地理围栏

地理围栏(Geogencing)也叫区域监视(regional monitoring),指的是能够知道设备已进入或离开指定的地图区域。iOS在siri中充分利用了这项功能,使其能够完成类似于下面的任务"在我离开办公室时提醒我带上面包";"在我回到家时提醒我将烤肉放进烤箱"。iOS还在Passbook中使用了地址围栏功能,让用户能够再主屏幕上看到相关的凭证。

在ios8中如果要使用该功能,在申请授权时,需使用 requestAlwaysAuthorization ,因为 requestWhenInUseAuthorization 授权不支持该功能。

定义边界

用GPX文件模拟运行

开启定位服务,确定当前位置;

CLRegion

添加地理围栏区域;

MKCircle

添加圆形覆盖视图,辅助显示围栏区域

```
- (void)viewDidLoad
{
    [super viewDidLoad];
   // Do any additional setup after loading the view.
    //开启定位服务
    self.mapView.delegate = self;
    self.locationManager = [[CLLocationManager alloc] init];
    if ([CLLocationManager authorizationStatus] == kCLAuthorizationStatus
NotDetermined) {
        [self.locationManager requestAlwaysAuthorization];
    self.locationManager.desiredAccuracy = kCLLocationAccuracyBest;
    self.locationManager.distanceFilter = 10;
    self.locationManager.delegate = self;
    if ([CLLocationManager locationServicesEnabled]) {
        [self.locationManager startUpdatingLocation];
   }else{
       NSLog(@"无法使用定位服务");
    }
    //添加地理围栏
    CLLocationCoordinate2D coordinate = CLLocationCoordinate2DMake(34.77,
 113.76887056);
    MKCoordinateRegion region = MKCoordinateRegionMake(coordinate, MKCoor
dinateSpanMake(0.1, 0.1));
    [self.mapView setRegion:region animated:YES];
    CLRegion *regioncl = [[CLCircularRegion alloc] initWithCenter:coordin
ate radius:1000 identifier:@"regioncl"];
    [self.locationManager startMonitoringForRegion:regioncl];
    添加圆形覆盖层,辅助显示围栏区域
    MKCircle *circle = [MKCircle circleWithCenterCoordinate:coordinate ra
dius:1000];
    [self.mapView addOverlay:circle];
}
```

更新当前位置

```
-(void)locationManager:(CLLocationManager *)manager didUpdateLocations:(N
SArray *)locations{
    CLLocation *location = locations.lastObject;

    MKPointAnnotation *point = [[MKPointAnnotation alloc] init];
    point.coordinate = location.coordinate;

    [self.mapView addAnnotation:point];

    if (self.nowAnnotation) {
        [self.mapView removeAnnotation:self.nowAnnotation];
    }

    self.nowAnnotation = point;
}
```

MKCircleRenderer

显示圆形覆盖层视图

```
-(MKOverlayRenderer *)mapView:(MKMapView *)mapView rendererForOverlay:(id
<MKOverlay>)overlay{
   if ([overlay isKindOfClass:[MKCircle class]]) {
        MKCircleRenderer *renderer = [[MKCircleRenderer alloc] initWithCi
rcle:overlay];
        renderer.lineWidth = 2.f;
        renderer.strokeColor = [UIColor redColor];
        renderer.fillColor = [UIColor colorWithRed:0 green:1 blue:0 alpha
:.5];
        return renderer;
    }
    return nil;
}
```

设备进入或者离开监视区域后,位置管理器将这一点告诉其委托:调用方法:locationManager:didEnterRegion:或 locationManager:didEnterRegion:获取监视区域的标示符。这个标识符是在让位置管理器对区域监视时指定。

```
-(void)locationManager:(CLLocationManager *)manager didEnterRegion:(CLReg
ion *)region{
   NSLog(@"====%@", region.identifier);
}
-(void)locationManager:(CLLocationManager *)manager didExitRegion:(CLRegi
on *)region{
   NSLog(@">>>>>@", region.identifier);
}
```