HOME HIDDEN SECURITY (HHS)

**SCHOOL:**

**THARAKA UNIVERSITY COLLEGE**

**FACULTY OF PHYSICAL SCIENCE ENGINEERING AND TECHNOLOGY**

**DEPARTMENT OF COMPUTER SCIENCE**

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**DEDICATION**

It is my honor and pleasure to dedicate my project to the community to better our future.

**ACKNOWLEDGEMENT**

I hereby acknowledge Madam Eva my lecture who happens to be my supervisor, for the guidance and constant development of this project by providing useful information on the same.

**Problem Statement**

Many homesteads have a challenge of theft and I saw it good to have security improved in our homes so that people can have peace in their minds. This project will enable the society to safeguard its environment from attacks and also theft of items from people’s homesteads

**Abstract**

I decided to come up with this project after seeing several issues of insecurity, people being stolen their properties and also others being framed for certain crimes they did not do. People have suffered things getting lost anyhow in their compound and start making assumptions, with my project it will be easy to see whoever walks in the compound and monitor him/her around the compound for there is the existence of sound detectors. This project also reduces the cost of employing man power to guard your compound and also gives you the potential of seeing the whole of the compound in a screen rather than walking round the compound doing inspection.

**Declaration**

I declare this project is being done by Joseph K. Peter. In the mean while no one has presented the project in Tharaka University College, so I am going to work on it to the best of my level.

**INTRODUCTION**

Home hidden security is a project that is aided to help the community in safe guarding their homestead. The project offers services such as:

* Detecting the movement of anybody who enters your compound in your absence.
* Recording videos of anything happening in your homestead.
* Sending alert messages to your phone.
* An alarm beeps if you allow by use of your phone.

Other services offered by the in the project are:

* Training at a cost of Ksh 10000 per person;
* Sale of accessories at Ksh 2500 per unit;
* Installing the system ksh 250 000;

A customer seeking services from the company is required to provide personal details. The details are captured and the customer is required to make full payments for services sought. Once the payment has been verified, services are approved and offered. If the payment is for training services the trainee is then provided with the training schedule.

The company also provides transport services to customers and are charged based on the destination and the quantity of the items.

**STSTEM ANALYSIS**

**Problem Definition**

Home hidden security project provides home security services for various families registered under the manual system. The manual system has numerous limitations which press for the existence of a computerized system.

Some of the limitations of the manual system include:

* The use of human security guards is not fully secured for anybody who sneaks in unauthorized.
* The use of manual system is tiresome and time consuming.
* Lose of items in your compound even the works may attempt to steal.
* The CCTVs installed can be seen where they are located such that a person can try to escape their area of capture.
* One can be lied to when pauses a question of what happened after a certain scenario

**PROPOSED SYSTEM**

**OBJECTIVES**

Due to all inconveniences brought about by the use of the existence system, I would like to recommend this computerized system which will aid in the improvement of the security of most compounds.

The objectives of the computerized system will be:

1. To keep trust to the customer.
2. To maintain records of trainee customers.
3. To maintain records of services rendered and products sold.
4. To capture Payments for each package.
5. To capture income for various sales and trainee services.
6. To capture details of purchase from customers.

**BENEFITS**

The proposed system has the following benefits:

1. It will increase security.
2. It will offer backup for stored data.
3. It will enhance data accuracy.
4. It will eradicate instances of data redundancy.
5. It will enhance the ease of retrieval of data.
6. It will take up less time while working on data.
7. It will make work less tedious to employees.
8. It will save on space and time.

**FEASIBILITY STUDY**

**Technical feasibility**

The organization will be required to purchase computers and hire a database administrator, a computer technician and a system analyst

**Social Feasibility**

The company will have to train its staff on operation to be carried out.

**Economic Feasibility**

The amount of money spent in the development and maintenance of the system is as shown in the table below:

|  |  |  |
| --- | --- | --- |
|  | MANUAL SYSTEM IN SHILLINGS | COMPUTERIZED SYSTEM IN SHILLINGS |
| Administrative cost | 83000 | 45000 |
| Electricity bills | 7000 | 14000 |
| Salaries | 80000 | 60000 |
| Relevant stationery | 60000 | 45000 |
| maintenance | 9000 | 18500 |
| TOTAL | 182800 | 126500 |

Economic feasibility

**Operational feasibility**

The system will function accordingly in proper working condition.

