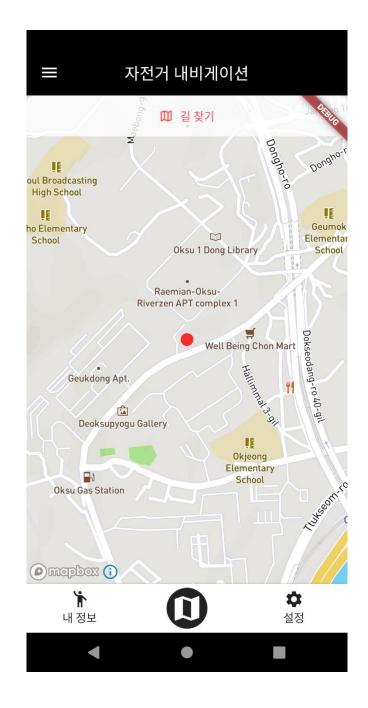
기본 지도화면 주요 코드

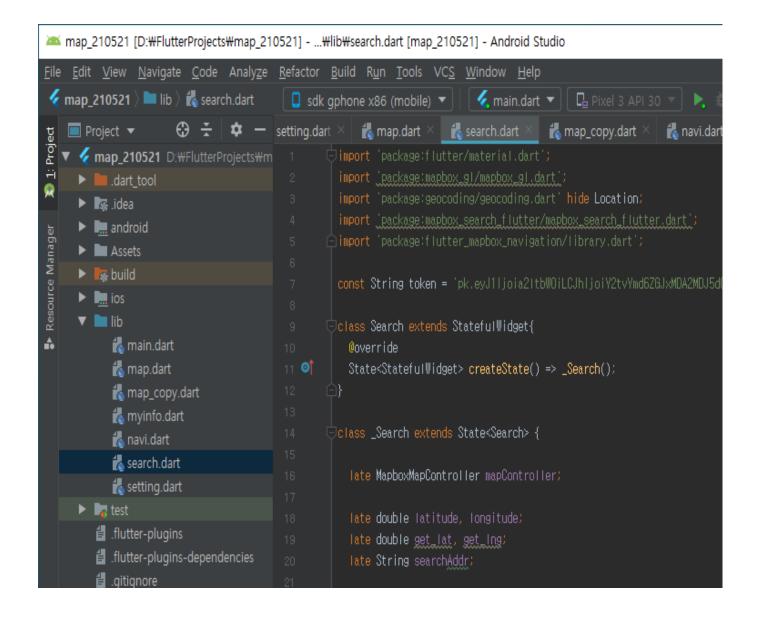
```
return MaterialApp(
⊢home: Scaffold(
  ⊢body: Stack(
     children: <Widget>[
       MapboxMap(
         zoomGesturesEnabled: true.
         accessToken: token,
         initialCameraPosition: CameraPosition(
         zoom: 15.0,
         target: LatLng(37.517235, 127.047325),
         ), // CameraPosition
         onMapCreated: onMapCreated.
        Positioned(
        -child: Container(
           height: 50.0,
           width: double.infinity,
           decoration: BoxDecoration(
               borderRadius: BorderRadius.circular(10.0),
                color: Colors.white.withOpacity(0.8),
           -child: TextButton.icon(
             onPressed: () {
               Navigator.push(
                  context,
                  MaterialPageRoute(
                    builder: (context) => Search()
                  ), // MaterialPageRoute
              icon: lcon(lcons.map_outlined, size: 18),
              Tabel: Text('길 찾기'),
```



기본 지도화면 주요 코드

```
Future<void> onMapCreated(MapboxMapController controller) async {
 setState(() {
    mapController = controller;
 final result = await acquireCurrentLocation();
  await controller.animateCamera(
    CameraUpdate.newLatLng(result),
  await controller.addCircle(
    CircleOptions(
     circleRadius: 8.0.
     circleColor: '#ff0000',
      circleOpacity: 0.8,
      geometry: result,
      draggable: false,
Future<LatLng> acquireCurrentLocation() async {
  Location location = new Location();
  // Whether or not the location service is enabled
```



