

On-Time Order Pickup, powered by Google Maps APIs Increase customer satisfaction and provide more precise delivery times

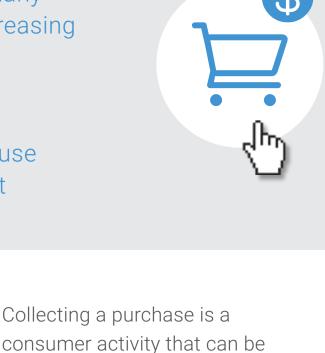
using Google Maps APIs.

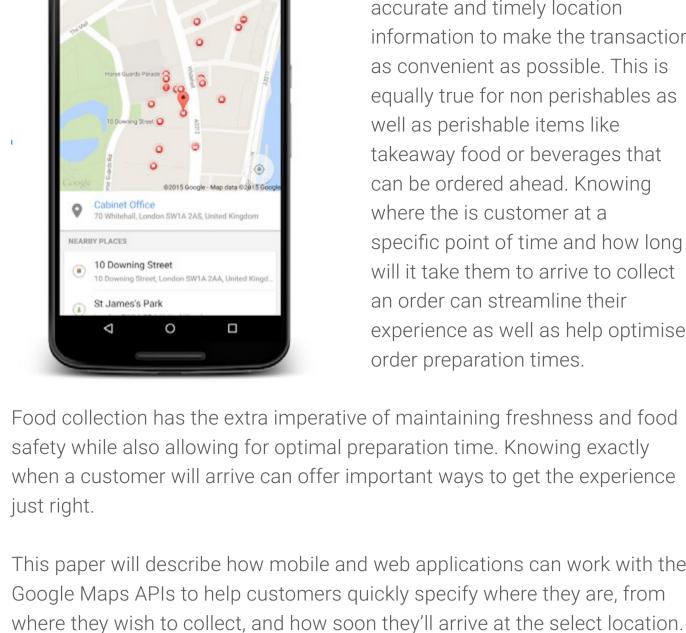
new delivery options that are increasing in popularity: O Click and collect from store O Collect from depot or warehouse

While many retailers rely on delivery for

customer purchases, there are many

Occident Street Control Control
Occident Street Cont





Pick a place

equally true for non perishables as well as perishable items like takeaway food or beverages that can be ordered ahead. Knowing where the is customer at a specific point of time and how long will it take them to arrive to collect an order can streamline their experience as well as help optimise order preparation times. Food collection has the extra imperative of maintaining freshness and food safety while also allowing for optimal preparation time. Knowing exactly when a customer will arrive can offer important ways to get the experience This paper will describe how mobile and web applications can work with the

greatly improved through the use of

information to make the transaction

as convenient as possible. This is

accurate and timely location

Base decisions on customer location Accurately identifying your user's location helps to make more impactful

decisions. To do this, there are a number of strategies you can employ. Your choice will depend on whether you need the current location of the customer or their planned location, for example on their way home after work or a night out; and what information you need about their location, for example latitude

and longitude, street address, business name, current traffic conditions, or live

Most mobile devices and browsers have built-in capabilities to determine an accurate location and even reverse geocode it (convert the latitude, longitude position to a human-readable address).

Make your app or website location aware

transit schedules.

Services library provides this function using a number of observed signals as input. Many browsers implement the Geolocation API to perform the same operation. Remember that your users need to opt-in to share their location with you. Use named places to prompt the user and reduce typing You might need to let the user specify a location, in which case speed,

advantage. Google's Places API can be accessed through native Android and

iOS libraries, via the Places Library in the Javascript Maps API, or through

direct calls to an HTTP endpoint, giving you the flexibility to implement the

usability and a rich dataset of real world places will give your app the

On Android devices the FusedLocationProvider in the Google Play

same fast, comprehensive search across a number of platforms—with a consistent experience for your customers. For example, use a Place Picker to suggest locations like pubs, restaurants and metro stations, or use Autocomplete to rapidly suggest places based on what the user types. If your customers sign-in to Google Maps through the API then they can

access their starred locations, such as "Home" or "Work" to help you provide

Add a Place Picker to an Android app

1. Use the PlacePicker.IntentBuilder() to construct an Intent.

the builder to set the initial latitude and longitude bounds of the map

2. If you want to change the place picker's default behavior, you can use

Here is a summary of the steps required to launch the place picker:

them the most convenient collection locations.

int PLACE PICKER REQUEST = 1;

PLACE PICKER REQUEST);

method will return null.

Help customers find you

}

Traffic

Buildings

Indoor

My Location

Handbags

W 35th St

using things they can see.

O Confirm using a map.

looks like.

Google Maps for use next time.

startActivityForResult(builder.build(this),

PlacePicker.getLatLngBounds().

displayed by the place picker. Call setLatLngBounds() on the builder, passing in a LatLngBounds to set the initial latitude and longitude bounds. These bounds define an area called the 'viewport'. By default, the viewport is centered on the device's location, with the zoom at city-block level.

3. Call startActivityForResult(), passing it the intent and a

pre-defined request code, so that you can identify the request when the result is returned. The following Android code snippet launches the place picker:

PlacePicker.IntentBuilder builder = new PlacePicker.IntentBuilder();

When the user selects a place, you can retrieve the place by calling

You can also retrieve the most recent bounds of the map by calling

PlacePicker.getPlace(). If the user has not selected a place, the

The following code snippet retrieves the place that the user has selected: protected void onActivityResult(int requestCode, int resultCode, Intent data) { if (requestCode == PLACE PICKER REQUEST) { if (resultCode == RESULT OK) { Place place = PlacePicker.getPlace(data, this); String toastMsg = String.format("Place: %s", place.qetName()); Toast.makeText(this, toastMsg, Toast.LENGTH_LONG).show(); } }

map data can provide extra context to help. If you manage your business presence on Google Maps using Google My Business then opening times can be combined with StreetView and photos to help guide them to the location.

