Tugas SPK

*“Smartphone”*



Oleh:

SMART

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# Menetapkan Kriteria dan Sub-kriteria

|  |  |
| --- | --- |
| Kriteria | Sub Kriteria |
| OS | Android |
| iOS |
| Windows Phone |
| Blackberry |
| Brand | Samsung |
| Oppo |
| Nokia |
| Apple |
| Asus |
| Lenovo |
| Blackberry |
| Camera | <=1 MP |
| >1MP dan <= 3 MP |
| >3MP dan <= 5 MP |
| >5MP dan <= 7 MP |
| >7MP |
| Size | <=4" |
| >4" dan <= 5" |
| >5" dan <=6" |
| >6" |
| Memory | <=4 GB |
| >4 GB dan <= 8GB |
| >8 GB dan <= 16GB |
| >16 GB dan <= 32GB |
| >32GB |
| Water Resistance | Yes |
| No |
| Tidak peduli |
| Price | <= 1 juta rupiah |
| >1 juta rupiah dan <= 3 juta rupiah |
| >3 juta rupiah dan <= 5 juta rupiah |
| >5 juta rupiah dan <= 7 juta rupiah |
| >7 juta rupiah |
| Battery Capacity | <=1500 mAh |
| >1500 mAh dan <= 2000 mAh |
| >2000 mAh dan <= 2500 mAh |
| >2500 mAh dan <= 3000 mAh |
| >3000 mAh |
| Color | Hitam |
| Putih |
| Biru |
| Merah |
| Lainnya |
| RAM | <=256 MB |
| >256 MB dan <= 512 MB |
| >512 MB dan <= 1 GB |
| >1 GB dan <= 2 GB |
| >3 GB |

# Menetapkan Sistem Penilaian

Nilai min : 1, SNilai max : 10

|  |  |
| --- | --- |
| Berdasarkan harga | Nilai |
| <= 1 juta rupiah | 2 |
| >1 juta rupiah dan <= 3 juta rupiah | 5 |
| >3 juta rupiah dan <= 5 juta rupiah | 7 |
| >5 juta rupiah dan <= 7 juta rupiah | 8 |
| >7 juta rupiah | 10 |
|  |  |
|  |  |
| Kamera | Nilai |
| <=1 MP | 1 |
| >1MP dan <= 3 MP | 3 |
| >3MP dan <= 5 MP | 6 |
| >5MP dan <= 7 MP | 8 |
| >7MP | 10 |
|  |  |
|  |  |
| Memory | Nilai |
| <=4 GB | 3 |
| >4 GB dan <= 8GB | 5 |
| >8 GB dan <= 16GB | 8 |
| >16 GB dan <= 32GB | 9 |
| >32GB | 10 |
|  |  |
|  |  |
| Battery Capacity | Nilai |
| <=1500 mAh | 2 |
| >1500 mAh dan <= 2000 mAh | 6 |
| >2000 mAh dan <= 2500 mAh | 8 |
| >2500 mAh dan <= 3000 mAh | 9 |
| >3000 mAh | 10 |
|  |  |
|  |  |
| RAM | Nilai |
| <=256 MB | 1 |
| >256 MB dan <= 512 MB | 2 |
| >512 MB dan <= 1 GB | 6 |
| >1 GB dan <= 2 GB | 8 |
| >3 GB | 10 |

# Merancang Basis Data SPK-Smartphone (E-R Diagram dan Relational Model)



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|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Kriteria |  |  | Smartphone |  |
| id\_kriteria | varchar |  | id\_smartphone | varchar |
| OS | varchar | 1 1 | Nama\_smartphone | varchar |
| Brand | varchar |  |  |  |
| Camera | number |  |  |  |
| Size | number |  |  |  |
| Memory | number |  |  |  |
| Water\_resistance | boolean |  |  |  |
| Price | Int |  |  |  |
| Battery Capacity | Number |  |  |  |
| Color | Varchar |  |  |  |
| RAM | number |  |  |  |

# Menerapkan Salah Satu Teknik

* 1. Teknik WM
  2. Teknik GA
  3. Teknik SECC
  4. Teknik SEL

Kami menggunakan Teknik SECC

1. Harga smartphone yang anda inginkan :

* <= 1 juta rupiah
* >1 juta rupiah dan <= 3 juta rupiah
* >3 juta rupiah dan <= 5 juta rupiah
* >5 juta rupiah dan <= 7 juta rupiah
* > 7 juta rupiah

1. Sistem Operasi smartphone yang anda inginkan :

* Android
* iOS
* Windows Phone
* Blackberry

1. Merk smartphone yang anda inginkan :

* Samsung
* Oppo
* Nokia
* Apple
* Asus
* Lenovo
* Blackberry

1. Kamera :

* <= 1 MP
* >1 MP dan <= 3 MP
* >3 MP dan <= 5 MP
* >5 MP dan <=7 MP
* >7 MP

1. Ukuran :

* <=4”
* >4” dan <= 5”
* >5” dan <= 6”
* >6”

Pengguna memilih :

* Harga : >3 juta rupiah dan <= 5 juta rupiah
* OS : Android
* Merk : Samsung
* Kamera : > 7 MP
* Ukuran : >5” dan <= 6”

Daftar Smartphone :

* Galaxy Samsung S3
* Galaxy Samsung S4
* Galaxy Samsung S5
* Galaxy Note 2
* Galaxy Note 3
* Galaxy Mega
* Galaxy Grand
* Galaxy Grand 2
* iPhone 4
* iPhone 4s
* iPhone 5
* …

Hasil :

* Galaxy Mega
* Galaxy Grand
* Galaxy Grand 2