



**The User Guide for R Web
Shiny Apps on “REGISTERED
PERSON WITH DISABILITIES in
MALAYSIA”**

Capstone Project of WQD7001 –
Principles of Data Science

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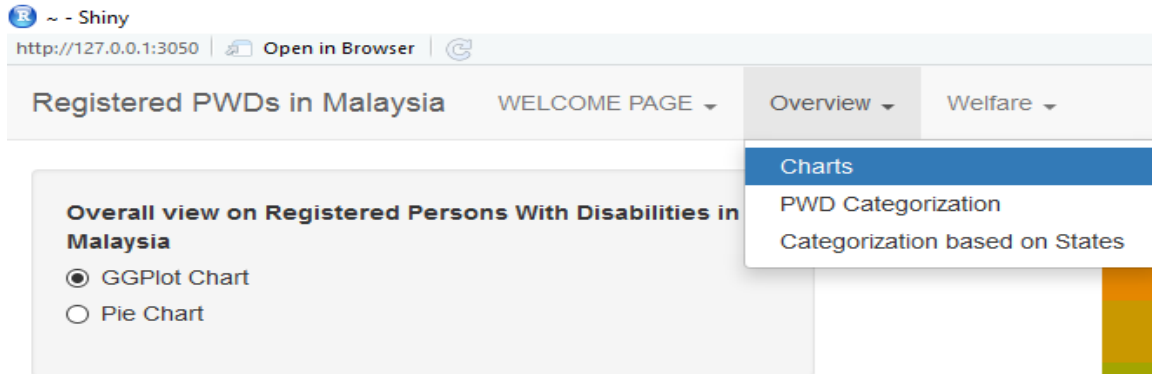
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1.0 Overview

There are 3 items have been listed in overview option. First will be the charts, then person with disabilities categorization, and the categorization based on states in Malaysia.

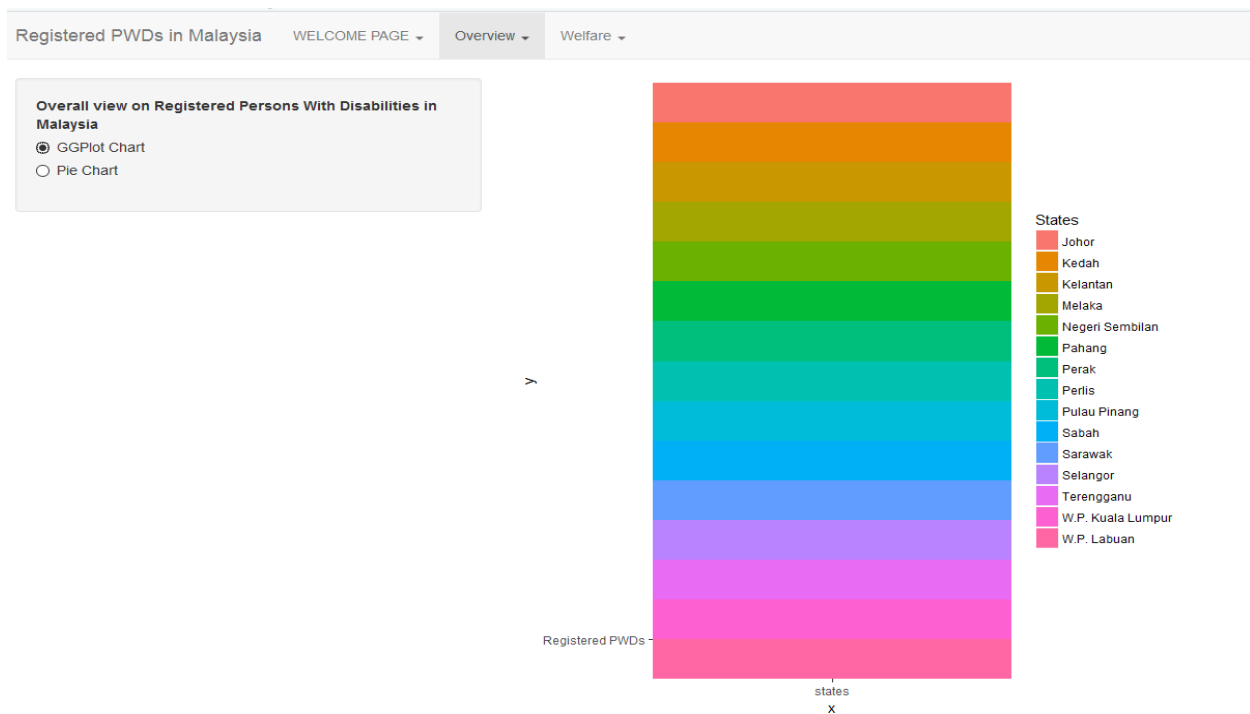
1.1 Charts

The charts will provide brief overall view on registered persons with disabilities in Malaysia.



