**DATASET**

**Topic**: Design and implemetation of an intelligent requirements engineering tool for internet of thigs applications in agile environment.

Testing text: source (Pereira, 2018)

**Input Text**: *The Payroll Administrator maintains employee information. The Payroll Administrator is responsible for adding new employees, deleting employees, and changing all employee’s information such as tittle, address, and payment classification (hourly, salaried, commissioned) as well as run administrative reports.*

***Case study 1: ATM***

***Input text*** *: The bank customer can withdraw money from the ATM without card. The Bank customer can also deposit money on the ATM, change PIN on the ATM and transfer funds from the current account to savings account on the ATM. The customer should be able to receive SMS notifications when money is withdrawn from the account.*

Table 1:Square matrix for task assignment

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TO-DO | Task 5 | Task 6 | Task 7 | Task 8 | Task 9 |
| London | 2 | 4 | 3 | 1 | 1 |
| Tau | 5 | 7 | 6 | 3 | 4 |
| Mphaufele | 6 | 8 | 7 | 4 | 9 |
| John | 4 | 4 | 2 | 1 | 3 |
| Lehlohonolo | 5 | 7 | 9 | 8 | 6 |

### **Case study 2: Ecommerce**

For this case study, suppose there is a company in Cape Town which is looking for the development of their Ecommerce websites and they specifies their requirements as:

Input text:

***Input text*** *:* *The customers should be able to view products sold online. If the customer decides to purchase the products online, add products to the bucket where s/he can continue with the purchasing process as the guest or create account for shipping purposes. They must be able to pay with visa cards or cash on delivery (COD). The system should validate expired cards to avoid scammers.”*

Table 5.1:The Hungarian matrix input 3

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TO-DO | Task 10 | Task 11 | Task 12 | Task 13 | Task 14 |
| London | 3 | 4 | 4 | 5 | 2 |
| Tau | 4 | 6 | 3 | 5 | 7 |
| Mphaufele | 2 | 3 | 1 | 1 | 5 |
| John | 6 | 7 | 4 | 8 | 4 |
| Lehlohonolo | 1 | 4 | 9 | 7 | 6 |

**Case study 3**

**Input text:** *The user of the application can track his/her performance when running or riding his/her bike via the GPS. His/her performance can be saved to his/her account and shared with other friends from his/her social networks. The user cannot delete any entries once they are saved to the account. The user can create a report with all the activities by date range, or by type (running or biking).*

Table 5.2:Hungerian input 4

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TO-DO | Task 15 | Task 16 | Task 17 | Task 18 | Task 19 |
| London | 7 | 9 | 4 | 5 | 3 |
| Tau | 10 | 6 | 7 | 9 | 6 |
| Mphaufele | 5 | 3 | 4 | 2 | 5 |
| John | 6 | 8 | 5 | 7 | 4 |
| Lehlohonolo | 1 | 4 | 5 | 3 | 6 |