1. ***Technical Feasibility***

We summarize the meaning of technical feasibility in one question, can we build this system. Yes, we can build this system to help protect the Egyptian citizen and ensure his safety By building a database in which the citizens ’health data is developed and dealt with by the computers in each health institution.

**Although the system is technically practical, there are some risks, including:**

* Difficulty dealing with the new system (database), and therefore to use new technology where it is difficult in the beginning to get used to dealing with it.
* The need to learn to use this technology leads to major problems, such as delays in recording citizens ’health data, and therefore because this technique has not been used before in the organization.
* The size of the project represents a great risk and therefore in the case of large projects, because they are more complex in management, and there is a greater opportunity to misunderstand some important system requirements.
* The work of the system with other systems is one of the threats to the system, in order to increase the complexity when working more than one organization with.
* The inability of the new system to integrate with the current environment, and this causes many problems, because with the inability of the system to integrate with the current system, it causes the inability to obtain important data from the old system.
* Also, with the inability of the system to integrate with the current environment, it causes the current system not to be used as an infrastructure for the new system (automated system).

|  |  |
| --- | --- |
| Development Costs | Operational cost |
| Hardware:   * Server * Desktop devices   Software:   * server * license * Microsoft World. * Access. * Data Base Management System tools. * winds * tool for applacation   Development team salary:   * Labor: Analysis and design * Labor: Implementation | Software upgrades:   * Microsoft World. * Access. * winds   Software licenses:   * Microsoft World. * Access. * winds   Hardware upgrades:   * server. * Desktop devices   Hardware repair:   * server. * Desktop devices |
| Tangible profit | intangible profit |
| 1. It will reduce the number of imported medicines. 2. The massive spending on expanding medical buildings and facilities will be eliminated. 3. It is possible to export the Egyptian medicine. 4. Reducing employment. 5. Reducing annual spending on paper records. 6. Exploiting the surplus from the health budget in another field 7. Reducing the annual health budget | 1. The Egyptian citizen feels good 2. Increasing the percentage of happiness for the citizen 3. The citizen’s sense of belonging to the homeland 4. Increasing Egypt's regional and international center 5. Increase creativity for the Egyptian citizen |

***2-Economic Feasibility***

***1. Identify Costs and Benefits***.

***2. Assign Values to Costs and Benefits:***

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | ***Years1*** | ***Years2*** | ***Years3*** | ***Years4*** | ***Years5*** | ***Total*** |
| *Beanfits*   * It will reduce the number of imported medicines. * The massive spending on expanding medical buildings and facilities will be eliminated. * export the Egyptian medicine. * Reducing employment. * Reducing annual spending on paper records.   Total Benefits | ***//***  ***//***  //  //  //  // | ***20,000,000***  ***10,000,000***  ***10,000,000***  ***10,000,000***  ***2,000,000***  ***52,000,000*** | ***20,000,000***  20,000,000  10,000,000  10,00,000  2,000,000  62,000,000 | 30,000,000  30,000,000  15,000,000  11,000,000  3,00,000  79,000,000 | 30,000,000  30,000,000  15,000,000  11,000,000  3,000,000  79,000,000 | *100,000,000*  *90,000,000*  *50,000,000*  *42,000,000*  *12,000,000*  *272,000,000* |
| Development Costs |
| 1. 10-Labor: Analysis and design 2. 10-Labor: Implementation 3. Software   -Software  For server  -license  other application  (winds-word-DBMS)  For 10 device  4.Hardware  68-Server  2600-Desktop devices  Total Development Costs | 600,000  600,000  100,000  20.000  78,00,000  26,000,000  34120,000  69240,000 | 0  0  0  0  0  0  0  0 | 0  0  0  0  0  0  0  0 | ***0***  ***0***  ***0***  ***0***  ***0***  ***0***  ***0***  ***0*** | ***0***  ***0***  ***0***  ***0***  ***0***  ***0***  ***0***  0 | ***600,000***  ***600,000***  ***100,000***  ***20,000***  78,00,000  26,000,000  34120,000  69240,000 |
| Operational Costs:   1. ***Hardware***  * upgread * repair | ***//***  ***//*** | ***70,000***  ***30,000*** | **70,000**  ***30,000*** | ***70,000***  ***30,000*** | ***70,000***  ***30,000*** | ***280,000***  ***120,000*** |
| 1. ***Software***  * Upgread * Repair * licenss | ***//***  ***//***  ***//*** | ***260,000***  ***20,000*** | ***260,000***  ***20,000*** | ***260,000***  ***20,000*** | ***260,000***  ***20,000*** | ***1040,000***  ***80,000*** |
| 1. *Labor:*  * Webmaster * Network technician * Computer operations * Business   manager   * Assistant manager   Total operational cost: |  | 85,000  60,000  50,000  60,000  45,000  680,000 | 87,550  61,000  51,000  60,000  45,000  684,550 | 90,177  62,000  52,000  60,000  45,000  689,117 | 90,000  63,000  53,000  60,000  45,000  ***691,000*** | 352,727  246,000  ***206,000***  ***240,000***  ***180,000***  ***2744,727*** |

***Total Costs : 69,240,000 680,000 688,550 689,117 691,000 71,984,727***

*Total Beneﬁts :* 52,000,000 62,000,00079,000,00079,000,000272,000,000

Total Beneﬁts - Total Costs : (69,240,000) 51,320,000 61,312,000 783110,880 78309,000 904,81,288 Cumulative Net Cash Flow: (69,240,000) (17,919,000) 43,393,000 826,503,880 904,812,880

Return on Investment (ROI): 12.569% (904,812,880 /***71,984,727 )***

Break-Even Point: 1+(( 61,312,000 -43,393,000)/ 61,312,000)=1.292 year

1. **Organizational Feasibility**

* User participation should be promoted throughout the development process to make sure that the final system will be accepted and used, by getting users actively involved in the development of the system.
* It is necessary that there is more than one champion for the project because if the champion leaves the organization, the support can leave as well and this negatively affects the project.

|  |  |
| --- | --- |
|  | Role |
| Champion | **A champion:**   * Initiates the project * Promotes the project * Allocates his or her time to the project * Provides resources |
| Organizational Management | **Organizational managers:**   * Know about the project * Budget enough money for the project * Encourage people to use the system * Encourage people to accept the many changes that the system will likely create**.** * support conveys to the rest of the organization the belief that the system will make a valuable contribution and that necessary resources will be made available. * Market the benefits of the system, using memos and organizational newsletters. |
| System Users | **Users:**   * Make decisions that influence. * Ultimately determine whether the project is successful by using or not using the system. |