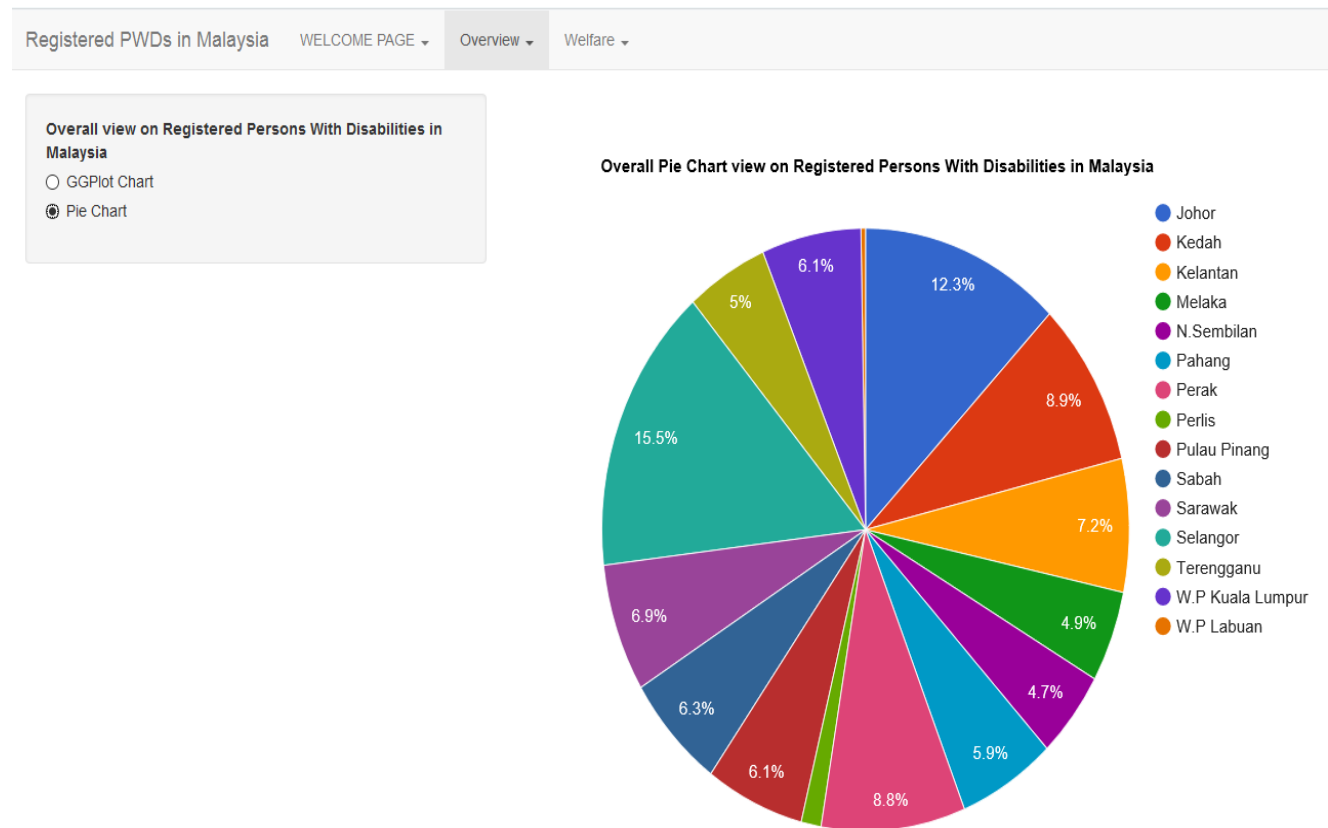
1.1.1 GGPlot Chart

GGplot is form of stack chart based on registered PWDs on every state. Each color code present every states in Malaysia.



