Team Members

1. Samwel Marzouk Rezk section (8)

2. Shnouda nabill lameey section (7)

3. Sedeq Halim sadek section (8)

4. Sobhi mohamed sobhi section (8)

5-Abdelmonem khames section (9)

6. Sohib ali mohamed section (8)

* Presentation : -

The smart card has become a trader between the world's members and facilitates anyone to own it, but smart cards in banks or pay money for daily purchases, but this project will talk about its use in transportation, which facilitates the payment and makes the state control and This is through the connector device and each means of transportation containing the entrance to the entrance to the withdrawal of funds and know the number of passengers within the transportation and means of the maximum passenger and the remaining number of places and this project is granted a new feature of the smart card .

Project charter

• Project name : - Smart card (for transportaion)

• Project sponsor : - Ministry of transport.

• Project manager : - Eng \ Khaled ali .

• Purpose of the project : - Facilitate the payment process in the means of transportation for people.

• Business case : -

smart card is essentially a credit-card-sized piece of plastic which has a microchip embedded in it. This chip is the ‘smartness’ of the smart card, and performs all the functions required by thecard (storing data, processing data, writing data, etc.). Smartcardchips come in two broad varieties: memory-only chips, withstorage space for data, and with a reasonable level of builtinsecurity; and microprocessor chips which, in addition to memory,employ a processor controlled by a card operating system (similarto any PC), with the ability to process data onboard, as well ascarrying small programs capable of local execution.

• Project scoop : -

1. Control of transportation prices imposed by the state

2. Facilitate the payment process for the user

3. Increasing the chances of dealing with banks

4. Knowing the actual profits achieved by the means of transportation

• Key deliverables of the project : -

Control through the Ministry of Transport in the process of payment in transportation easily to the consumer, and the elimination of manipulation in transportation prices.

• Project milestons (Time line of project) : -

− In the first two weeks, the electrical engineers team will do this Gathering information about the device that will be connected to the transport vehicle .

− For month, engineers will make device .

− For Two weeks, a team of programmers will make the device .

− The project is being tested for a week .

• Project resources : -

1. A team of electrical engineering.
2. A team of programing.
3. The Device

• Budget: 200,000$

• Staff:

- A team elictrical engineers.

- A team of programmers.

• Vendor :

• The ministry of communications

• Constraints : -

1-The project must take time less than 11 weaks.

2-The project must not exceed 200,000 $

• Assumptions : -

1. The project does not take more than 11 weaks.
2. The cost no more 200,000$
3. Efficiency in the devices.

• High level risks : -

1. Increase in the cost.

2. The lack of efficiency sufficient in the receiver or the teams.

3. People do not interact with modern technology.

Project scope

1. Project scope discribtion:

* The smart card can facilitate the payment process for the user.
* Through the smart card, transportation prices can be controlled.
* Through the smart card in transportation, we make the use of technology in all life activities.

1. Project acceptance criteries:

* The card is small and easy to carry.
* Easy to use, faster and comfortable.

1. Project deliverables:

* Project plan, reports, documents and resources which return to ministry of transport.
* Protection of the payment process in transportation.

1. Project excution:

* One of customers reequirements that each card must have more than one effective copy , but the sponsor and manager refuse this because this is not safe and security.

1. Project constraints:

* Rules of company and policies.
* Budget.
* Project assumptions:

1. Project assumptions:

* The project will be implemented in large means of transportation such as trains and b

