

ParkFinder

Workspace

Github:

- Repository: https://github.com/diegocaboj/MAD2024_DiegoCabo_LuciaZayas
- Releases:
https://github.com/diegocaboj/MAD2024_DiegoCabo_LuciaZayas/releases

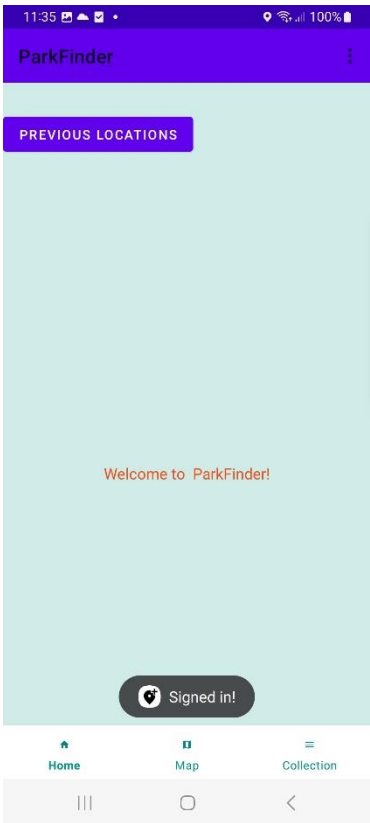
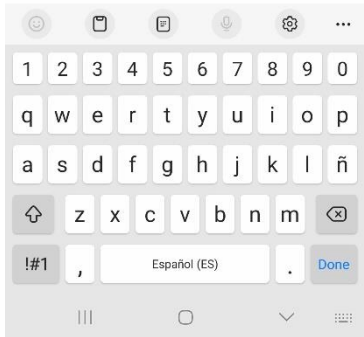
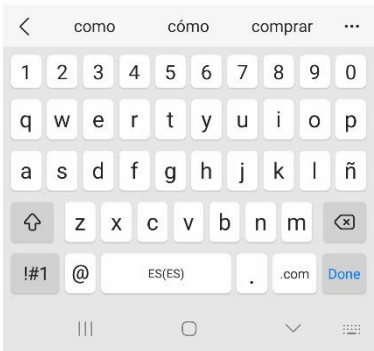
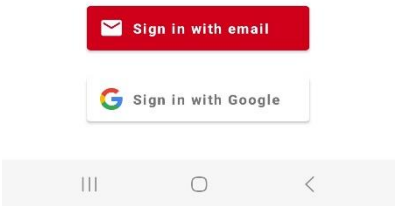
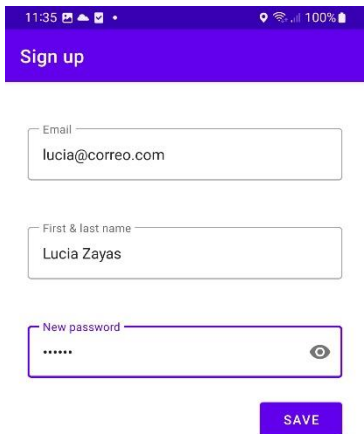
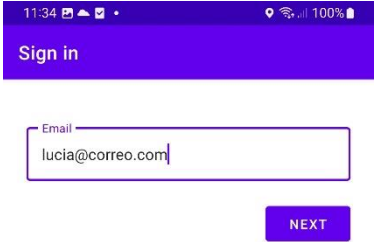
Workspace:

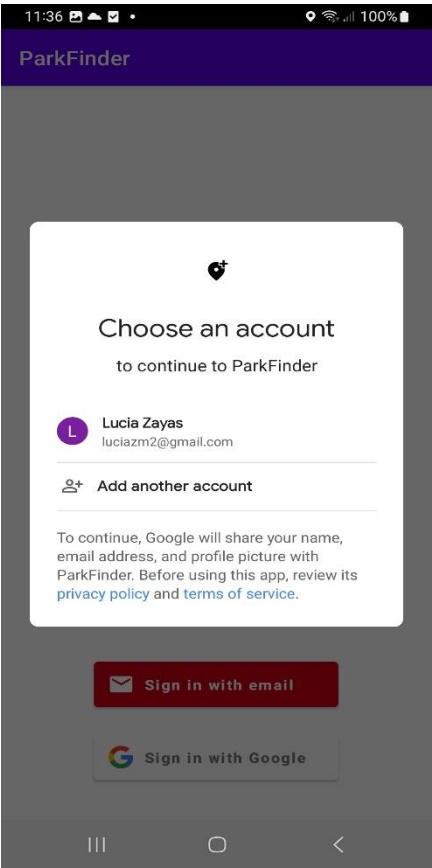
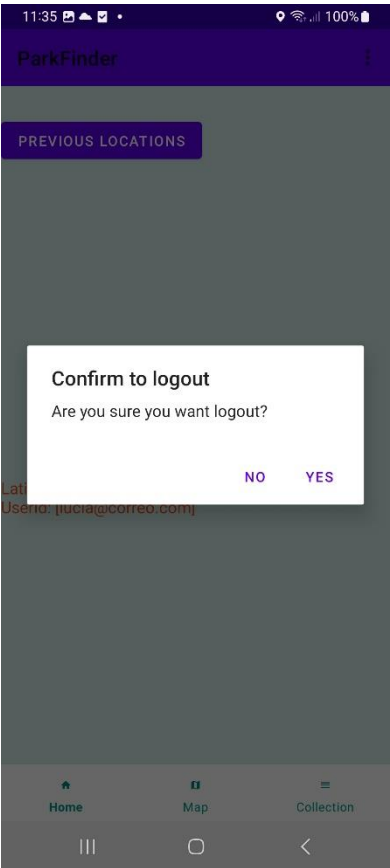
https://upm365.sharepoint.com/sites/MobileAppDevelopment_DiegoCabo_LuciaZayas/SitePages/CollabHome.aspx

Description

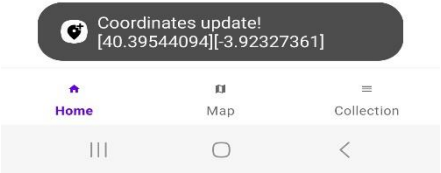
ParkFinder is an application focused on parking in Madrid. It features a map that shows parking locations and your current location. On this map, there is a button that tells you which parking lot is closest to you. ParkFinder also keeps a history of your locations and provides information about the parking lots, such as the street name where they are located, the price, the number of spaces, etc. It stands out from many other applications because you can use it without having to keep your location active, thanks to a feature that allows you to manually enter coordinates and a maximum distance. All the parking lots within that distance from the specified location will be displayed.

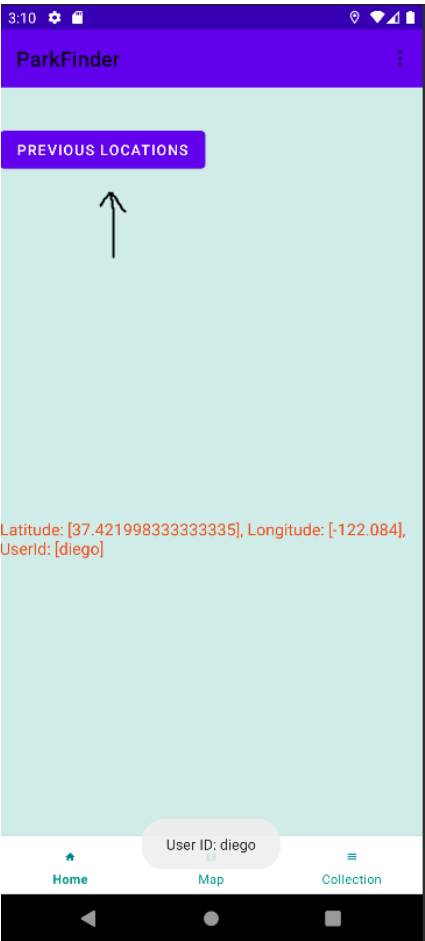
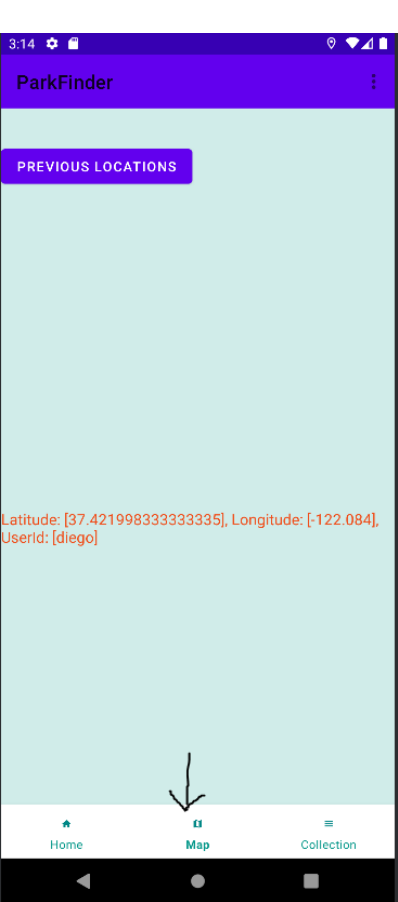
Screenshots and navigationv