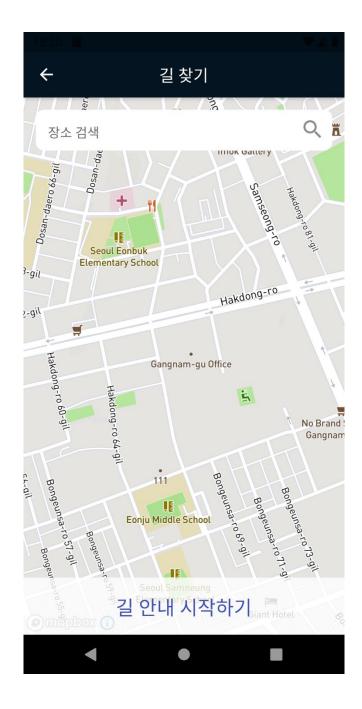




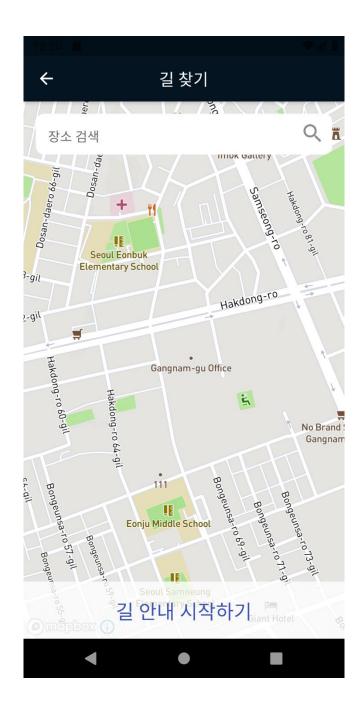
```
body: Container(
— child: Stack(
      children: <Widget>[
        MapboxMap(
          zoomGesturesEnabled: true.
          accessToken: token.
          initialCameraPosition: CameraPosition(
            zoom: 15.0,
            target: LatLng(37.517235, 127.047325),
          ), // CameraPosition
          onMapCreated: onMapCreated,
          onMapLongClick: (point, lating) {
            setState(() {
              get_lat = lating.latitude:
              get_Ing = lating.longitude;
            });
            print(
                 "From Map ${get_lat} |${get_Ing}");
         ), // MapboxMap
                         I/flutter ( 4629): From Map 37.485330498177134 [126.98211737631317]
```



```
Positioned(
 top:15.0,
 Teft: 15.0.
 right: 15.0,
 — child: Container(
     height: 50.0,
     width: double.infinity,
     decoration: BoxDecoration(
       borderRadius: BorderRadius.circular(10.0),
       color: Colors.white
       child: TextField(
         decoration: InputDecoration(
         hintText: '장소 검색',
         border: InputBorder.none,
         contentPadding: EdgeInsets.only(left: 15.0, top: 15.0)
         -suffixIcon: IconButton(
          ├ icon: Icon(Icons.search),
           onPressed: searchandNavigate,
           iconSize: 30.0), // IconButton
           onChanged: (val) {
             setState(() {
```



```
searchandNavigate() {
  locationFromAddress(searchAddr).then((result) {
   mapController.animateCamera(CameraUpdate.newCameraPosition(CameraPosition(
        target: LatLng(result[0].latitude, result[0].longitude),
       zoom: 15,
    ))); // CameraPosition
void onMapCreated(controller) {
 setState(() {
   mapController = controller;
```



```
SafeArea(
 bottom: false,
 -child: MapBoxPlaceSearchWidget(
   popOnSelect: true,
   apiKey: token,
   searchHint: '장소 검색',
    onSelected: (dynamic place) {
     setState(() {
       searchAddr = place;
     });
   context: context,
 ), // MapBoxPlaceSearchWidget
), // SafeArea
Positioned(
  Teft: 15.0,
 right: 15.0,
```

길 찾기 여의도역 여의도역 (ID:19-156) 여의도역 (ID:19-156), 영등포구 의사당대로, Yeongdeungpo-gu, ... 여의도역 여의도역, 여의나루로 지하 40, Yeongdeungpo-gu, Seoul 07328, ... 여의도역 (ID: 19-155 여의도역 (ID: 19-155, 영등포구 의사당대로, Yeongdeungpo-gu, ... 길 안내 시작하기

내비게이션 주요 코드

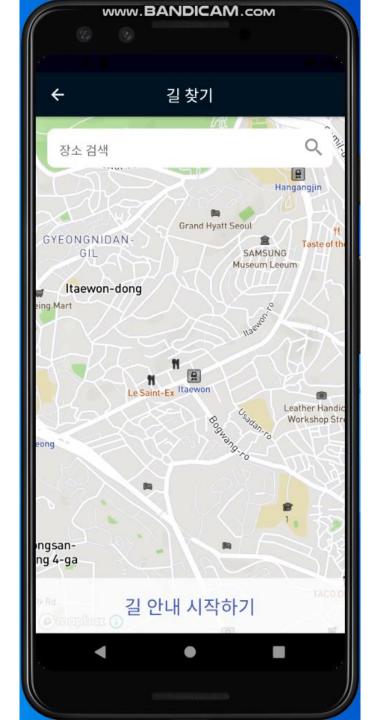
```
Align(
    alignment: Alignment.bottomCenter,
   child: Container(
      color: Colors.white.withOpacity(0.8),
      width: double.infinity,
      height: 70,
     child: TextButton(
          onPressed: () async {
            var wayPoints = <WayPoint>[].
            wayPoints.add(_origin);
            wayPoints.add(
               WayPoint(
                   name: "Way Point 2",
                    latitude: get_lat,
                    longitude: get_Ing) // WayPoint
            await _directions.startNavigation(
               wayPoints: wayPoints,
               options: _options);
          style: TextButton.styleFrom(
             primary: Colors.indigo, // foreground
             textStyle: TextStyle(fontSize: 24)
          child: Text("길 안내 시작하기")
```



데모 영상 1



데모 영상 2



THANK YOU