

CHAPTER V

IMPLEMENTATION AND TESTING

5.1. Implementation

This project utilizes features provided by Google Maps. One of these features is Google Places Library. Google Places Library is a javascript library that makes it possible to find a place in a particular region. For example, the region of geographic location or point of interest. To use this library, user need to attach API key on the HTML file like the example below.

```
src="https://maps.googleapis.com/maps/api/js?key=AIzaSyCs3eHoC6ZwHGSwk3S8eovP70Hu3T7TgYs&callback=initMap">
```

Figure 2: Google Maps API Key.

```
<?php
$inputfile = file("./datanya.txt");
$countarray=count($inputfile);
echo 'var koskosan = [';

for($i=0;$i<$countarray;$i++)
{
    $tempdelimiter = explode(",",$inputfile[$i]);
    echo
    '{
        namakost: "'. $tempdelimiter[1].'",
        lat: '. $tempdelimiter[2].',
        long: '. $tempdelimiter[3].',
        deskost: "'. $tempdelimiter[4].'",
        harga: '. $tempdelimiter[5].'
    },';
}
?>
```

Figure 3: Process Data.

Figure 3 shows the code for displaying the data into the map obtained from the data txt. Data collection using arrays. In the code there are 5 array keys. Which are:

1. namekost: name of boarding house.
2. lat: lattitude coordinate.
3. long: longtitude coordinate.
4. deskost: description of boarding house.
5. harga: price of boarding house.

```

datanya.txt x
5 5,Kost Putra, -7.029089, 110.411597, Kamar mandi luar. Dekat dengan GOR Jatidiri. Dekat dengan tempat makan, 300000,
6 6,Kost Putra, -7.021701, 110.398432, Pinggir jalan raya. Dekat dengan UNTAG. Kamar mandi luar, 400000,
7 7,Kost Putri, -7.020932, 110.396908, Ada jam malam. Kamar mandi luar. Ada fasilitas laundry., 400000,
8 8,Kost Putri, -7.020840, 110.396965, Ada jam malam. Prla dlarang masuk. Kamar mandi luar, 430000,
9 9,Kost Putri, -7.020992, 110.397443, Pinggir jalan raya. Kamar mandi dalam. Ada jam malam., 400000,
10 10,Kost Putri, -7.021040, 110.397498, Pinggir jalan raya. Kamar mandi dalam. Prla dilarang masuk. Ada fasilitas laundry, 525000,
11 11,Kost Putri, -7.020736, 110.396566, Dekat dengan tempat makan. Dekat dengan Masjid. Ada jam malam. Kamar mandi luar, 425000,
12 12,Kost Putri, -7.020669, 110.396611, Dekat dengan tempat makan. Dekat dengan Masjid. Ada jam malam. Kamar mandi luar, 400000,
13 13,Kost Putri, -7.020599, 110.396656, Dekat dengan tempat makan. Dekat dengan Masjid. Ada jam malam. Kamar mandi luar, 400000,
14 14,Kost Putra, -7.020869, 110.396429, Kamar mandi luar. Sebelah rumah tbu kost, 350000,
15 15,Kost Putra, -7.020802, 110.396502, Kamar mandi luar. Ada yang bersih2 seninggu sekali. Dekat dengan tempat makan, 375000,
16 16,Kost Putra, -7.020207, 110.396215, Jadi satu dengan bapak kost. Kamar mandi luar. Ada parkir mobil, 450000,
17 17,Kost Putra, -7.020488, 110.396623, Didepan kost ada warung makan. Kamar mandi luar., 325000,
18 18,Kost Putra, -7.020593, 110.395953, Kamar mandi luar. Dekat dengan warung makan. Dekat dengan pos kamling., 325000,
19 19,Kost Putra, -7.021039, 110.395787, Kamar mandi luar. Dekat tempat makan., 300000,
20 20,Kost Campur, -7.027780, 110.406309, KOST VALENTINE. Ada tempat makan wilayah kost nya. Kamar mandi dalam & luar., 650000,
21 21,Kost Campur, -7.028286, 110.406627, KOST GARUDA. Parkir luas mobil & motor. Kamar mandi dalam & luar. Security 24jam., 700000,
22 22,Kost Campur, -7.028587, 110.407129, KOST VICTORY. Parkir luas mobil & motor. Kamar mandi dalam & luar. Security 24jam., 700000,
23 23,Kost Campur, -7.028780, 110.406676, KOST HEBRON. Parkir cukup untuk 2 mobil. Dekat dengan pitu masuk unika. Kamar mandi dalam & luar., 650000,
24 24,Kost Campur, -7.027381, 110.405828, KOST ANUGERAH. Banyak terdapat tempat fokopl. Banyak jajanan didepan kost. Kamar mandi dalam & luar., 650000,
25 25,Kost Campur, -7.027051, 110.405644, KOST KAMPUNG ASRI. Depan pintu masuk unika. Terdapat banyak tempat makan. Kamar mandi dalam & luar., 750000,
26 26,Kost Putri, -7.025093, 110.403956, KOST GRIYA FELICIA. Rm Moms Cook. Depan pintu unika tengah. Kamar mandi dalam., 550000,
27 27,Kost Putri, -7.029525, 110.408849, KOST GRIYA BAYU ARTHA. Dekat dengan indomaret. Kamar mandi luar., 350000,
28 28,Kost Putri, -7.025205, 110.402641, KOST DEWI SARTIKA. Dekat dengan warung angrkringan. Parkir motor luas. Kamar mandi dalam & luar., 550000,
29 29,Kost Putri, -7.027041, 110.4057002, AGAPE HOUSE. Depan lapangan futsal unika. Banyak tempat makan. Dekat pintu masuk unika., 550000,
30 30,Kost Putri, -7.0284707, 110.4066894, KOST YUSTII AYU. Depan kost valentine. Pinggir jalan raya. Kamar mandi dalam & luar., 550000,
31 31, Kost Putri, -7.0286571, 110.4069788, KOST WISMA HIJAU. Sebelah kost victory. Pinggir jalan raya. Kamar mandi luar & dalam., 500000,
32 32, Kost Putri, -7.0291366, 110.4070666, KOST JULIETTE. Ada parkir mobil. Pinggir jalan. Security 24jam. Kamar mandi dalam., 600000,
33 33, Kost Putri, -7.0291759, 110.4080441, KOST ROMA. Pinggir jalan raya. Ada jam malam. Lokasi strategis. Kamar mandi luar., 450000,
34 34, Kost Putra, -7.026048, 110.409614, lalalala, 600000,
35 34, Kost Putra, -7.023194, 110.411627, ASAsa, 600000,

