Specter Designs

Vision (Small Project)

Version <2.0>

Revision History

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# Introduction

The purpose of this document is to collect, analyze, and define high-level needs and features of the HOOF KY. It focuses on the capabilities needed by the stakeholders and the target users, and **why** these needs exist. The details of how the HOOF KY fulfills these needs are detailed in the use-case and supplementary specifications.

## References

HOOF KY strategic assessments provided by Doctor Barker.

# Positioning

## Problem Statement

|  |  |
| --- | --- |
| The problem of | HOOF KY not having a centralized Database to backup and share data |
| affects | The board members of HOOF KY |
| the impact of which is | Difficulty of communication within the company, low data security, and poor tracking of donors, volunteers and the troubled youth they are helping |
| a successful solution would be | to create a website with a database that the board members could use store all company data that every appropriate member has access to which would help maintain data accuracy and security. |

## Product Position Statement

|  |  |
| --- | --- |
| For | the board members of HOOF KY. |
| Who | have data spread through several personal computers and difficulty communicating. |
| The DataBase | is a software application. |
| That | will centralize the specified data. |
| Unlike | storing the data on personal devices in which the owner is the only one who will have access. |
| Our product | will centralize the data so that every board member can access the data at any time and changes to the data will be seen by all members. |

# Stakeholder and User Descriptions

The stakeholders in this project would include the board members of HOOF KY, the troubled youth they help every year, and the donators who show a regular interest in the organizations. This project will also affect the average user who is just curious about the organization or looking to donate either now or in the future. The Board Members of HOOF KY can adequately represent the users as they rely heavily (if not entirely) on donations from people and the help of volunteers to keep the organization running. The key problems perceived by the HOOF KY why is the lack of a fully functioning website, and there is no centralized data storage with in the company. Without a fully functioning website, the organizations outreach is severely limited, for example, a person interested may search for HOOF KY and find the current website but then be turned away by the disorganization and incompleteness of the website. The lack of centralized storage also creates a lot of disorganization as all organization information/data is stored on personal devices and is backed up only if the device owner chooses to do so. If one-member needs information/data that they don’t currently have, they must first track down the owner of the data, ensure the data they have is up to date and accurate and request it be sent to them.

## Stakeholder Summary

|  |  |  |
| --- | --- | --- |
| **Name** | **Description** | **Responsibilities** |
| Board Members of HOOF KY | The board members of HOOF KY would the primary users of the new systems that have been proposed | This stakeholder would be responsible for this project’s funding, monitoring progress and providing feedback. As they will be the primary user of the final product, their input and feedback will be very important when trying to ensure they’ve received a satisfactory product that they know how to use and maintain. |

## 

## User Summary

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Description** | **Responsibilities** | **Stakeholder** |
| Potential Supporters | They represent the demand for a fully functional website as one of the primary users | They will be using the website to find information about the organization, to contact the organization as well as donate to the organization. | Self |
| Troubled youth looking for help | They represent the demand for a fully functional website and the organization itself | They will use the website to learn more about the organization and how they can receive/sign-up for help if they need it. | Self |
| Data Keepers for HOOF KY | They represent the demand for a centralized database | They will use a centralized database to store and backup all data pertaining to the company so that everyone who needs access to said data can access it from any device given access to the database and the data will be up to date and accurate | Board Members of HOOF KY |

## User Environment

The users will be able to access their new specialized system remotely and locally. Remote access will allow for data to be read/written wirelessly. This being a primarily wireless system, housed centrally within the organization of HOOF KY, will allow for a user to improve efficiency as well as access time for sensitive data. Multiple mobile platforms will be supported and will allow for the primary users/ stakeholders to access/archive HOOF KY’s data without having just one type of device supported.