Cosmetics

An indoor Google Map with floor level picker, created with the Android Maps API.

Make your app or mobile website location aware.

Use POI locations to prompt the user - quicker than typing.

For more information, see our "Improve the Shopping Cart Checkout

Experience with Autocomplete API" whitepaper: goo.gl/qmbxxK

Layers Normal W 34th St

Perfumes

Women's Accessories

Let customers quickly specify a location

Not everyone knows the postcode of their current location. Orient them

① Use Autocomplete if they need to type - fewer keypresses required

If they are signed in, they can use saved locations or save your to

① Use StreetView to show them what the restaurant or collection point

Choose the most convenient collection point

MAC

Level 1

Fine

Jewelry

6:00

5

4

3

2

1M

1

Men's /

Women's Watches

Register

0

abla

To guide your customers to an indoor collection point, Google Maps' indoor

using live and predicted travel time Google Maps API gives you access to live and predicted travel times by road and by transit, allowing you to prepare collections according to the most probable time a customer will arrive. For example, if a customer orders hot food or drinks, you can start making them just in time. If a customer has a preferred collection time for their purchase, you can suggest the time they should set off from their planned location at that time. If there are a number of choices of location where they could collect their purchase, you can compare them all and suggest the most convenient according to traffic conditions or transit schedules at various times of day. Use current travel conditions to choose the best collection time The Google Maps Directions API lets you calculate durations and directions based on live traffic conditions and real time transit information (where it is being supplied to Google). Specify the earliest collection time based on known conditions. Suggest when to leave for a chosen collection time The Directions API can also estimate the most optimistic and pessimistic

will geocode them. The destinations are listed separated by the pipe (I) character. For a secure deployment, send the following from a proxy server to keep the client secret: https://maps.googleapis.com/maps/api/distancematrix/json? origins=Wimbledon,UK& destinations=Croydon, UK | Sutton, UK | Kingston, UK | Richmond, UK& mode=driving& departure_time=1482339600& traffic model=pessimistic& key=YOUR_API_KEY The response will include one element for each origin-destination journey

},

}, "duration" : { "text" : "23 mins", "value" : 1363 "duration_in_traffic" : { "text": "29 mins", "value" : 1765 "status" : "OK" }, "distance" : { "text" : "7.0 km", "value" : 7017 }, "duration" : { "text": "17 mins", "value" : 1004 "duration_in_traffic" : { "text": "23 mins",

"duration_in_traffic" : { "text" : "55 mins",

> "text": "9.0 km", "value": 8964

"value" : 3273

"status" : "OK"

"distance" : {

},

"value" : 1407 "status" : "OK" "distance" : { "text": "12.8 km", "value" : 12757 }, "duration" : { "text" : "29 mins",

"value" : 1757 "duration_in_traffic" : { "text" : "38 mins", "value" : 2295

"status" : "OK"

"status" : "OK" }] }

],

}

convenient for your users.

Asia Pacific

maps-success-japac@google.com

sure that the orders you receive will be collected from the location that's most

WANT TO FIND OUT MORE?

Our Customer Success team will work with you to determine how the solution will work best for your organization. For more information about this offering or to learn more about how customizing Google Maps can impact your business,

please contact us at:

com

North and South America

maps-success-americas@google.

Europe, Middle East and Africa

maps-success-emea@google.com

Put it all together Now you can build an app that incorporates user location into your collection ordering process in a way that requires a minimum amount of interaction from your customers. Having obtained their accurate location, you can be

that has been calculated. Each element contains the distance, duration and { "destination_addresses" : ["Croydon, Greater London, UK", "Sutton, Greater London, UK",], "rows" : [{ "elements" : [{ "distance" : { "text" : "13.4 km", "value" : 13394 }, "duration" : { "text" : "29 mins", "value": 1769

Choose the most convenient collection point for a given time with your own knowledge of the busiest store times you can provide the most responsive overall customer service for a given time of day and earn the **Predicting Journey Times with Directions API** and Distance Matrix API (>) Select the best location for a collection from a range of choices using traffic conditions and transit schedules. > Help your customers by letting them know when they need to set off to be on time. ① Use live and predicted travel times to manage the preparation of customer orders for the best in-store experience.

journey durations for a time in the future. So to collect my purchase at 5pm, I might need to allow an extra 15 minutes to get there on time compared to collecting it at 2pm. The same principle applies to deciding from where to collect. The Distance Matrix API can evaluate up to 625 journeys per request, and through multiple simultaneous requests, up to 1000 per second by default when if you sign up for the Premium Plan. So you can build a decision engine that can suggest a further location if it would actually be a faster travel time. By combining this loyalty of your customers by minimising the time they have to wait.

The following code sample shows how to ask for the pessimistic prediction of driving time between Wimbledon, in South West London, and four local major shopping centres on a Monday afternoon in December 2016.

The origin and destinations are specified as text - the Distance Matrix API

duration_in_traffic for that journey. In this example the quickest destination in the most likely worst case traffic conditions is Kingston, and it will usually be possible to drive there in 23 minutes or less - so we could inform a user to allow at least 20 minutes to arrive for a collection at 5:30pm. "Kingston upon Thames, Greater London, UK", "Richmond, Richmond, Greater London, UK" "origin_addresses" : ["Wimbledon, London, UK"],