**Test Case Buat Jadwal**

Test case sedang dalam proses pengembangan, namun berikut adalah contoh kecil test case:

Diberikan data kompetensi :

|  |  |  |  |
| --- | --- | --- | --- |
| Kompetensi | M/P | Bobot | Prasyarat |
| Statistical analysis | M | 3 | - |
| Data processing | M | 2 | - |
| Database | M | 2 | data modeling |
| Algorithm and Data Structure | P | 2 | - |
| Knowledge in SAS | M | 2 | - |
| Big data and Unstructured data | P | 5 | - |
| Programming skills (R dan Python) | P | 2 | - |
| HTML5 | P | 2 | - |
| CSS3 | P | 2 | - |
| PHP | P | 2 | - |
| JAVA | P | 2 | Algorithm and Data Structure |
| SRS | M | 2 | - |
| Responsive design | P | 2 | - |
| Laravel | P | 2 | - |
| Requirement elicitation | M | 2 | SRS |
| SDLC | M | 2 | - |
| data modeling | M | 2 | - |
| OO programming | M | 2 | - |
| Data mining | M | 2 | Database, Algorithm and Data Structure |

Diberikan data dosen :

|  |  |  |
| --- | --- | --- |
| Dosen | Kompetensi | Jadwal Cuti |
| Mr. A | Big data and Unstructured data, Statistical analysis, Data processing, Database, Algorithm and Data Structure, Knowledge in SAS, | 1 Agustus – 30 Agustus |
| Mr. B | Big data and Unstructured data, Database, Algorithm and Data Structure, Programming skills (R dan Python), JAVA, PHP, OO programming | - |
| Mr. C | Database, Algorithm and Data Structure, HTML5, CSS3, Responsive design, Laravel | - |
| Mr. D | Database, Algorithm and Data Structure, SRS, OO programming, data modeling, Requirement elicitation, SDLC | 1 Juli – 1 Agustus |
| Mr. E | Big data and Unstructured data,Data Mining | 1 Juni – 30 Juli |
| Mr. F | CCNA,Microtic,Networking | 1 Juni - 25 Agustus |
| Mr. G | CCNA,Microtic,Networking | 6 Juni – 30 Agustus |

**INPUTAN MAHASISWA:**

**Daftar Kompetensi:**

[M] Statistical analysis {} ~3

[M] Data processing {} ~2

[M] Database {data modeling} ~2

[P] Algorithm and Data Structure {} ~2

[M] Knowledge in SAS {} ~2

[P] Big data and Unstructured data {} ~5

[P] Programming skills (R dan Python) {} ~2

[P] HTML5 {} ~2

[P] CSS3 {} ~2

[P] PHP {} ~2

[P] JAVA {Algorithm and Data Structure} ~2

[M] SRS {} ~2

[P] Responsive design {} ~2

[P] Laravel {} ~2

[M] Requirement elicitation {SRS} ~2

[M] SDLC {} ~2

[M] data modeling {} ~2

[M] OO programming {} ~2

[M] Data mining {Database, Algorithm and Data Structure} ~2

[P] Java script {} ~2

[P] CCNA {} ~4

[M] Microtic {} ~3

[M] Networking {} ~3

**Daftar Pekerjaan:**

Data scientist {Statistical analysis,Data mining,Data processing, Programming skills (R dan Python),Knowledge in SAS,Big data and Unstructured data}

Web developer {HTML5,CSS3,PHP,JAVA,SRS,Responsive design,Laravel}

System analyst {requirement elicitation,project management,data modeling,SDLC,OO programming}

Software developer {JAVA,Java script,Database,Programming skills (R dan Python)}

Business analyst {Programming skills (R dan Python),Requirement elicitation,Big data and Unstructured data}

Network engineer {CCNA,Microtic,Networking}

IT consultant {Requirement elicitation,Responsive design,data modeling,OO programming,JAVA}

