Feasibility Analysis – Husky Air Airplane Rental System

**Technical Feasibility**

* Familiarity with Functional area:

The Husky Air staff is very familiar with the functional areas and processes involved in their current system. However, the current system is a manual system, so the users do not have familiarity using any type of application or existing system to perform the processes and functions involved. The analysis process will involve working closely with the Husky Air employees that will be using the system in order to understand the business processes and other aspects the system will need to support. The functions may be changed or appended through the new system implementation, therefore, the process of understanding functions is iterative.

* Familiarity with Technology:

This will be a new system replacing the current manual system, so it will require basic training for the Husky Air users in order to familiarize them with the system itself and how to perform the necessary functions and processes. The technology itself is not new so risks regarding familiarity with the technology are relatively low.

* Project Size:

The project does not seem to be very large in size – the goals can be accomplished with a development team of 2-3 people. The total amount of time needed to complete the project is estimated to be 320 total hours.

* Compatibility:

No information provided about any other existing Husky Air systems with which the new system will need to integrate with.

**Economic Feasibility**

Costs and Benefits:

* Development Costs:
  + Software development
  + Hardware
  + Installation
  + Associated software license fee
* Operational costs:
  + User training
  + Hardware upgrades
  + Software Maintenance/License
  + Server/maintenance costs
  + Other(i.e. help-desk or supporter)

Benefits:

* Ability to manage increasing number of instructors and planes available for lessons and rentals in a much more efficient way.
* Application will be able to automate several tasks to save time and administrative costs.
* Increase the efficiency of scheduling reservations and record keeping.
* Convenient way for customers to schedule or modify/cancel an existing reservation.
  + Help avoid/reduce revenue loss from plane idle time
* Increase customer base
* Increase number of lessons booked and plane rentals.
* Extend the business to new type of planes and add the number of planes and instructors to meet the increasing requirements

Cost Benefit Analysis

|  |  |
| --- | --- |
| Benefits: | Amount |
| Increased sales | unknown |
| **Total Benefits** | **unknown** |
|  |  |
| Development Costs: |  |
| Hardware | $4,000 |
| Software development\*  License fee | $32,000  $2,000(TBD) |
| **Total Development Costs** | **$38,000** |
|  |  |
| Operational Costs: |  |
| User training | $2,000 |
| Maintenance  Server  Others | $2,400  $3,600  $2,000 |
| **Total Operational Costs** | **$10,000** |
|  |  |
| **Total of All Costs** | **$48,000** |
|  |  |
| \*320 total hours at $100/hour, includes time for installation |  |

**Organizational Feasibility**

* Is the project strategically aligned with the business?

This project is strategically aligned with the business objectives for Husky Air. The new system can greatly improve efficiency of the business processes currently being performed through the manual system, can reduce the time needed to perform tasks, and will increase data and record keeping capabilities. Husky Air wants to improve scheduling and make more planes and instructors available to customers and the new system will enable them do that. The system will also help Husky Air increase its customer base and sales of rental planes and instructor lessons.

* Users/Stakeholders
  + Project champion(s): Husky Air management
  + Users: the system users include Husky Air office staff responsible for managing the reservations and rentals of the planes.