To address the above described problem, I will use Foursquare APIs to create a list of suggested hotels, resorts, tourist attractions, restaurants & shopping areas.

The end product will accept the coordinates of the destination airport or railways station or any famous location.

# Based on that, I will use the Foursquare API's "explore" endpoint to get recommendations for hotels & resorts. The recommendation will contain up-to 10 suggestions within 5km radius by default, both of these numbers can be changed by user by passing arguments.
e.g. of API call:

# For each hotel recommendation up-to 5 near by restaurants suggestions will be provided, which will fetched by using the Foursquare API's "search" endpoint which will use "checkin" parameter to decide the popularity.

The user can provide a list having types of restaurant he/she is interested in (e.g. Sushi Restaurant etc.) and price range as well. The price points will be [1,2,3,4], 1 being the least expensive, 4 being the most expensive and it will depend on the coverage provided by the Foursquare API.

```
e.g. of API call:
```

```
url t =
```

```
cli_id,
cli_scrt,
version,
lat,
lng,
radius,
limit)
```

# The product will also suggest up-to 20 recommended & popular spots within a radius on 10km using the combination of Foursquare API's "explore", "trending" & "search" endpoints.

```
e.g. of code:
```

```
df_exp_trnd_src = pd.concat([nearby_venues, trending_venues, search_venues]).drop_duplicates()
```

Since the application is intended to be dynamic where the data changes with the input from the user, I am not pushing any pre-compiled data on the Github. I will fetch the recommendations & trending locations dynamically at the time of application creation using Foursquare APIs.