QA analyst {Requirement elicitation,Knowledge in SAS,Database,Networking}

**Skenario:**

**Skenario kecil:**

**10 Mahasiswa random**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Nama | Pekerjaan 1 | Pekerjaan 2 | Pekerjaan 3 | Kemampuan awal |
| A | Data scientist | System Analyst | Software developer | JAVA,HTML 5,CSS3,PHP,JAVA,SRS |
| B | Web developer | Software developer | IT consultant | SRS,CCNA,Microtic,JAVA |
| C | QA analyst | Network engineer | Business analyst | Networking,CCNA |
| D | Web developer | Software developer | Data scientist | Data mining,HTML5,Laravel,PHP,Database |
| E | Business analyst | IT consultant | QA analyst | Requirement elicitation,Knowledge in SAS,Database,JAVA |
| F | Network engineer | Business analyst | System analyst | JAVA,Networking |
| G | Web developer | IT consultant | QA analyst | JAVA,HTML5,CSS3,PHP,Laravel,OO programming,Database |
| H | QA analyst | Network engineer | Data scientist | Data mining,Database,Data modeling,Networking |
| I | Data scientist | Web developer | Network engineer | Networking, Requirement elicitation |
| J | Business analyst | Software developer | Web developer | CCNA,Microtic,Networking |
| AA | Data scientist | System Analyst | Software developer | JAVA,HTML 5,CSS3,PHP,JAVA,SRS |
| BB | Web developer | Software developer | IT consultant | SRS,CCNA,Microtic,JAVA |
| CC | QA analyst | Network engineer | Business analyst | Networking,CCNA |
| DD | Web developer | Software developer | Data scientist | Data mining,HTML5,Laravel,PHP,Database |
| EE | Business analyst | IT consultant | QA analyst | Requirement elicitation,Knowledge in SAS,Database,JAVA |
| FF | Network engineer | Business analyst | System analyst | JAVA,Networking |
| GG | Web developer | IT consultant | QA analyst | JAVA,HTML5,CSS3,PHP,Laravel,OO programming,Database |
| HH | QA analyst | Network engineer | Data scientist | Data mining,Database,Data modeling,Networking |
| II | Data scientist | Web developer | Network engineer | Networking, Requirement elicitation |
| JJ | Business analyst | Software developer | Web developer | CCNA,Microtic,Networking |
| AAA | Data scientist | System Analyst | Software developer | JAVA,HTML 5,CSS3,PHP,JAVA,SRS |
| BBB | Web developer | Software developer | IT consultant | SRS,CCNA,Microtic,JAVA |
| CCC | QA analyst | Network engineer | Business analyst | Networking,CCNA |
| DDD | Web developer | Software developer | Data scientist | Data mining,HTML5,Laravel,PHP,Database |
| EEE | Business analyst | IT consultant | QA analyst | Requirement elicitation,Knowledge in SAS,Database,JAVA |
| FFF | Network engineer | Business analyst | System analyst | JAVA,Networking |
| GGG | Web developer | IT consultant | QA analyst | JAVA,HTML5,CSS3,PHP,Laravel,OO programming,Database |
| HHH | QA analyst | Network engineer | Data scientist | Data mining,Database,Data modeling,Networking |
| III | Data scientist | Web developer | Network engineer | Networking, Requirement elicitation |
| JJJ | Business analyst | Software developer | Web developer | CCNA,Microtic,Networking |

**Skenario 2**

**Semua dosen available hanya pada bulan Agustus.**

|  |  |  |
| --- | --- | --- |
| Dosen | Kompetensi | Jadwal Cuti |
| Mr. A | Big data and Unstructured data, Statistical analysis, Data processing, Database, Algorithm and Data Structure, Knowledge in SAS, | 1 Juni – 30 Juli |
| Mr. B | Database, Algorithm and Data Structure, HTML5, CSS3, Responsive design, Laravel | 1 Juni – 30 Juli |
| Mr. C | Database, Algorithm and Data Structure, SRS, OO programming, data modeling, Requirement elicitation, SDLC | 1 Juni – 30 Juli |
| Mr. D | Big data and Unstructured data,Data Mining | 1 Juni – 30 Juli |
| Mr. E | Microtic,Networking | 1 Juni – 30 Juli |

Terdapat 10 mahasiswa

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Nama | Pekerjaan 1 | Pekerjaan 2 | Pekerjaan 3 | Kemampuan awal |
| A | Data scientist | Web developer | Network engineer | CCNA, Statistical analysis,Data mining,Data processing, Programming skills (R dan Python),Knowledge in SAS, JAVA,SRS |
| B | Web developer | Data scientist | Network engineer | CCNA, Networking, Statistical analysis,Data mining,Data processing, Programming skills (R dan Python),Knowledge in SAS, JAVA,SRS |
| C | Data scientist | Web developer | Network engineer | CCNA, Statistical analysis,Data mining,Data processing, Programming skills (R dan Python),Knowledge in SAS, JAVA,SRS |
| D | Web developer | Data scientist | Network engineer | CCNA, Networking, Statistical analysis,Data mining,Data processing, Programming skills (R dan Python),Knowledge in SAS, JAVA,SRS |
| E | Data scientist | Web developer | Network engineer | Statistical analysis,Data mining,Data processing, Programming skills (R dan Python),Knowledge in SAS, JAVA,SRS |
| F | Web developer | Data scientist | Network engineer | CCNA, Networking, Statistical analysis,Data mining,Data processing, Programming skills (R dan Python),Knowledge in SAS, JAVA,SRS |
| G | Data scientist | Web developer | Network engineer | CCNA, Statistical analysis,Data mining,Data processing, Programming skills (R dan Python),Knowledge in SAS, JAVA,SRS |
| H | Web developer | Data scientist | Network engineer | CCNA, Networking, Statistical analysis,Data mining,Data processing, Programming skills (R dan Python),Knowledge in SAS, JAVA,SRS |
| I | Data scientist | Web developer | Network engineer | CCNA, Networking, Statistical analysis,Data mining,Data processing, Programming skills (R dan Python),Knowledge in SAS, JAVA,SRS |
| J | Web developer | Data scientist | Network engineer | Statistical analysis,Data mining,Data processing, Programming skills (R dan Python),Knowledge in SAS, JAVA,SRS |

**Perlihatkan hasil optimasi 1 dan optimasi 2**