11:36 100%
userIdentifier: luciazm2@gmail.com



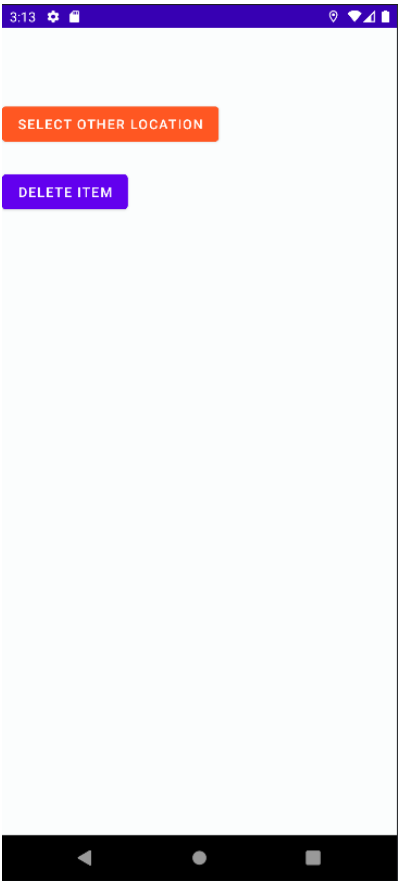


3:11

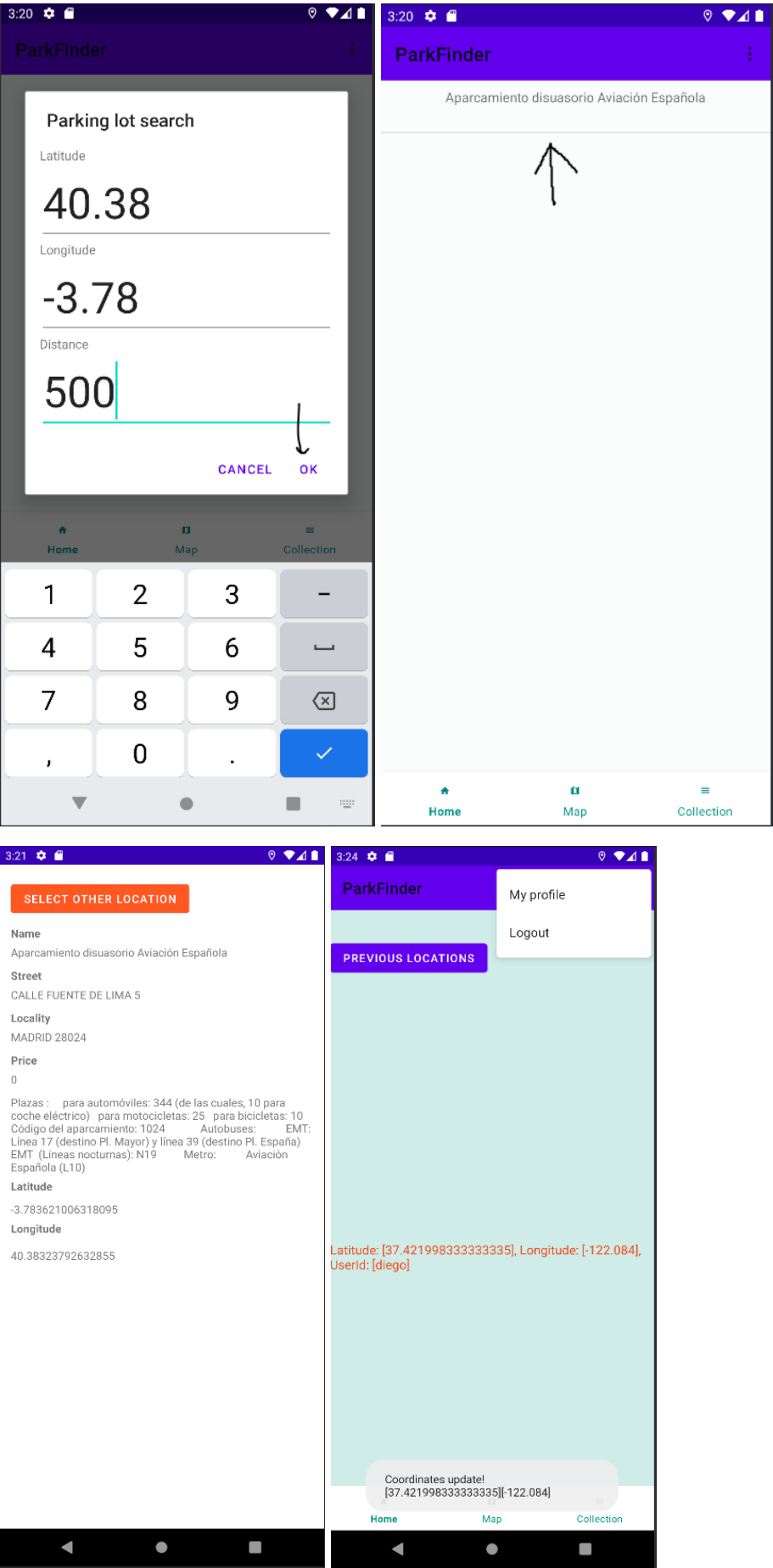
ParkFinder

Date/time	Latitude	Longitude
2024-03-27 01:25:29	37.421998	-122.084000
2024-03-28 05:40:48	37.421998	-122.084000
2024-03-28 05:41:04	37.421998	-122.084000
2024-03-31 01:20:46	37.421998	-122.084000
2024-03-31 18:09:10	37.421998	-122.084000
2024-03-31 18:17:39	37.421998	-122.084000
2024-03-31 18:19:35	37.421998	-122.084000
2024-03-31 18:46:59	37.421998	-122.084000
2024-03-31 18:48:39	37.421998	-122.084000
2024-03-31 18:56:04	37.421998	-122.084000
2024-03-31 18:56:11	37.421998	-122.084000
2024-03-31 18:56:33	37.421998	-122.084000
2024-03-31 19:03:18	37.421998	-122.084000
2024-03-31 19:13:18	37.421998	-122.084000
2024-03-31 20:36:36	37.421998	-122.084000
2024-03-31 21:02:41	37.421998	-122.084000
2024-03-31 21:02:41	37.421998	-122.084000
2024-03-31 21:03:45	37.421998	-122.084000
2024-03-31 21:05:05	37.421998	-122.084000
2024-03-31 21:11:54	37.421998	-122.084000

Home Map Collection







Demo Video

[PKotlinCAw16](#)

Features

1. Functional

- The user can view public parking lots in Madrid on the map and also see their current location, and see which one is closer.
- They can access with different users, with a current email and password or through Google. They will also be able to see with what email you have entered the application once inside it. And also logout.
- They will have a collection of all the locations with the coordinates and the date from where they have used the application. Which can be delete it if the user wants to.