## Summary of Key Stakeholder or User Needs

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Need** | **Priority** | **Concerns** | **Current Solution** | **Proposed Solutions** | |
| Secure Remote Access | High | Management of private information | None | | Manage access by using a third-party software service to allow users to keep accounts and limit access to unauthorized users |
| Easy to Use | Moderate | Ability to provide the user with easy navigation and preventative maintenance technology | None | | Provide a friendly UI and guided navigation in applications regardless of wireless device configuration that is currently in use. |
| Responsive | High | Rely on a technology link for fast response times for user access | None | | Contact a third party provider for hosting purposes to ensure fast/prompt access times whether it be server based or local access |
| Database Configuration | High | Have the ability to construct a centralized location for data to be managed and accessed | None | | Design and implement a centralized system to allow remote/ local access to users to HOOF KY users as well as Board Members to keep track of donations, auction attendees, and individuals attending their programs. |
| Scalable | Moderate | None | None | | Allow a great number of users to access the new hardware/ software and provide a smooth upgradable access for end users. Can be managed with a server based hardware and software. |
| Webpage | High | The current webpage is not up to the standards of a competitor website. | None | | A complete redesign of the current web page to allow for visitors to adequately donate and access contact information. This will allow the board members of HOOF KY to manage finances and volunteer information more smoothly. |
| Backend Technology | High | Non-existent in current I.T. analysis | None | | Install a server-based system to manage heavy traffic flow as well as data received from the website such as volunteer information. |

## Alternatives and Competition

* + 1. Third Party designing and implementing front end/ back end technology
    2. HOOF KY designing and implementing its own website and keeping current data access methods
    3. Keep the current layout and website layout

# Product Overview

Assumptions and Dependencies

HOOF KY will be developed using the results of a cost benefit analysis; which allows their organization to be improved upon. Will be primarily developed using this approach and will adhere to this model mentioned in the system request document as well as the section 3 of the Vision document.

# Product Features

* 1. Allow remote user access
  2. See donor information – name, address, amount
  3. Manage auction information – name, amount, item purchased
  4. Manage primary user and stakeholder information – name, account, access times
  5. Manage attendee information – name, age, school, organization location
  6. Monitor server health – information on traffic and hosting services
  7. Classify users as different levels of access
  8. Manage back end services from webpage – volunteer information and donor information
  9. Manage content displayed on webpage
  10. View the status of the web traffic
  11. Schedule events and allow for them to be published to users and webpage visitors
  12. Campaign management – donations and events

# Other Product Requirements

* 1. Security for the HOOF KY organization includes authentication, data integrity, and data privacy.
  2. Authentication of the user is by username and password.
  3. Members of the organization can monitor and change the state of the information system.
  4. Virtual access and data entry should be encrypted for privacy concerns.
  5. Ease of use (especially safety related features) can be a concern due to security concerns
  6. Responsiveness is important for quick user requests or changes.
  7. Capacity - Maximum number of users to visit the website or access internal centralized databases

# Appendix A - Feasibility

***Narrative:*** *This attached file represents our project feasibility analysis plan, where the major items that will make up our feasibility study are laid out.*

***Feasibility Analysis***

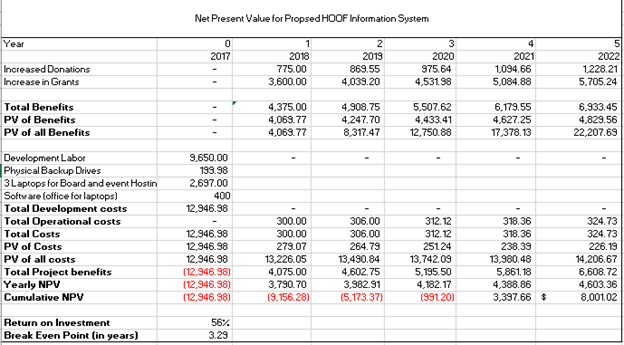
*The feasibility for this project will consist of several major elements. The technological, economical, and organizational. Each of these will have to be analyzed related to HOOF in a variety of ways.*

*Technological feasibility will mostly be measured in compatibility. Because our plan is designed around a cloud based approach, it should be easily incorporable into HOOF’s existing system relying on user devices. Maintenance should also not be an issue for HOOF’s lack of technical staff since all server maintenance will be in the hands of the cloud provider.*

*The economic analysis was conducted via net present value to get a preliminary return on investment for the project. Our estimates were s 56% ROI based on our expected costs for the system. The chart of costs is attached to this document, outlining where the costs are going and the point at which break-even will be achieved for the project.*

*The organizational analysis around how easy this would be to implement showed that the system would not be a significant overhaul but still may require training for board members and volunteers. The shift from the spread documents and paper based keeping of before is being completely digitized, so those in charge of data keeping will need retrained on how to use the new system. But after this training, there should be no impact on the organizational flow.*

*Based on these analysis, we feel this project should represent a reasonable investment for HOOF, as within all 3 feasibility scopes the project will interface well with the HOOF organization. They will benefit financially, the technology will fit their organizational needs, and there will be little organizational disruption in the implementation of this system.*

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