1.1.2 Pie Chart

Pie chart has been produce based on simple mathematic calculation with percentage for every state based on the total PWDs in Malaysia. There also color code for each state to have better differentiate.



1.2 Persons with Disabilities Categorization

The next item is PWD categorization, where it been split into 3 categories.

The screenshot shows a dashboard titled "Registered PWDs in Malaysia". It has a navigation bar with "WELCOME PAGE", "Overview", and "Welfare". The "Overview" tab is selected. On the left, there's a section titled "Types of PWD's categorization :" with three radio buttons: "Registration of PWD's by State", "Registration of PWD's by Category of Ethnic Groups", and "Registration of PWD's by Category of Age Groups". The "Registration of PWD's by Category of Age Groups" is selected. On the right, there's a table showing age groups and their counts.

| Age Group | Count |
|-----------|-------|
| 7 - 12 | 1, |
| 13 - 18 | 1, |
| Total (a) | 3, |

1.2.1 Persons with Disabilities by State

The first category is registered PWDs in every state in Malaysia. It will represent the total registered PWDs for each state.

The screenshot shows the same dashboard as before, but with the "Registration of PWD's by State" radio button selected. On the right, there's a table showing the number of registered PWDs for each state in Malaysia.

| State | Registered.PWDs |
|-------------------|-----------------|
| Johor | 50,312 |
| Kedah | 36,435 |
| Kelantan | 29,264 |
| Melaka | 20,059 |
| Negeri Sembilan | 19,171 |
| Pahang | 24,350 |
| Perak | 36,099 |
| Perlis | 5,002 |
| Pulau Pinang | 24,775 |
| Sabah | 25,593 |
| Sarawak | 28,159 |
| Selangor | 63,514 |
| Terengganu | 20,467 |
| W.P. Kuala Lumpur | 24,913 |
| W.P. Labuan | 1,156 |
| Jumlah/ Total | 409,269 |

1.2.2 Persons with Disabilities by Category of Ethnic Groups

Second option, will direct you to total number of registered PWDs based on ethnic groups in all over Malaysia.

| Registered PWDs in Malaysia WELCOME PAGE Overview Welfare | | |
|--|---|-----------------|
| Types of PWD's categorization : <input type="radio"/> Registration of PWD's by State <input checked="" type="radio"/> Registration of PWD's by Category of Ethnic Groups <input type="radio"/> Registration of PWD's by Category of Age Groups | | |
| No | Ethnic.Group | Registered.PWDs |
| 1 | Melayu / Malay | 248,248 |
| 2 | Cina / Chinese | 79,339 |
| 3 | India / Indian | 40,017 |
| 4 | Peribumi Semenanjung / PSm (Peninsular Natives) | 2,504 |
| 5 | Peribumi Sabah / PSb (Sabah Natives) | 19,716 |
| 6 | Peribumi Sarawak / PSw (Sarawak Natives) | 14,843 |
| 7 | Lain-lain / Others | 4,602 |
| NA | Jumlah/ Total | 409,269 |

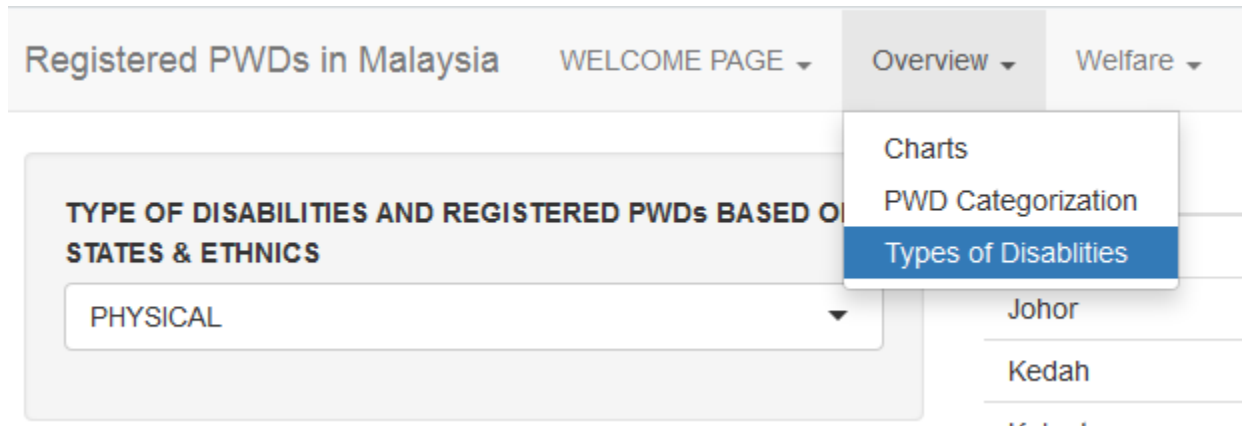
1.2.3 Persons with Disabilities by Category of Age groups

