

Project: health-watcher

Stakeholders

Name: Citizen

Description: Any person who wishes to interact with the system.

Name: Employee

Description: Health System employee, placed on DIEVS.

Name: SystemOwner

Name: SystemDeveloper

Description: developers that design and implement the system, as well as for caring through the testing and homologation of the system.

Concerns

Name: ResponseTime

Description: The response time must not exceed 5 seconds.

Classification: Non-Functional

Sources:

- NFR Framework catalogue

Responsibilities:

- The response time must not exceed 5 seconds to log the system.
- The response time must not exceed 5 seconds to submit a complaint specification.
- The response time must not exceed 5 seconds to submit a query information.

Stakeholder-Priorities:

Stakeholder	Priority
Citizen	Very Important
SystemDeveloper	Very Important
SystemOwner	Very Important

Concerns-Contributions:

Concern	Contribution
Confidentiality	-
Integrity	-
Liability	+
Security	-
Throughput	-

Required By:

Concern
QueryInformation
ComplaintSpecification
Login

Name: Security

Description: The system should use a security protocol to send data over the internet.

Classification: Non-Functional

Sources:

- documents

Responsibilities:

- The system should use a security protocol to send complaint specification over the internet.
- The system should use a security protocol to send query information over the internet.

Stakeholder-Priorities:

Stakeholder	Priority
Citizen	Medium
SystemDeveloper	Medium
SystemOwner	Important

Concerns-Contributions:

Concern	Contribution
ResponseTime	-

Required By:

Concern
QueryInformation
ComplaintSpecification

Decomposition:

Type - and

Concern
Confidentiality
Integrity

Name: Compatibility

Description: Allow exchange of information with the SSVS system (Sanitary Surveillance System). This exchange will firstly be only to query sanitary licenses and on another time – when SSVS have deployed the Complaint Control module – it will be given the automatic entry of the Sanitary Surveillance complaint nature.

Classification: Non-Functional

Sources:

- document (use cases)

Responsibilities:

- Allow exchange of information with the SSVS system during complaint specification.
- Allow exchange of information with the SSVS system during query specification

Stakeholder-Priorities:

Stakeholder	Priority
SystemDeveloper	Very Important
SystemOwner	Very Important

Required By:

Concern
QueryInformation

Concern
ComplaintSpecification

Name: Integrity

Description: guarding againts unauthorized update and register data

Classification: Non-Functional

Sources:

- NFR Framework

Responsibilities:

- guarding againts unauthorized change log data
- guarding againts unauthorized register employees data
- guarding againts unauthorized register table data
- guarding againts unauthorized update complaint
- guarding againts unauthorized update employee
- guarding againts unauthorized update health unit

Stakeholder-Priorities:

Stakeholder	Priority
SystemDeveloper	Very Important
SystemOwner	Very Important

Concerns-Contributions:

Concern	Contribution
ResponseTime	-
Usability	-

Required By:

Concern
RegisterTables
UpdateComplaint
RegisterNewEmployee
UpdateEmployee
UpdateHealthUnit
ChangeLoggedEmployee

Name: QueryInformation

Description: Makes possible for a citizen to perform queries. Query Health Guide: The citizen might query: -Which health units take care of a specific specialty. -Which are the specialties of a health unit. Query Diverse Information The citizen might query: Information about the complaint made by the citizen: -Complaint specification. -Situation (OPENED, SUSPENDED, or CLOSED). -Technical analysis. -Analysis date. -Employee that made the analysis. Information about diseases: -Description. -Symptoms. -Duration.

Classification: Functional

Sources:

- documents (use cases)

Responsibilities:

- 1.The system receives the type of query
- 2.1In the case of a query on specialties grouped by health units, the citizen selects the unit to be queried.
- 2.2In the case of a query on health units grouped by specialties, the citizen selects the specialty to be queried.
- 2.3In the case of a query on complaints, the citizen provides the complaint code.

- 2.4 In the case of a query on diseases, the citizen selects the disease to be queried.
- 2. The system receives the data for the query
- 3. The system shows the query result.

Stakeholder-Priorities:

Stakeholder	Priority
Citizen	Important
SystemOwner	Very Important

Required Concerns:

Concern
Compatibility
Confidentiality
Liability
Response Time
Security
Throughput
Usability

