Project Charter

Husky Air Project

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## Project Description

Automated Husky Air project will develop a computer and mobile-based system to track the records about the Pilot Angels program of Husky Air. Pilot Angels program matches the volunteer private pilots with the needy patients and the patients are taken to the treatment service locations. Currently, information regarding this program is stored and tracked manually using spreadsheets by Husky Air management. Implementing Automated Husky project will eliminate the manual tasks of file processing and automates the record-storing and data-tracking process. The new system will be accomplished by creating an online database that will include the records of pilots, patients, and Husky Air employees.

## Project Purpose

The main purpose of this project is that Husky Air will be able to coordinate and manage the Pilot Angels Program through the web and mobile-based system. The online database will provide easy access to the information. It also makes data entry and retrieval easier for Huskie Air management and volunteer pilots. Data will be secure and can be used for decision-making purposes, such as checking the availability of pilots and rewarding volunteers for their contributions.

## Business Case

Automated Husky Air project will capture the information of the Pilot Angels program in an online database and can be accessed using the web and mobile-based applications. It will eliminate manual file processing tasks. The new system will provide easy access to the information and the program can be managed efficiently. The data will be reliable and stored securely, and it can be used to make better business decisions. It also ensures collaboration between the management and volunteer pilots.

## Business Requirements

Automated Husky project will develop a computer and mobile-based system to track the details of the Pilot Angels program. The new system will develop a user interface, both, web-based and mobile-based applications to access, add and edit the information. The information can be used for decision-making purposes.

## Assumptions

* The project approval is provided by Husky Air.
* The budget for the project will be fully funded by Husky Air.
* Relevant resources and technology are available.
* Skilled team is available.
* Scope is well-defined.

## Constraints

* Limited timeframe.
* Partial or missing information from the file system.
* Availability of skilled team members.
* Extra budget and resources required for PC installation and operation at the airport.
* Skilled staff for the application usage.
* People unwilling to adapt to changes in the system.

## Risks

1. Scope Creep**:** People, organization, process, and technology are all required to build it. If any of these move out of the boundaries, it will have an impact on the project's overall scope including budget, and schedule.
2. There are high chances of missing or rewriting the information while transferring it from files to the new system which may create data inconsistency.
3. Development time will be one of the major risks as we program and debug the system. Losing unsaved information could greatly impact the timeline for the project.
4. Scheduling the project and adhering to the timelines may be difficult at times of blockages. This may impact the overall delivery of the product.

## Project Deliverables

* The web and mobile-based system to track and record the information of the Pilot Angels program.
* Related database of the project is delivered.
* The system (PC) will be installed and operated at the airport.
* Training will be provided to Husky Air personnel.
* The final report and project evaluations are delivered.

## Project Milestones

|  |  |  |
| --- | --- | --- |
| Milestone Date | Milestone Name | Milestone Description |
| [June 20, 2022] | Completion of System Requirements | All system requirements are gathered and the project is baselined for design and production. |
| [July 10, 2022] | Finalized Model | The interface and the software application functionalities are created. |
| [August 15, 2022] | Development Complete | The application development is finished and ready to be tested. |
| [September 15, 2022] | Testing (Phase 1) Complete | Verify that all the conditions have been met. |
| [October 10, 2022] | Rectifying Errors (if any) in Testing (phase 1) Completed | Rectify any errors which have occurred in Phase 1 testing. |
| [October 30, 2022] | Testing (Phase 2) Completed | Verify again that all the conditions have been met. |
| [November 10, 2022] | Deployment Completed | The application is now fully up and running. |

## Project Manager

Kara Allen is the project manager for our project. She manages all lifecycle stages and completes projects on time and within budget. She has more than five years of expertise and a PMP certification.  
  
Her roles and responsibilities are:

* Designing a project plan.
* Supervising and directing the team members.
* Determining and approving the approach taken for the project.
* Dealing with top management.
* Speaks on behalf of the team and informs all clients of work progress on a regular basis.
* She does a thorough check to confirm the software's performance once the project has been developed and assessed by the testing team.

## Project Roles and Responsibilities

|  |  |  |
| --- | --- | --- |
| Name | Role | Responsibilities |
| Kara Allen | Project Manager | Establishing long-term and short-term goals, outlining milestone targets, and complying with deadlines. |
| Megha Sudha Aluru | Team Lead | Shares the goals and deadlines with the team members and manages workloads by allocating responsibilities. |
| Manisha | Developer | Responsible for application development, coding, deployment, and maintenance of the application. |
| Gouri Patil | Tester | Responsible for test analysis, which includes looking for defects, errors in the application, and the application’s functionality. |

## Project Life Cycle Methodology and Tools

The SDLC's Waterfall Model is used in this project. The waterfall model splits project operations into clear, sequential stages, each of which corresponds to a specific series of tasks and is based on the outputs of the previous steps.

There are 6 stages in this model which are:

* Requirement Gathering
* Design Stage
* Implementation
* Testing
* Deployment
* System Maintenance

Tools used for this project are:

* Trello and Microsoft Teams for internal communications.
* Outlook for external communications.
* Oracle Data Management Suite and Tableau for data handling.
* Google Cloud for data storage.
* HTML, JS for frontend and MongoDB, Django for backend development.
* ALM for tracking the progress of the application.
* Selenium for testing.

## Authorization

The project sponsors consent is requested to review this document. The project sponsors may update and approve any modifications.

Approved by the Project Sponsor:

Prof. John Pendergrass Date: June 23rd, 2022

Northern Illinois University