**Legal Feasibility.**

The proposed system is legally authorized for use by the government.

**Schedule Feasibility**

The proposed system can be developed and made operational over a six months period as shown below.

|  |  |
| --- | --- |
| ACTIVITY | DURATION |
| System analysis | 1 month |
| System design | 1 month |
| System construction | 2 weeks |
| System testing and debugging | 2 weeks |

**System analysis by use of flow charts**

START

Capture services offered

Capture package details

Test for package

If package\_15000?

If package \_120000?

If package\_190000?

Package records

And services

Generate package and service report

1

1

Capture company purchase

Records of company purchase

Sales <=

20000

Sales <80000

Sales>=

80000

Not negligible

Payment in cash

Payment by mobile money transfer

Payment paid via electronic fund transfer

Payment records

Exit purchase

2

2

Capture customer details

Full payment

Not eligible for services

Offer service

Payment for training

Provide schedule

Customer details records

Customer details report

3

3

Capture transport services

Transport service record

Exit system

STOP

Transport service report

|  |  |  |
| --- | --- | --- |
| Table name | Fieldname | Data type |
| Home Hidden security customer table | Reg No(p.k) | Text |
| IDNO | Text |
| Customers Name | Text |
| Tel No | Text |
| DOR | Date/time |
| Address | Text |

Home hidden security customer table

|  |  |  |
| --- | --- | --- |
| Table Name | Fieldname | Data type |
| Trainee customers table | Reg No(p.k) | Text |
| IDNO | Text |
| Customers Name | Text |
| Tel No | Text |
| Service rendered | Text(Lookup text) |
| Service code | Text |
| Service cost | Number |

Trainee customers table

|  |  |  |
| --- | --- | --- |
| Table Name | Fieldname | Data type |
| Services and products sold | Service code(p.k) | Text |
| Service type | Text |
| Service cost | Number |
| Transport code | Text |
| Transport type | Text |
| Transport cost | Number |

Services and products table

|  |  |  |
| --- | --- | --- |
| Table Name | Fieldname | Data type |
| Transport Table | Reg No(p.k) | Text |
| IDNO | Text |
| Customers Name | Text |
| Tel No | Text |
| Address | Text |
| Destination | Text |
| Approximate KM | Number |
| Service rendered | Text(Look up wizard) |
| Service code | Text |
| Service cost | Number |
| Transport code | Text |
| Transport cost | Number |
| Total No of items | Number |
| No of packages | Number |

Transport table

|  |  |  |
| --- | --- | --- |
| Table name | Fieldname | Data type |
| Package cost table | Package code(p.k) | Text |
| Package type | Text(Look up wizard) |
| Package cost | Number |

Package cost table

|  |  |  |
| --- | --- | --- |
| Table name | Fieldname | Data type |
| Income from sales and services table | Service code(p.k) | Text |
| Service type | Text |
| Service cost | Number |
| Transport code | Text |
| Transport type | Text |
| Transport cost | Number |
| Package code | Text |
| Package type | Text |
| Package cost | Number |

Income from sales and services table

|  |  |  |
| --- | --- | --- |
| Table name | Fieldname | Data type |
| Purchase from customers table | Reg No(p.k) | Text |
| IDNO | Text |
| Farmers Name | Text |
| Tel No | Text |
| Product code | Text(look up wizard) |
| Product type | Text |
| Product cost | Number |
| Payment mode | Text(look up wizard) |

Purchase from customers table

**ENTITY RELATIONSHIP DIAGRAM**

Services and products table

Trainee customer table

Customer table

Income from sales and services table

Purchase from customer table

Entity relationship diagram **CONCLUSION AND RECOMMENDATION**

**CONCLUSION**

With the completion of this project I conclude that it has achieved its purpose. The whole project provides a base for customers who at most are the community people to safeguard their homes from thieves and other offendors. The system is developed using java programming and data are saved in the database.

The system helps to save on cash since once one has it will not be bounded to paying it at the end of each month and also it will not ask for resting days because it doesn’t have life thus cannot get tired.

**RECOMMENTATIONS**

The project has been accomplished and an application was developed to solve the aforementioned problems. For further development, there are some recommendations on this project:

The application should support an automatic sensor that should be able to recognize the owner.

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