WBS

Control payment within transport

1.3 Coding

1.4 Finishing

1.2 Hardwer And Software

1.1 starting

1.1 starting1g

1.1 starting

1.1 starting

1.4.1

Test the Device

1.4.2

Explan and Fixed Errors 1.4.3

Connect and test smart card

1.3.1

Dividing Tasks

1.3.2

Coding the Functions in all Tasks

1.3.3

Test Devices

1.3.4

Test Smart Card

1.2.1

Component

1.2.2

Making Device

1.2.3

Testing Devices

1.1.1

Requirments

1.1.2

Policities

1.1.3

Doing Study about the Project

1.1.4

Plan the Project

**Dictionary of WBS**

* 1. **Starting : -**

1.1

Requirment

Meeting with team,Stakeholder and Sponser

Manager & Team Members

1 October 2022

4 October 2022

Work PackageID

Work Package Name Description

Description

Person

Date Start

Date End

1.2.2

Policites

Know the Policites and Recommends of the minister

Manager

5/October/2022

11/October/2022

Work PackageID

Work Package Name Description

Description

Person

Date Start

Date End

1.2.3

Doing Study about the Project

Collecting all information about the project

Manager and Team Member

12/October/2022

22/October/2022

Work PackageID

Work Package Name Description

Description

Person

Date Start

Date End

1.2 Hardwer And Software

1.2.1

Component

Electrical engineering

23/October/2022

30/October/2022

Work PackageID

Work Package Name Description

Person

Date Start

Date End

1.2.2

Making Device

Electrical engineering

1/November/2022

10/ November /2022

1.2.3

Testing Devices

Tester

11/ November/2022

14/ November/2022

Work PackageID

Work Package Name Description

Person

Date Start

Date End

Work PackageID

Work Package Name Description

Person

Date Start

Date End

Work PackageID

Work Package Name Description

Person

Date Start

Date End

1.3 coding

1.3.1

Dividing Tasks

Team leader  
15/ November/2022

20/ November/2022

Work PackageID

Work Package Name Description

Person

Date Start

Date End

Work PackageID

Work Package Name Description

Person

Date Start

Date End

1.3.2

Coding the Functions in all Tasks

Programmer

21/ November/2022

21/December/2022

Work PackageID

Work Package Name Description

Person

Date Start

Date End

1.3.1

Test Smart Card

Tester

26/ December/2022

31/ December/2022

Work PackageID

Work Package Name Description

Person

Date Start

Date End

1.3.3

Test Devices

Tester

22/ December/2022

25/ December/2022

1.4 finishing

1.4.1

Test the Device

Tester

1/January/2023

3/ January /2023

Work PackageID

Work Package Name Description

Person

Date Start

Date End

1.4.2

Explan and Fixed Errors

Programer

4/ January/2023

10/ January/2023

1.4.3

Connect and test smart card

Team leader

11/ January/ 2023

13/ January/2023

Work PackageID

Work Package Name Description

Person

Date Start

Date End

Work PackageID

Work Package Name Description

Person

Date Start

Date End

Work PackageID

Work Package Name Description

Person

Date Start

Date End

**Aroles and responsibilities matrix**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Markting**  **manager** | **designer** | **Tester** | **Software**  **engineer** | **Team**  **leader** | **Project**  **manager** |  |
|  |  |  | **C** | **R** | **A** | **Create the device and**  **Smart card** |
|  |  | **C** | **P** | **P** | **R** | **Test the device and smart card** |
|  |  |  | **C** | **P** | **A** | **Correct errors** |
|  |  | **C** | **P** | **P** | **R** | **Test after correction** |
| **P** | **C** |  |  | **R** | **A** | **Smart card design** |
| **C** |  |  |  | **R** | **A** | **Device markting** |

**A = Approves**

**R = Review**

**P = Participant**

**C = create**

Network

|  |  |  |
| --- | --- | --- |
| 22 | B | 29 |
| 24 | Component | |
| 46 | 7 | 53 |

|  |  |  |
| --- | --- | --- |
| 29 | D | 39 |
| 24 | Making Device | |
| 53 | 10 | 63 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | | | |
| 0 | A | 22 | |
| 0 | Define Requirment | | |
| 0 | 22 | | 22 |

|  |  |  |
| --- | --- | --- |
| 22 | C | 27 |
| 0 | Dividing Tasks | |
| 22 | 5 | 27 |

|  |  |  |
| --- | --- | --- |
| 39 | F | 42 |
| 24 | Test Devices | |
| 63 | 3 | 66 |

|  |  |  |
| --- | --- | --- |
| 27 | E | 57 |
| 0 | Coding Functions | |
| 27 | 30 | 57 |

|  |  |  |
| --- | --- | --- |
| 57 | G | 66 |
| 0 | Test Smart Card | |
| 57 | 9 | 66 |

|  |  |  |
| --- | --- | --- |
| 66 | H | 76 |
| 0 | Explan and Fixed Errors | |
| 66 | 10 | 76 |

|  |  |  |
| --- | --- | --- |
| ET | ID | EF |
| SL | Description | |
| LF | DUR | LF |

|  |  |  |  |
| --- | --- | --- | --- |
|  | | | |
| 76 | i | | 78 |
| 0 | Connect and test smart card | | |
| 76 | 2 | 78 | |  |