The third option, will direct you to total number of registered PWDs based on age groups together with the type of disabilities (like, hearing, mental, speech challenges) in all over Malaysia.

| Registered PWDs in Malaysia WELCOME PAGE Overview Welfare | | | | | | | | | |
|--|-------------------|---------|----------|-----------------------|--------|--------|--------|---------|--|
| Types of PWD's categorization : <input type="radio"/> Registration of PWD's by State <input type="radio"/> Registration of PWD's by Category of Ethnic Groups <input checked="" type="radio"/> Registration of PWD's by Category of Age Groups | | | | | | | | | |
| Age.Group..years. | Visually.Impaired | Hearing | Physical | Learning.Disabilities | Speech | Mental | Others | Total | |
| < 6 | 388 | 642 | 2,806 | 6,392 | 18 | 7 | 1,368 | 11,621 | |
| 7 - 12 | 1,571 | 2,156 | 6,037 | 37,659 | 615 | 12 | 3,742 | 51,792 | |
| 13 - 18 | 1,985 | 2,654 | 6,096 | 38,396 | 203 | 164 | 2,022 | 51,520 | |
| Total (a) | 3,944 | 5,452 | 14,939 | 82,447 | 836 | 183 | 7,132 | 114,933 | |
| 19 - 21 | 1,248 | 1,533 | 3,861 | 14,020 | 61 | 343 | 1,026 | 22,092 | |
| 22 - 35 | 6,072 | 7,710 | 24,402 | 30,627 | 361 | 8,014 | 3,957 | 81,143 | |
| 36 - 45 | 5,215 | 4,921 | 21,420 | 8,793 | 280 | 10,204 | 2,298 | 53,131 | |
| 46 - 59 | 9,920 | 6,580 | 42,368 | 6,250 | 349 | 11,192 | 2,756 | 79,415 | |
| > 60 | 10,293 | 5,741 | 35,610 | 1,197 | 217 | 3,582 | 1,915 | 58,555 | |
| Total (b) | 32,748 | 26,485 | 127,661 | 60,887 | 1,268 | 33,335 | 11,952 | 294,336 | |
| Total (a + b) | 36,692 | 31,937 | 142,600 | 143,334 | 2,104 | 33,518 | 19,084 | 409,269 | |

1.3 Types of Disabilities

This option will help you to understand types of challenges.



1.3.1 Types of Disabilities based on registered PWDs based on states and ethnics.

You may select each type of disability (challenges) to get registered PWDs in all states versus the ethnic groups.

| | | | |
|-----------------------------|--------------|----------|---------|
| Registered PWDs in Malaysia | WELCOME PAGE | Overview | Welfare |
|-----------------------------|--------------|----------|---------|

| TYPE OF DISABILITIES AND REGISTERED PWDs BASED ON STATES & ETHNICS | | | | | | | | | |
|--|----------|--------|--------|---------|-------------------|---------------------|--------|--|--|
| MENTAL | PHYSICAL | SPEECH | MENTAL | HEARING | VISUALLY IMPAIRED | LEARNING DISABILITY | OTHERS | | |

