

Good afternoon

We are Group 20

The application we created is called ParkIT!

### INTRO

Ever found mall car park rates too expensive, prefer cheaper HDB car parks but didn't know where they are or if they're full?

Help users to find nearby car parks and reflect the parking rates for the car parks.

### LOGIN

Welcome to the login page.

Firstly, let's create an account, we can click on "Register" or "Sign up"

The application will direct to the account creation page, where the user will have to key in their name, email and valid password. Once done click Sign up.

It will log you in directly.

Lets try logging out and back in again. Simply click log out.

Key in your credentials, this time with a wrong password.

It will prompt us that there is an "Invalid email or password"

Trying with the correct password and click "Sign in"

### DASHBOARD

So now that we have logged in, this is our main page or dashboard, you can see we have the sidebar, we also have this beautiful google map and we have a search bar, and a filter button.

### CHANGE PASSWORD

Let's say we want to change our password, we can head over to the Change Password on the sidebar, click it and it will bring us to the "Change Password" page.

Simply enter the current password, and the new password you want.

If passwords are different, it will prompt new passwords do not match. If successful, it will say "Password updated successfully"

Lets log out to see if this new password works.

We can key in the old password, it should not work

Now we key the new password, we will be signed in.

## HOMEPAGE

Let us go back to the homepage. You can see the map over, you can drag it around, interact with it, or zoom in and out.

Let us try to search for a location. For example, JEM.

Type JEM into the search bar, and click on search.

The map will now show all the HDB car parks near JEM within a 3km distance.

This allows users to choose the car parks they want to visit.

As you can see below, the car parks are also listed here and not just as icons on the map.

## FILTER

We can further filter the search to sort by “Nearest Carpark”, “Most Available Slots”, and “Cheapest Parking Rate”.

Let's try that

You will see that the car parks are now sorted by the different filters, we can remove the filter and all the car parks will be back to their default sorting.

We fetch the availability of the car parks via a Google Maps API to provide real-time data to the users, which is reflected in the details of the car parks.

The application's UI will show nearby car parks, which users can view by simply pressing the icon.

Let's pick this car park and favourite it, we'll get to that later.

## GOOGLE MAP

If you tap the directions button

The application opens a tab to Google Maps.

## CHECK-IN/CHECK-OUT

We also help users track how long they have parked and the amount of expense they have accumulated.

Once they have arrived at the car park, simply click the check-in button, and the application will start a timer and help to calculate based on the parking rates of the car park and the duration. We use a Strategy Pattern so the details will be in our database and synced to the history page and the expense dashboard as well.

After your dinner, date, or trip, once you come back to the car, simply click check-out and the application will stop the timer, you will be able to see how much your parking cost.

Add in check in multiple locations

Click on map icons

Click scroll below

### FAVOURITES

To allow ease of use for the users, we have a favorites system. Simply search up the car park that you want to go to frequently and tap on the favourite icon. To easily view and manage your favourites, head on to the favourites pages easily accessible through the side bar. Everything is that easy.

As you can see the car park we chose to favourite was here. You can also unfavourite it, it will just remove it from the page. This function makes it easy to check in and out of your favourite car parks and usual parking locations.

### HISTORY

We also have a history page that keeps tabs on the car parks that the user has visited. Click onto the History page and you will find the list of car parks that you have parked at.

### EXPENSE DASHBOARD

That's not all, we also track how much expense you had, based on which car parks they have parked at and the parking rates of the car park. We can track how much we've spent on car parking expenses, and allow us to better plan our finances. After parking at different car parks, we have a small list of parking expenses. We can click on the Expense Dashboard and it will bring us to this page, where you can view all your expenses within the month.

### FEEDBACK

We value feedback as it helps us to improve! Access the feedback system through the sidebar, type and submit your feedback via the application, hassle-free.

That's the end of our application walk-through.