

FORECAST IT

Data Base Management Systems | Term Project | Date: 11/14/2018

AN INTEGRATED SOLUTION TO RETRIEVE THE TEMPERATURE, LOCATION
AND AVAILABLE CUISINES AT ONE TAP.

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1. Scope of project:

DATA INEGRATION ISN'T THE STRATERGY OF THE PAST.IT IS THE STRATEGY FOR THE FUTURE.

The purpose of this project is to implement the Global as View approach in data integration. **Data integration** involves combining data residing in different sources and providing users with a unified view of them. This process becomes significant in a variety of situations, which include both commercial (such as when two similar companies need to merge their databases and scientific (combining research results from different bioinformatics repositories, for example) domains. The Know before you go project will collect data from three different data resources and provide the user with integrated view of the location on the **GoogleMaps, WeatherLocations** and the available **Cuisines** of the city entered by the user.



“FORECAST IT” takes and integrates data from three data sources:

- ❖ **Google Maps:** It takes data from <https://www.google.com/maps>. This data source consists of latitude, longitude , geocode, city, country, zipcode,
- ❖ **Weather:** It takes the data from <https://www.wunderground.com/>. This data source consists of alerts,almanac,astronomy,conditions,currenthurricane,forecast,forecast10day,geolookup,history,hourly,hourly10day,planner,rawtide,satellite,tide,webcams,yesterday.
- ❖ **Zomato:** It takes the data from <https://Zomato.com/>. This data source consists of categories,cities,collections,cuisines,establishments,geocode,location_details,locations,dailymenu ,restaurant,reviews,search

2. Project requirements

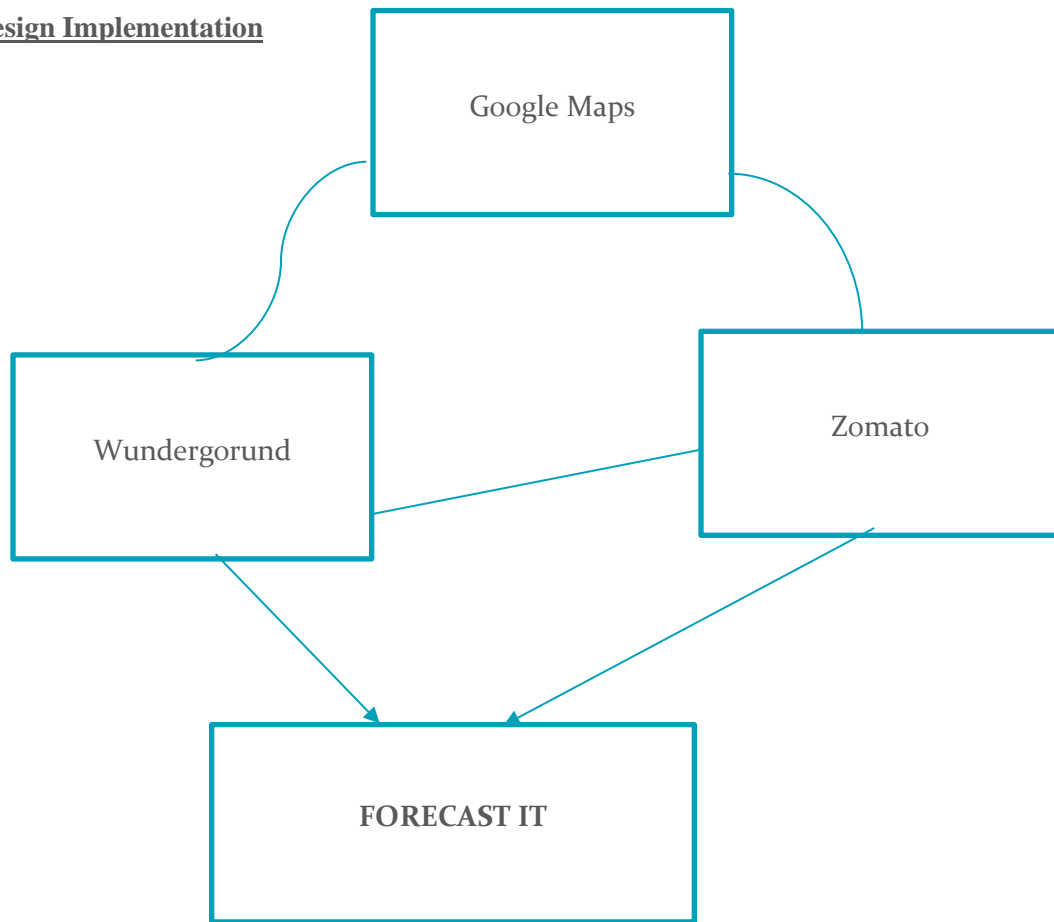
The purpose of this project is to give the integrated and organized view of 3 data bases. It has been implemented on Global as a view approach. We have developed it using Java Script and have used HTML to display the results when the user clicks on search button on entering the CityName.CSS is used for styling the integrated page.

