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Reading Buses Timetable

Description

This app gives you access to everything you would need to travel around Reading using Reading Buses. Everything from live timetables to offline access standard timetables, like bus stop maps and more!

Intended User

Travellers in Reading that use Reading Buses

Features

Main Features include:

- Gives live predicted bus arrival time
- Offline access to timetables
- Favorite bus stop feature for quick access to the bus stop you use everyday

User Interface Mocks

This will be the start screen, the circles will be buttons. Please note, the colour scheme will be different. I think the layout of the start screen is fairly new and bold and will look really nice with material design colours, this app will be for phones only to start with, so no need to worry about a tablet start screen!

This will the bus route selector screen for both the offline view and the live view.
After the user has selected a route, he will either be shown a map with the bus stops that the bus will stop at, using google maps locally cached maps then the user will choose the bus stop they want. After this either a pdf of the timetable will be shown (offline mode), or live arrival times of the bus will be shown in a listview.

Key Considerations

How will your app handle data persistence?

I will build a content provider to populate my bus timetable list views with.

Describe any corner cases in the UX.

So the user can go back to the main menu from the bus timetable view by pressing the back button twice, pressing it once will lead to the bus route chooser view.

Describe any libraries you'll be using and share your reasoning for including them.

I will be using the Google play services library, in order to get the user's current location as it is a lot quicker that using the Google maps Api to get the location. Google maps library, for locally storing a map so that you can access it offline!

Next Steps: Required Tasks

Task 1: Project Setup

Create a start screen with all the main menu options and add material design to it!
Also implement all the other activities required and make them launch as soon as the respective buttons are clicked using Intent.

Task 2: Implement UI for Each Activity and Fragment

- Build UI for all the activities
- Implement material design

Task 3: Download data

Configure the app to download the correct information for each bus route from the travel line api. Do this on an AsyncTask. Then implement a content provider to populate a listview.

Task 4:Offline maps

Configure the app to store the needed maps locally so that it can be used offline!

Task 5: Error handling

Handle all the errors and test the app to find bugs and fix them

Task 6: Create a free and paid version

Using gradle create a free and paid flavour, one with banner ads and the other without!