**Requirement Traceability Matrix:**

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| ***ID*** | ***Requirement Types*** | ***Requirements Description*** | ***Business Need, Oportunities, Goals and objectives*** | ***Project Objectives*** | ***Test Cases*** |
| 001 | Business | Collect the details of Pilot Angel Volunteers such as Name, Address, Phone Number, Total Hours, Certifications, Ratings | Services provided to the patients are optimized since it will be easier to coordinate volunteer’s tasks | Easy access to volunteer details. | 1)Check number of rows and columns of volunteers table. 2) Check the names of the columns |
| 002 | Business | Collect the details of volunteer aircrafts such as Type of plane, Aircraft Identification number, Type of engine, Capacity for passengers and cargo, | Matching patients and passenger’s requirements with the aircraft that has appropriate features. | Easy access to Aircraft details | 1) Check number rows and columns of Aircraft table. 2) Check the names of the columns |
| 003 | Business | Collect details about clients (People, Hospitals, Clinics, Organ banks) that contact Pilot angel services. | With the details of the clients they can deliver their services better. | Details of the clients can be used for business intelligence. | 1) Check number rows and columns in the tables of the clients. 2) Check the names of the columns |
| 004 | Business | Collate information about Passengers and patients. | Requirements of patients and passengers are understood so that necessary services can be provided for them. | Easy access to information about passengers and patients. | 1) Check number rows and columns in the tables of the Patients and Passengers. 2) Check the names of the columns |
| 005 | Solution (Functional) | Streamline the information of Pilots with the aircraft. | Encourage the contributing pilots with recognition and rewards. | Specific Pilots can be identified for their contributions. | Check all the details of flights by a pilot is rightly populated. |
| 006 | Solution (Functional) | Streamline the information of Passengers with the aircraft. | Appropriate aircraft can be assigned to passengers based on their needs | Passengers who were on a flight can be identified | Check all the details of Passenger that were on a flight. |
| 007 | Solution (Functional) | Make a table with travel information which can include Time of travel, Total fuel used, Source & Destination of the travel and ID of the aircraft that has been used. | With proper management of resources service will be effective. | Easy management of their resources. | Cross check populated data in the system with that of the data that is available before. |
| 008 | Solution (Functional) | Create a Database design that includes all the tables. | With a appropriate database design data duplication can avoided, data is lost at any point of time and data can be retrieved on demand. | Data consistency across the tables. | Check if change of data in one table is reflected in all other tables. |
| 009 | Solution (Non-Functional) | Installation of Operating System and necessary software. | Necessary installations are required for the execution of project. | Enabling effective project implementation. |  |
| 010 | Transition | Support system is needed after completion of project. | Any issues that might occur are handled through support system. | Project maintenance. |  |
| 011 | Project | Preparation of project timelines, schedules | On time delivery of project. | Completing project on schedule. |  |
| 012 | Project | Assign appropriate project roles to human resources. | Better accountability will help resolve issues in time. | Delegation of responsibilities improves accountability. |  |

**Scope statement:**

**Description:** Husky Air- Pilot Angels will advance the volunteering work by establishing a computerized system for creating the database of all the volunteers, patients, services cost being involved in fulfilling the service starting with collecting all the raw data. This improvement will facilitate in optimizing the business value by reducing the time cycle for carrying out the various tasks and also building on their network. The project will be completed by Spring, 2017.

**Acceptance criteria:**

All test cases are passed which mainly comprises of backup and restore testing of all the raw data collected and software installed is done.

System working is proper under the measured capacity and size of data repository required by the processes.

Data consistency and data integrity across all the tables.

**Deliverables:**

A data repository is created which consists of a proper design of a data model that consists of all the business requirements in completing the project.

The data repository chosen should be of sufficient capacity and size so that we carry out the work with good performance.

The major constraint is to ensure the security of the data.

**Project exclusion:**

Information of hospitals, organ donators will be of high level but not in great detail.

**Constraints:**

Scope, cost and time frame are constraints for this project just like other projects. Change in one constraint will definitely effect either one of the constraints or both of them. These constraints plays an important role for the completion of this project.

Project should be completed within the budget allotted.

**Assumptions:**

Aircrafts will run effectively without any technical issues.

Everything will go well according to the planned schedule.

Co-ordination among doctors, organ giving places and pilots will be good so that nothing can go wrong.

There will be enough equipment and care takers in aircrafts for giving first aid to patients till they reach hospitals.