| Negeri | Melayu | Cina | India | PSm | PSb | PSw | Lain.lain | Jumlah |
|-------------------|--------|---------|--------|-----|-----|-----|-----------|--------|
| State | Malay | Chinese | Indian | PSm | PSb | PSw | Others | Total |
| Johor | 244 | 163 | 33 | 0 | 1 | 0 | 1 | 442 |
| Kedah | 252 | 44 | 24 | 0 | 1 | 0 | 4 | 325 |
| Kelantan | 427 | 7 | 1 | 0 | 0 | 0 | 1 | 436 |
| Melaka | 110 | 36 | 15 | 2 | 0 | 0 | 3 | 166 |
| Negeri Sembilan | 95 | 57 | 31 | 1 | 0 | 0 | 1 | 185 |
| Pahang | 127 | 19 | 5 | 2 | 0 | 0 | 0 | 153 |
| Perak | 173 | 92 | 36 | 2 | 0 | 0 | 5 | 308 |
| Perlis | 61 | 8 | 1 | 0 | 0 | 0 | 3 | 73 |
| Pulau Pinang | 70 | 61 | 23 | 0 | 0 | 0 | 2 | 156 |
| Sabah | 15 | 43 | 1 | 2 | 243 | 2 | 30 | 336 |
| Sarawak | 80 | 144 | 0 | 0 | 0 | 202 | 4 | 430 |
| Selangor | 251 | 169 | 115 | 0 | 2 | 0 | 3 | 540 |
| Terengganu | 201 | 2 | 0 | 0 | 0 | 0 | 0 | 203 |
| W.P. Kuala Lumpur | 137 | 134 | 51 | 0 | 0 | 1 | 3 | 326 |
| W.P. Labuan | 6 | 2 | 0 | 0 | 3 | 0 | 4 | 15 |
| Jumlah/ Total | 2,249 | 981 | 336 | 9 | 250 | 205 | 64 | 4,094 |

2.0 Welfare

Its upmost important to have a centralized reference for public to get the proper details on existing welfares based on each state.

2.1 Government provided Welfare for Children & Adult.

There will be 2 options on welfare. One for children and another for adult.

Registered PWDs in Malaysia WELCOME PAGE Overview Welfare

TYPE OF WELFARE for CHILDRENS BY GOVERNMENT BASED ON STATE

P.PINANG

Childrens (Kanak-Kanak)

Adult (Dewasa)

P.PINANG PUSAT KANAK-KANAK IS

P.PINANG SEKOLAH KANAK-KANA

2.2 Welfare for Children

Once you choose children, it will provide you the list of state in Malaysia as your preference.

It will provide you the required information such as address, name of the center, and phone numbers.

| Registered PWDs in Malaysia WELCOME PAGE Overview Welfare | | | | |
|---|---|--|---------------------------|--|
| STATE | NAME | ADDRESS | TELEPHONE.NO | |
| SELANGOR | PUSAT JAGAAN PERSATUAN PENJAGAAN & LATIHAN KANAK-KANAK AUTISTIK WPKL DAN SELANGOR | 23-25, JALAN SM12, PJS 3/47, TAMAN SRI MANJA, BATU 6 3/4, OFF JALAN KLANG LAMA, 46000 PETALING, SELANGOR | 016-6728332 | |
| SELANGOR | PUSAT JAGAAN KANAK-KANAK DOWN SYNDROME DAN HYPER ACTIVE | NO. 43, LORONG BATU NILAN 17K, JALAN BATU NILAM, BANDAR BUKIT TINGGI, 41200 KLANG, SELANGOR | 0333232666 / 0137712825 | |
| SELANGOR | PUSAT JAGAAN DAN PENDIDIKAN ISLAM KANAK-KANAK KELAINAN UPAYA MALAYSIA | NO. 1A, JALAN 6, TAMAN BATU, 68100 GOMBAK, SELANGOR | 011-15421331 | |
| SELANGOR | PERSATUAN KANAK-KANAK ISTIMEWA KAJANG SELANGOR | NO. 17, JALAN SEKSYEN 2/14, TAMAN KAJANG UTAMA, KAJANG, 43000 HULU LANGAT, SELANGOR | 03-87366385 | |
| SELANGOR | PUSAT JAGAAN PERSATUAN KANAK - KANAK SPASTIK SELANGOR & WILAYAH PERSEKUTUAN | NO. 14, LORONG UTARA A.P.O BOX 48, 46700 PETALING, SELANGOR | 03-79550296 | |
| SELANGOR | PUSAT JAGAAN PERSATUAN KANAK-KANAK ISTIMEWA KAJANG SELANGOR | NO. 1, JALAN SRI HANECO 4/1, TAMAN SRI HANECO, SEMENYIH, 43500, SELANGOR | 03-87366385 | |
| SELANGOR | PUSAT JAGAAN PERSATUAN PENJAGAAN KANAK-KANAK TERENCAT AKAL NEGERI SELANGOR | LOT 1648, JALAN ANGKASA, BANDAR MAHKOTA BANTING, BANTING, 42700 KUALA LANGAT, SELANGOR | 012-7761465 | |
| SELANGOR | PUSAT JAGAAN KANAK-KANAK CACAT TAMAN MEGAH PETALING JAYA SELANGOR | NO 31, JALAN SS 3/39, TAMAN UNIVERSITI, 47301 PETALING, SELANGOR | 03-78061143 | |
| SELANGOR | PUSAT JAGAAN PERSATUAN KANAK-KANAK ISTIMEWA HULU LANGAT | NO. 43, & 45, JALAN KOOP CEUPACS 4, TAMAN CEUPACS, BATU 8, CHERAS, 43200 HULU LANGAT, SELANGOR | 03-90761172 / 03-90815625 | |
| SELANGOR | PUSAT JAGAAN KANAK-KANAK ISTIMEWA ROZITA | NO. 22, JALAN C.J/G, TAMAN CHERAS JAYA, CHERAS, 43200, SELANGOR | 016-3676408 | |
| SELANGOR | PUSAT JAGAAN AN-NAJA' EDUCARE CENTRE | NO. 1, JALAN WAU 7, 11/16, SEKSYEN 11, 40100 SHAH ALAM, SELANGOR | 03-55133207 | |