Name: Complaint Specification

Description: This use case makes possible for a citizen to register complaints. Complaints can be: Animal Complaint – DVA •Animals apprehension. •Control of vectors (rodents, scorpions, bats, etc.) •Diseases related to mosquitos (dengue, filarirose). •Animals maltreatment. Food Complaint - DVISA •Cases where it is suspicious the ingestion of infected food. Diverse Complaint - DVISA •Cases related to several reasons, which are not mentioned above (restaurants with hygiene problems, leaking sewerage, suspicious water transporting trucks, etc.). The three kinds of complaints have the following information in common: •Complaint data: description (mandatory) and observations (optional); •Complainer data: name, street, complement, district, city, state/province, zip code, telephone number and e-mail. All these information are optional; •Complaint state (mandatory), which might be: OPENED, SUSPENDED or CLOSED. In the event of a registration, its state must be OPENED; •The system must register the complaint registration date. In addition to these data, each complaint has its specific ones. They are: Animal Complaint – DVA •Kind of animal (mandatory), amount of animals (mandatory), disturb date (mandatory); •Disturb location data: street, complement, district, city, state/province, zip code and telephone number. All these information are optional. Food Complaint - DVISA •Victim's name (mandatory); •Victim's data: street, complement, district, city (or closest one), state/province, zip code and telephone number. All optional; •Amount of people who ate the food, amount of sick people, amount of people who were sent to a hospital and amount of deceased people. All mandatory; •Location where the patients were treated, suspicious meal. All optional. Diverse Complaint - DVISA •Age (mandatory), scholar level (optional), occupation (optional); •Street, complement, district, city, state/province, zip code and telephone number of the closest location to the complaint location. All optional.

Classification: Functional

Sources:

- documents (use cases)

Responsibilities:

- 1. The system obtain the kind of complaint;
- 2. The system registers the kind, date and time of the attendance;
- 3. The system shows the specific screen for each type of complaint;
- 4. The system obtain the data;
- 5. The system saves the complaint (with the OPENED state), return the code for the attendance, so that the citizen can take note and query for the situation of his/her complaint.

Stakeholder-Priorities:

Stakeholder	Priority
Citizen	Very Important
SystemOwner	Very Important

Required Concerns:

Concern
Compatibility
Confidentiality
Liability
ResponseTime
Security
Throughput
Usability

Name: Login**Description:** allows an employee to have access to restricted operations on the Health-Watcher system.**Classification:** Functional**Sources:**

- documents (use cases)

Responsibilities:

- 1. The system receives the login and password from the employee
- 2. The system validates the password

Stakeholder-Priorities:

Stakeholder	Priority
Employee	Very Important
SystemDeveloper	Very Important
SystemOwner	Important

Required Concerns:

Concern
Confidentiality
ErrorHandling
Liability
ResponseTime
Usability

Required By:

Concern
RegisterTables
UpdateComplaint
RegisterNewEmployee
UpdateEmployee
UpdateHealthUnit
ChangeLoggedEmployee

Name: RegisterTables

Description: makes possible the registration of the system tables. For this use case are expected the insert, update, delete, search and printing. The tables are the following ones: •Health unit (unit code, unit description). •Specialty (code and description). •Health unit / Specialty (health unit and specialty). •Employee (login, name and password). •Type of disease (code, name, description, symptom and duration). •Symptom (code and description). •Type of

disease / Symptom (type of disease and symptom).

Classification: Functional

Sources:

- documents (use cases)

Responsibilities:

- 1. The system receives the option to register (insert/update) in one of the tables.
- 2. The system receives the data.
- 3. The system saves the data.

Stakeholder-Priorities:

Stakeholder	Priority
Employee	Very Important
SystemOwner	Important

Required Concerns:

Concern
Integrity
Login

Name: UpdateComplaint

Description: makes possible the update of the state of a complaint.

Classification: Functional

Sources:

- documents (use cases)

Responsibilities:

- 1. The system receives the option update complaint
- 2. The system requests the complaint number
- 3. The system shows the complaint code and its type
- 4. The system receives the conclusion
- 5. The system updates the complaint conclusion and the information about the employee who gave it

Stakeholder-Priorities:

Stakeholder	Priority
Employee	Very Important
SystemOwner	Very Important

Required Concerns:

Concern
Integrity
Login

Name: RegisterNewEmployee

Description: makes possible the registration of new employees on the system.

Classification: Functional

Sources:

- documents (use cases)

Responsibilities:

- 1. The system receives the following information about the new employee: Login, Name, Password (with

special fied for confirmation)

- 2. The system receives the confirmation of the operation

Stakeholder-Priorities:

Stakeholder	Priority
Employee	Very Important
SystemOwner	Important

Required Concerns:

Concern
ErrorHandling
Integrity
Login

Name: UpdateEmployee

Description: makes possible the update of the employee's data on the system.

Classification: Functional

Sources:

- documents (use cases)

Responsibilities:

- 1. The system receives the option update employee
- 2. The system receives employee data to be updated: ? Name ? New pasword (with extra field for confirmation)
? Current password
- 3. The system receive the confirmation to update
- 4. The system updates the employee's data

Stakeholder-Priorities:

Stakeholder	Priority
Employee	Very Important
SystemOwner	Important

Required Concerns:

Concern
ErrorHandling
Integrity
Login

Name: UpdateHealthUnit

Description: makes possible the update of health unit's data.

Classification: Functional

Sources:

- documents (use cases)

Responsibilities:

- 1. The system receive the option update health unit.
- 2. The system receives the health unit data to be updated.
- 3. The system shows the health unit's data.
- 4. The system receives data to update.
- 5. The system updates the health unit's data.

