



# E -Tourism Application

Powered by : Semantic Web

---

# An app for tourist to find tourist places and cuisines

Objective

Resources

Procedure

SPARQL Integration

---

# Objective

Now a days we are rushing for speed. Semantic web offers excellent choice to suffice this appetite. The app is designed to make SPARQL queries entirely from the client-side.

This approach is better than the ones offered by mash-up sites and apps that uses third-party APIs as almost no maintenance will be required. Our app being only dependent on semantic web databases DBpedia and WikiData, has the advantage of less maintenance, better quantity of data. We focussed on making a semantic web powered tourism app.

# Features

---

- Various locations inside and outside of India.
- Support for Cuisines, Historic sites and Tourist attractions.
- Uses multiple datasets.
- Sterling input query searching procedure covering for the absence of data linking.
- Querying on the client side for faster data.
- Presents the linked images on MealDB and Wikipedia.
- Linking to the relevant pages.
- Retrieving the coordinates of the locations and linking to google map.
- Easily deployable. Deployed on heroku.

# Cuisines

Welcome TOURISTS!

Andhra

Cuisine

Tourist Places

## Andhra cuisine

**Vada (food)**



**Sambar (dish)**



**Gongura**

Oh jeez not available!

**Aam papad**

Oh jeez not available!

**Ilish**



**Puri (food)**



**Mung bean dosa**



**Ragi mudde**



**Dosa**



# Tourism Spots

Welcome TOURISTS!

Andhra

Cuisine

Tourist Places

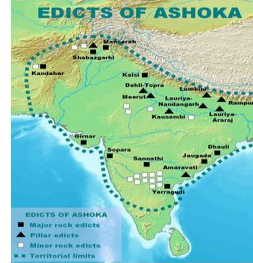
**Andhra Pradesh**

[Show map](#)

**Nagarjuna Konda**



**Amaravathi Mahachaitya**



**Paritala Anjaneya Temple**



# Providing better search support

**Challenge** - Search Query: “Odisha” -> “Odia\_cuisine”

**Approach** - String similarity matching using **Sørensen–Dice coefficient**, a superior algorithm to Levenshtein distance.

$$DSC = \frac{2|X \cap Y|}{|X| + |Y|} \qquad DSC = \frac{2TP}{2TP + FP + FN}$$

---

# Linking to the corresponding co-ordinates on map pointing location on map

Welcome TOURISTS!

Andhra

Cuisine

Tourist Places

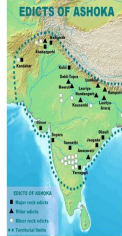
Andhra Pradesh

[Show map](#)

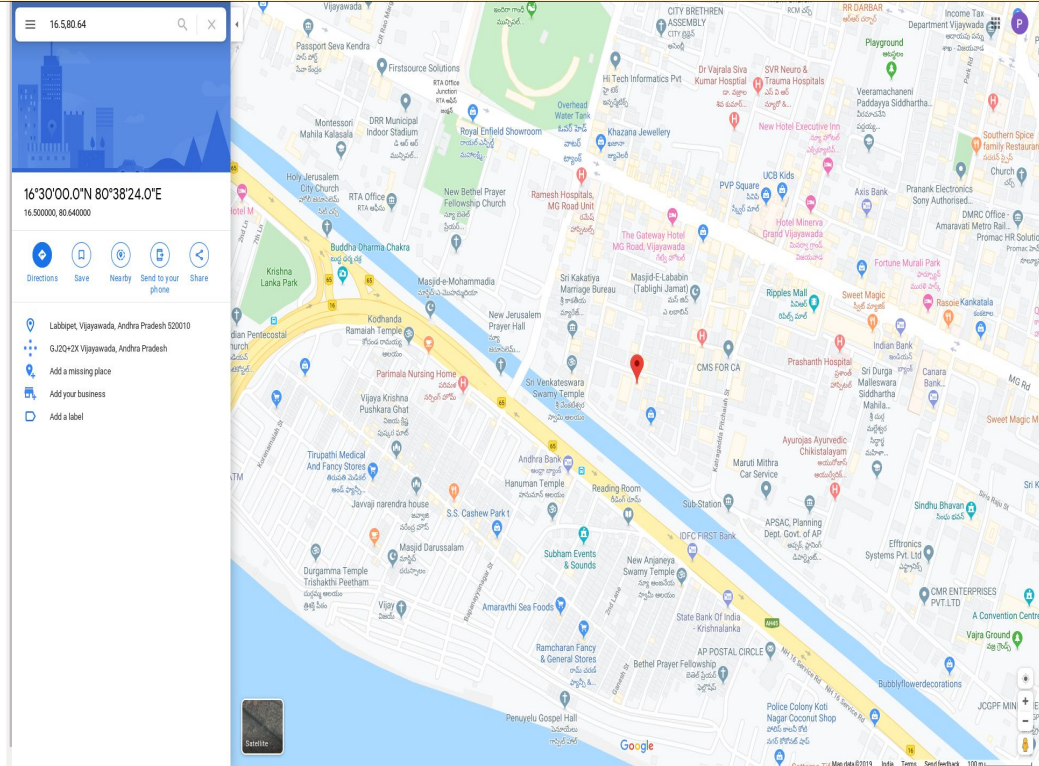
Nagarjuna Konda



Amaravathi Mahachaitya



Paritala Anjaneya Temple





# Datasets used

- DBpedia
- WikiData
- MealDB





# Future Scope

- Support for all countries.
- Intelligently suggesting places, based on users location and past other information.
- Better UI and design.



# Team Members

- Rohit (17CS30028)
- Aaryan Bhagat (17CS10001)
- Ayush Kaushal (17CS10006)
- Prashant RamNani (17CS10038)