2.3 Welfare for Adult.

Once you choose adult, it will provide you the list of state in Malaysia as your preference.

It will provide you the required information such as address, name of the center, and phone numbers.

Registered PWDs in Malaysia
WELCOME PAGE
Overview
Welfare

TYPE OF WELFARE for ADULTS BY GOVERNMENT BASED ON STATE

PERAK

Childrens (Kanak-Kanak)

Adult (Dewasa)

PERAK PERSATUAN DAY BREAK UN ORANG CACAT, KINTA, PERAK

PERAK PERSATUAN UNTUK INSAN B PERAK (SEKOLAH SEMANGA

PERAK PERTIIRIHAN HARAPAN RAE

Registered PWDs in Malaysia
WELCOME PAGE
Overview
Welfare

TYPE OF WELFARE for ADULTS BY GOVERNMENT BASED ON STATE

KUALA LUMPUR

SARAWAK

SELANGOR

TERENGGANU

PUTRAJAYA

PERLIS

KUALA LUMPUR

LABUAN

| STATE | NAME | ADDRESS | TELEPHONE NUMBER |
|--------------|---|---|------------------|
| KUALA LUMPUR | PUSAT JAGAAN IMPIAN (INSTITUT MASALAH PEMBELAJARAN & AUSTISME MALAYSIA) | NO. 4 PERSIARAN TITIWANGSA 53200 , KUALA LUMPUR | 03-40220308 |
| KUALA LUMPUR | PUSAT JAGAAN PUSAT LATIHAN VOKASIONAL & PENDIDIKAN DEWASA | WISMA HARAPAN, 522 JALAN SULTAN ABDUL SAMAD BRICKFIELD 50470 , KUALA LUMPUR | 03-22741457 |
| KUALA LUMPUR | PUSAT JAGAAN DYSLEXIA | NO. JKR 3488, JALAN AMPANG HILIR 4 50000 , KUALA LUMPUR | 03-42516100 |
| KUALA LUMPUR | PERSATUAN KEBANGSAAN AUTISME MALAYSIA (NASOM) [W/PJH OKU / 003/2017] [06.12.2017 - 05.12.2022] HARIAN/ NGO | LOT SD 44, JALAN AMZIL, TAMAN ROWTHER 68100 KUALA LUMPUR, KUALA LUMPUR | 03-78317928 |
| KUALA LUMPUR | PUSAT JAGAAN PERSATUAN UNTUK ORANG KURANG UPAYA AKAL SELANGOR DAN WILAYAH PERSEKUTUAN [W/PJH OKU 004/2017] [26.12.2017 - 25.12.2022] - HARIAN / NGO | WISMA HARAPAN, 522, JALAN SULTAN ABDUL SAMAD, BRICKFIELDS, 50470 KUALA LUMPUR, KUALA LUMPUR | 03-22741457 |
| KUALA LUMPUR | PUSAT JAGAAN TASPUPTRA PERKIM [W/PJH OKU 001/2017] [21.06.2017 - 20.06.2022] BERKEDIAMAN / NGO | BANGUNAN JKR, NO. 2808-85, LINGKUNGAN U-THANT JALAN AMPANG 55000 KUALA LUMPUR, KUALA LUMPUR | 03-42516100 |

3.0 REFERENCES

<http://www.data.gov.my/>