# *Assignment 1 – HVK Requirements Analysis*

Date assigned: Tuesday, September 7, 2021

Date due: **Part A:** **Tuesday, September 14, 2021 @ 8am - No late assignments accepted.**

**Part B: Monday, September 20, 2021**

\*The user stories in this assignment will be amalgamated from all of the groups into a single set of user stories to be used for the semester. This amalgamation is on Tuesday, September 14 at 8, and is the reason that there are no late assignments accepted for Part A.

**Learning Objectives**

Upon successful completion of this assignment, the student will be able to:

* Create a requirement gathering survey;
* Identify and categorize non-functional requirements;
* Perform domain research; and
* Determine the User Stories for the HVK system.

**To do:**

**Create a document called YourUserName\_K20\_A01.docx. It will hold your answers for Parts B – D. These parts are done individually.**

**Part A – User Stories (To be completed as a group)**

**Create a document called** **YourGroupName\_K20\_A01\_User\_Stories.docx, e.g. Group1\_K20\_ A01\_User\_Stories.docx, and save in the Assignment folder in the 420-K20 folder in your H drive.**

Using the criteria and format discussed in class and the initial interview documentation, the class will develop the initial set of user stories for the HVK system. You have been broken into groups for this portion of the assignment (the same groups as in your database class). Each group is responsible for converting the HVK Case Study into a complete set of user stories. Note that you do not need to include acceptance criteria for your user stories.

**Remember to number each user story and to group the user stories into logical units.** Do not worry about defining terms. Assume that terms such as run, dog and kennel are understood by the business.

Part of the lab time on September 7th will be used to work on your user stories.

|  |  |
| --- | --- |
| **Group Name** | **Team Members** |
| Group 1 | Xavier, Zachary, Darien |
| Group 2 | Justin, Madeleine, Igor |
| Group 3 | Kristina, Charles, Austin, Biola |
| Group 4 | Brahim, Nicholas, Marc |
| Group 5 | Julia, Tristan, Ricky, (James in Database) |
| Group 6 | Jeremy, Sebastien, Ayon |

Only 1 member of the team needs to upload this file to Moodle. All other team members should add a note to their file for parts A-C indicating who submitted the group part.

**Part B – Requirements Gathering Via Survey (To be completed individually)**

\*Note that the content for this portion of the assignment will be taught in class on Friday, September 10, 2021.

1. Using the techniques discussed in class, your notes and the Internet, create a short questionnaire (10 questions) that HVK could administer on their marketing website to determine what pet owners are looking for in an online kennel system. You want to ask questions about the services that the customer would be looking for, perhaps how often they would use the kennel, etc.

Remember to design the questionnaire to allow respondents to select from a range of answers and not specify the answers themselves. For example:  
How many times a year would you use the kennel?  
0-2 times 🞆 3-5 times 🞆 6-10 times 🞆 more than 10 times 🞆

1. What time of year would you be most likely to use the kennel?

* Jan, Feb, Mar
* Apr, May, June
* July, Aug, Sept
* Oct, Nov, Dec

1. How many pets would you consider making a reservation for at HVK?

* 0-1
* 2-3
* 4 or more

1. How long would you reserve a stay at the kennel?

* 0-1 days
  + - 2-4 days
* 5-7 days
* More than a week
* More than a month

1. What is your pet’s favorite thing to do among these choices?
   * + Grooming
     + Climbing
     + Walking
     + Barking
     + Playing
     + None of the above
2. How far in advance would you make a reservation at HVK?