```

Figure 4: Data txt.

Figure 4 is an example of data stored in a txt file. Data contains description of each boarding house.

5.2. Testing

Once processing program is completed, then testing program as follows:

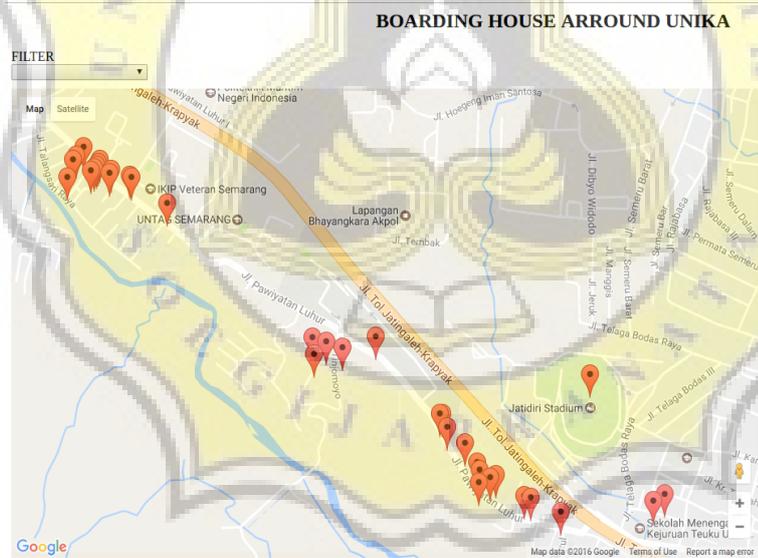


Figure 5: Main Page.

The picture above shows the main page of the application. The red markers are location of boarding houses located around campus of Soegijapranata Unika Semarang, Central Java.