- The application allows you to do a filtered search through the coordinates and distance range from your location with the public parking lots in Madrid. In addition, just like from the map, they will also be able to see which are the closest parking lots from your location with a distance range of 600 meter by default.

2. Techincal

- Maps: Openstreetmaps
- APIs use:
<https://datos.madrid.es/portal/site/egob/menuitem.c05c1f754a33a9fbe4b2e4b284f1a5a0/?vgnextoid=26e6cc885fcd3410VgnVCM1000000b205a0aRCRD&vgnnextchannel=374512b9ace9f310VgnVCM100000171f5a0aRCRD&vgnextfmt=default>. We use the API to display parking information
- We add a toolbar and botton navegtion
- Persistence in room database
- Persistence in shared preference
- Firebase Authetication.

How To Use

This application is aimed at residents of Madrid, but in the future, it will be available to more citizens across Spain. It is compatible with the vast majority of mobile devices.

Guide:

1. Log in by clicking on "Login".
2. Enter your username.
3. If you have location services enabled, click on the map and then click the "Which parking is closest" button to see which parking lot is nearest to you.

Diego Cabo, Lucia Zayas

4. If you do not want to or cannot enable your location, click on "Collection" and enter coordinates and the maximum distance for which you want to search for parking.
5. Click on the parking lots to get more information.
6. To delete a location, click on "Home", then "Previous Locations", select one of them, and click "Delete Item".
7. You can view your profile information by clicking the three dots in the top right corner of the home screen and selecting "My Profile", or you can log out by clicking "Logout".

Participants

List of MAD developers:

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Lucía Zayas (lucia.zayas@alumnos.upm.es)

Releases

PKotlinCAw16

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