It has been tested and found to be working on various browsers listed below:

- Google Chrome
- Edge
- Mozilla Firefox
- Safari



3. Design Implementation



4. Schema Description:

LOCAL SCHEMA:

GoogleMaps:

S1 (City,Map)

City

Map

Weather ():

S2 (Date, City, High_Fahrenheit , Low_Fahrenheit, City, CurrentConditions, Forecast)

Date:

City:

High_Fahrenheit:

Low_Fahrenheit:

City:

CurrentConditions:

Forecast

Zomato():

S3 (City, ListOfCuisines)

GLOBAL SCHEMA:

Forecast (W_location, Map_location, Current_Conditions, ForeCast Conditions, ListOfCuisines)

W_Location

Map_location

Current_Conditions

ForeCast Conditions

ListOfCuisines



5. Limited Source Capabilities

Source capabilities templates are used to describe which attribute will be used in querying the object. The concept of Limited Source capabilities are described as follows:

- ☐ f: may or may not specify
- ☐ u: cannot be specified
- ☐ b: must be specified
- ☐ c[S]: specified from a list S
- ☐ o[S]: optional, choose from a list S

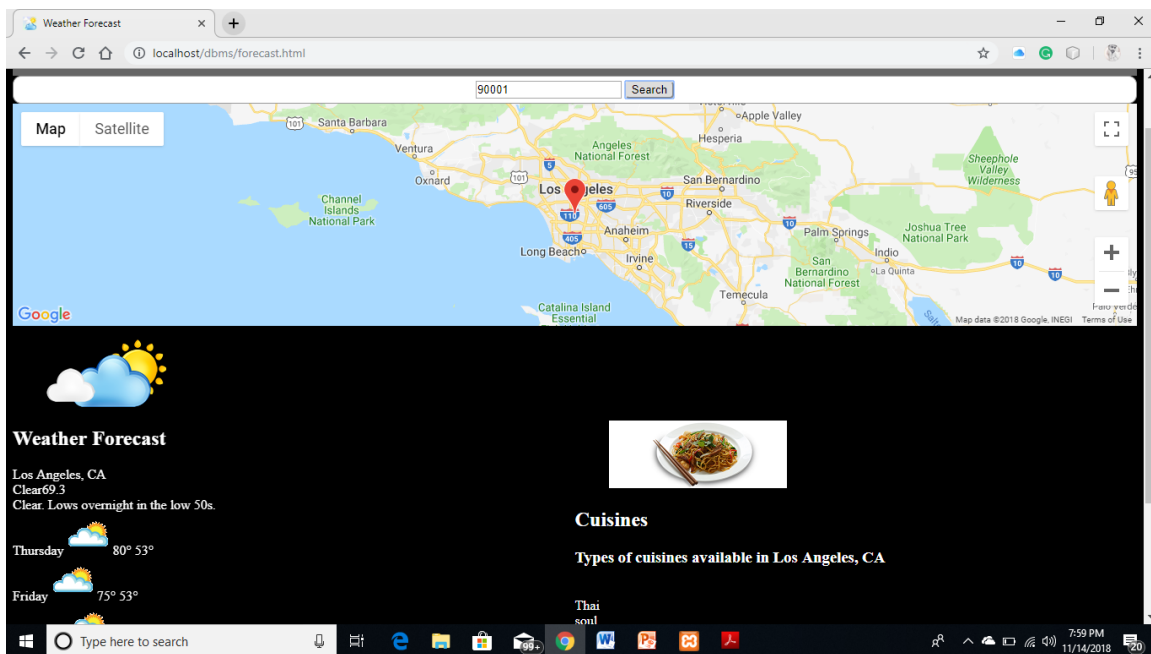
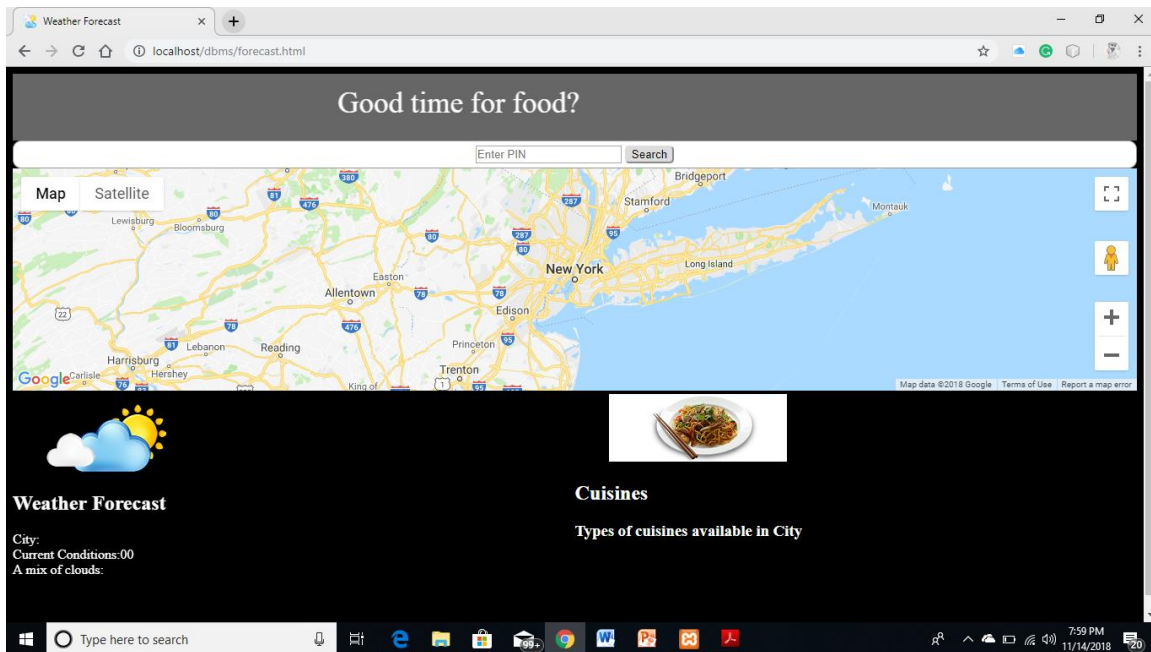
Forecast:

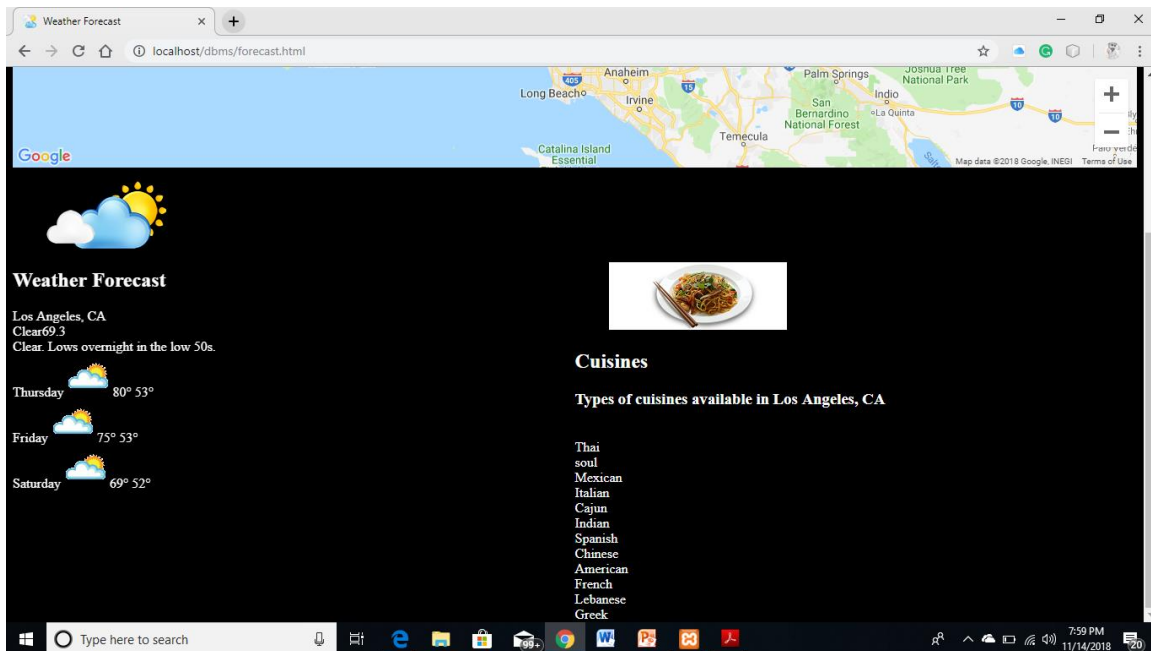
Forecast (W_location,Map_location,Current_Conditions,ForeCast Conditions,ListOfCuisines)

W_location	Map_location,	Current_Conditions	ForeCaseConditions	ListOfCuisines
f	b	f	f	C[s]



6. Screenshots:





7. Conclusion:

We have integrated the data sources from three sources using a single global schema for users to determine the weather conditions, location on Google maps and derive the available cuisines in the city provided by the user.

8.Future Enhancements:

In the near future, this project will be made more user friendly and additions of more data sources can be done like adding list of Hotel Rooms, Tourist Places. Also, addition of Ewallet can be thought of by implementing MD5 160bit algorithm for secure payment. This will be major implementation and will be very useful and beneficial for the user.