* Less than one week
* 1-2 weeks
* 1-2 months
* 3-6 months
* More than 6 months

1. On a scale from 1 – 5, how good is/are your pet(s) with other animals?
   * 1
   * 2
   * 3
   * 4
   * 5
2. How are you most likely to make a reservation?
   * Online
   * Phone
   * In person
3. What is the main reason for you to book a reservation?
   * Vacation
   * Personal reasons
   * Business
   * Other
4. What time of day are you most likely to pick up your pet?
   * Morning
   * Noon
   * Afternoon
   * Night
5. What time of day are you most likely to drop off your pet?
   * Morning
   * Noon
   * Afternoon
   * Night

**Part C – Identifying Requirements (To be completed individually)**

1. List **5 non-functional requirements** for the HVK case study. For each non-functional requirement, categorize it as either: an operational requirement, performance requirement, cultural & political requirement, or security requirement.
2. Only staff members can access things the invoice, contract information and customer information. (Security Requirement)
3. Customers being able to make a reservation online during any hours of the day. (Performance Requirement)
4. The contract and invoice are to be printed for the customer’s arrival. (Operational Requirement)
5. The system is to respond to any changes make to any information as soon as it is changed (Performance Requirement)
6. The system is to calculate any totals. (Operational Requirement)

**Part D – Domain Research (To be completed individually)**

Use the Internet to research existing online reservation systems that exist for pet kennels. Research **three** different online reservation systems for pets that exist that could be used for HVK. For **each** **of the three** systems: **(30 MARKS)**

* Describe the system and provide the URL;

BoneVoyage

This system lets a user make a reservation for their pets as well as other services for small critters, puppy visits, private walks, and weddings.

<https://bonevoyage.ca/>

Bekkers Per Care

<http://www.bekkerspetcare.com/>

This system provides 4 different packages for the quality of the pet’s stays. They also have a service for dog daycare.

Ruff-House

<https://www.ruff-house.ca/>

This system provides different services such as dog walking, training, and nutrition for your pet. As a user you make a reservation at least 2 weeks in advance and plan for how long you want to leave your pet for the day.

* Describe the functionality provided and how it is similar to what Jim and Sally are looking for. What features does it have that Jim and Sally are asking for?

(BoneVoyage)

They allow you to make a reservation for your pet by specifying how many nights you want your reservation to be. They provide an option to make a reservation for two pets and it comes with discounts if you choose this option.

(Bekkers)

This system provides different packages for the user to choose from. It provides different services for how many pets you want to make a reservation for as well as what kind of care/services you want them to receive during their stay.

(Ruff-House)

They provide all the prices of all the things they offer so the user knows how much money they could potentially be spending during their pet’s stay at the kennel.

* What features is it missing that Jim and Sally have asked for?

(BoneVoyage)

A feature that’s missing is this system doesn’t provide an area for any additional information on the pet. You can only enter information on the fields they provide you.

(Bekkers)

A feature that is missing is that the user cannot specify what size of run they want for their pet. There is no option for specifying what size your pet is.

(Ruff-House)

They offer service during the week minus Sundays. This makes calculating the price for this kennel different than HVK. They don’t have to option for no charge on half day pickups. The system calculates the total based per day.

* Describe any interesting features that Jim and Sally might consider including in their system, which are not currently asked for.

We could have the system be supported on both mobile and desktop as well have it be supported on all browsers (Edge, Chrome, Firefox).

Have the system support multiple languages so everyone can understand the system.

Have the system be running 24/7 all year round.

Have an option for more customer information (Spouse information, Secondary contact information).

The customer can specify how long they want their pet to have a certain service.

HVK could have other services such as training and maybe a daycare service where the reservation would only last for one day.

**Marking Scheme**

|  |  |
| --- | --- |
|  | Marks |
| Part A – User Stories | 50 |
| Part B - Questionnaire | 10 |
| Part C – Non-Functional Requirements | 10 |
| Part D – Domain Research | 30 |
| Total | 100 |

**To submit**

* The following Word document must be uploaded to Moodle for Parts B-D:
  + YourUserName\_K20\_A01.docx
* In addition, one member of the group should upload the HVK User Stories to Moodle for the group:
  + YourGroupName\_K20\_A01\_User\_Stories.docx.