

iTourCU

//The goal of this app is to inform the user about the buildings they are close to while walking through the University of Colorado at Boulder.

//if user would like, the user can pick a set route through campus that guides the user through campus visiting most buildings.

//User can pick a building and will be guided to the building

UserLocation = user location

building1 = preset latitude/longitude coordinates for different buildings

building2 = preset latitude/longitude coordinates for different buildings

...

buildingX = preset latitude/longitude coordinates for different buildings

create captions to go along with each coordinate (building)

build a route for the tour

```
if(user would like a tour){  
    set route using apple maps  
    once user at beginning  
        call buildingInformation(userLocation)  
}
```

```
function buildingInformation(userLocation ) {
```

```
    if (location <= 20 feet from building){  
        userHeading = user heading  
        //use this to determine if buildings are to the left or right of user
```

```
        if ( > one building <= 20 feet away){  
            display closest building first
```

```
            display pin over buildingX  
            if (building is right of the user){  
                print("building to the right is", buildingX)  
                display preset caption for building  
                activate speech of caption
```

```
    }  
    else if (building is left of the user){  
        print("building to the left is", buildingX)  
        display preset caption for building  
        activate speech of caption  
    }  
}  
}
```