Resources

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ID | RES | DUR | ES | LF | SL | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 1 | 2P | 3 | 0 | 22 | 0 | 2 | 2 | 2 |  |  |  |  |  |  |  |  |  |
| 2 | 4P | 1 | 22 | 53 | 3 |  |  |  | 4 |  |  |  |  |  |  |  |  |
| 3 | 1P | 1 | 22 | 27 | 0 |  |  |  | 1 |  |  |  |  |  |  |  |  |
| 4 | 3P | 2 | 29 | 63 | 3 |  |  |  |  | x | x | x | x | 2 | 2 |  |  |
| 5 | 4P | 4 | 27 | 57 | 0 |  |  |  |  | 4 | 4 | 4 | 4 |  |  |  |  |
| 6 | 1P | 1 | 39 | 66 | 3 |  |  |  |  |  |  |  |  | 1 |  |  |  |
| 7 | 1P | 2 | 57 | 66 | 0 |  |  |  |  |  |  |  |  | 1 | 1 |  |  |
| 8 | 2P | 1 | 66 | 76 | 0 |  |  |  |  |  |  |  |  |  |  | 2 |  |
| 9 | 2P | 1 | 76 | 78 | 0 |  |  |  |  |  |  |  |  |  |  |  | 2 |
| Total resource load | | | | | | 2 | 2 | 2 | 5 | 4 | 4 | 4 | 4 | 4 | 3 | 2 | 2 |
| Resource available | | | | | | 5p | 5p | 5p | 5p | 5p | 5p | 5p | 5p | 5p | 5p | 5p | 5p |

Time baseline

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ID | Budget | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| A | 60 | 20 | 20 | 20 |  |  |  |  |  |  |  |  |  |
| B | 10 |  |  |  | 10 |  |  |  |  |  |  |  |  |
| C | 5 |  |  |  | 5 |  |  |  |  |  |  |  |  |
| D | 50 |  |  |  | 25 | 25 |  |  |  |  |  |  |  |
| E | 40 |  |  |  |  | 10 | 10 | 10 | 10 |  |  |  |  |
| F | 5 |  |  |  |  |  |  |  |  | 5 |  |  |  |
| G | 10 |  |  |  |  |  |  |  |  | 5 | 5 |  |  |
| H | 10 |  |  |  |  |  |  |  |  |  |  | 10 |  |
| I | 10 |  |  |  |  |  |  |  |  |  |  |  | 10 |
| TOTAL | 200 | 20 | 20 | 20 | 15 | 35 | 35 | 10 | 10 | 10 | 5 | 10 | 10 |
| Cumulative |  | 20 | 40 | 60 | 75 | 110 | 145 | 155 | 165 | 175 | 180 | 190 | 200 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A | 20 | 20 | 20 |  |
| B | 10 |  |  |  |
| C | 5 |  |  |  |
| D | 25 | 25 |  |  |
| E | 10 | 10 | 10 | 10 |
| F | 5 |  |  |  |
| G | 5 | 5 |  |  |
| H | 10 |  |  |  |
| I | 10 |  |  |  |

Cost By Week : -

Risk Manageent

There are some risks facing the project,including : -

1\_ increase in the cost : -

* we can deal this risk through,Reducing project reqirements.

2\_ people not interact with modern technology.

* \_we can deal this risk through,Good marketing by spreading the benfit of the project and its importance.

3\_the possibility of hacking the device.

\_we can deal this risk through,increase the protection of the device and know is trying to hack the device.