BOARDING HOUSE AROUND UNIKA

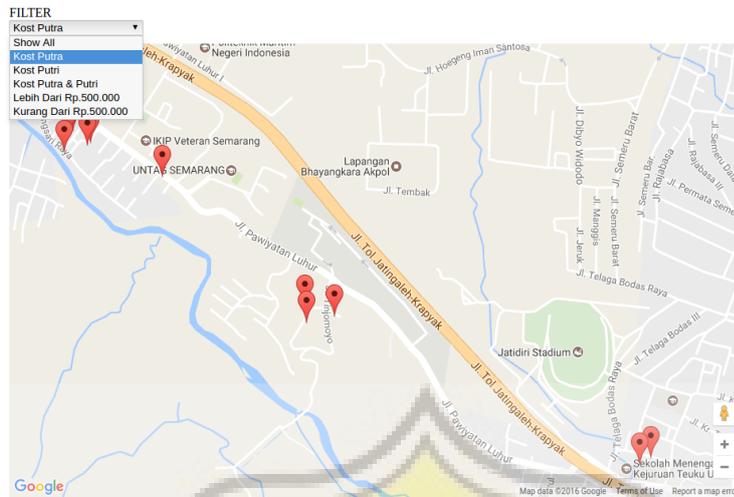


Figure 6: Filter.

Figure 6 shows map after filtering process. Filter applied after choosing category from dropdown filter. Available categories for filtering are boarding houses for male, female, and both, also boarding houses with price under Rp.500.000,00 or above Rp.500.000,00.

BOARDING HOUSE AROUND UNIKA

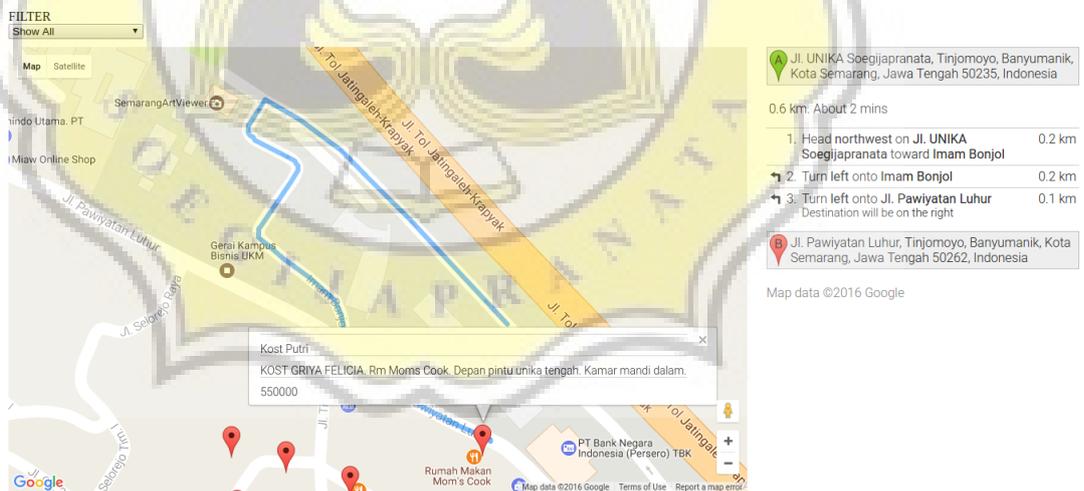


Figure 7: Direction.

The picture above displaying information of a selected boarding house. When user click on a marker, the application will show the direction from Unika to boarding house on the right of the map. The direction will be displayed in the form of travel time, distance. An

information window on the marker will show description of the boarding house.

BOARDING HOUSE ARROUND UNIKA

NO :

KOST :

LAT :

LONG :

DESKRIPSI :

HARGA :

FILTER

Figure 8: Input Data.

Figure 8 is the display will input data into txt. Users can fill out forms and immediately submitted, so the data will be automatically entered into txt.

BOARDING HOUSE ARROUND UNIKA

NO :

KOST :

LAT :

LONG :

DESKRIPSI :

HARGA :

FILTER

Figure 9: Input Lat and Long.

Figure 9 above shows the display to input the latitude and Longitude automatically based on the current location, so it will automatically be detected where the current location.