Stakeholder-Priorities:

Stakeholder	Priority
Employee	Very Important
SystemOwner	Very Important

Required Concerns:

Concern
ErrorHandling
Integrity
Login

Name: ChangeLoggedEmployee**Description:** makes possible the logged employee to be changed.**Classification:** Functional**Sources:**

- documents (use cases)

Responsibilities:

- 1. The system obtain the option change logged employee.
- 2. The system shows the login screen, and from then on, this main flow will follow the one described on [Login.FR10].

Stakeholder-Priorities:

Stakeholder	Priority
Employee	Very Important
SystemOwner	Low

Required Concerns:

Concern
ErrorHandling
Integrity
Login

Name: Usability**Description:** The system should have an easy to use GUI, because it might be used by any person who has access to the internet. The system should have an on-line HELP to be consulted by any person that uses it.**Classification:** Non-Functional**Sources:**

- documents (use cases)

Responsibilities:

- The system should have an easy to use to complaint specification
- The system should have an easy to use to login
- The system should have an easy to use to query information

Stakeholder-Priorities:

Stakeholder	Priority
Citizen	Medium
Employee	Medium
SystemDeveloper	Medium
SystemOwner	Medium

Required By:

Concern
QueryInformation
ComplaintSpecification
Login

Name: Liability

Description: The system should be available 24 hours a day, 7 days a week. Because of the nature of not being a critical system, the system might stay off until any fault is fixed.

Classification: Non-Functional

Sources:

- documents (use cases)

Responsibilities:

- the system need to be available to complaint specification 24 h a day and 7 days a week.
- the system need to be available to login 24 h a day and 7 days a week.
- the system need to be available to query information 24 h a day and 7 days a week.

Stakeholder-Priorities:

Stakeholder	Priority
Citizen	Medium
Employee	Medium
SystemDeveloper	Medium
SystemOwner	Medium

Concerns-Contributions:

Concern	Contribution
ResponseTime	+
Throughput	+

Required By:

Concern
QueryInformation
ComplaintSpecification
Login

Name: Standards

Description: The system must be developed according to the standards established by X , responsible for the norms and standardization of systems for the City Hall.

Classification: Non-Functional

Sources:

- documents (use cases)

Stakeholder-Priorities:

Stakeholder	Priority
SystemDeveloper	Medium
SystemOwner	Important

Name: HardwareandSoftware

Description: Here are listed the hardware and software to be used for the system to work. SOFTWARE • One license for the Microsoft Windows for the workstation HARDWARE • One computer with: Pentium III processor, 256 MB of RAM memory, net card 3Com 10/100. This equipment shall be used by the attendant as a workstation.

Classification: Non-Functional

Stakeholder-Priorities:

Stakeholder	Priority
SystemDeveloper	Important
SystemOwner	Very Important

Name: Distribution

Description: The system should be capable of running on separate machines. For example, the system core could be running on one machine and the servlets on another.

Classification: Non-Functional

Sources:

- documents (use cases)

Stakeholder-Priorities:

Stakeholder	Priority
SystemDeveloper	Medium
SystemOwner	Important

Name: UserInterface

Description: The user interface must be implemented using servlets.

Classification: Non-Functional

Sources:

- documents (use cases)

Stakeholder-Priorities:

Stakeholder	Priority
SystemDeveloper	Very Important

Name: StorageMedium

Description: The system must be capable of extension on the storage matter, making possible to use, arrays or different databases (MySQL, Oracle, etc.)

Classification: Non-Functional

Sources:

- documents (use cases)

Stakeholder-Priorities:

Stakeholder	Priority
SystemDeveloper	Very Important
SystemOwner	Medium

Name: Throughput

Description: The system must be capable to handle 20 simultaneous users. Throughput is the amount of data that is transferred over a period of time.

Classification: Non-Functional

Sources:

- NFR Framework catalogue

Responsibilities:

- the amount of complaint specification that is transferred over a period of time.
- the amount of login that is transferred over a period of time.
- the amount of query information that is transferred over a period of time.

Stakeholder-Priorities:

Stakeholder	Priority
Citizen	Very Important
SystemDeveloper	Very Important
SystemOwner	Important

Concerns-Contributions:

Concern	Contribution
Liability	+
ResponseTime	-

Required By:

Concern
QueryInformation
ComplaintSpecification

Name: Performance

Description: The system must be capable to handle 20 simultaneous users. The response time must not exceed 5 seconds.

Classification: Non-Functional

Sources:

- document (use cases)

Stakeholder-Priorities:

Stakeholder	Priority
SystemDeveloper	Very Important
SystemOwner	Very Important

Decomposition:

Type - and

Concern
ResponseTime
Throughput

Name: Confidentiality

Description: ensuring that information is accessible only to those authorized to have access.

Classification: Non-Functional

Sources:

- NFR Framework catalogue

Responsibilities:

- ensuring that complaint specification information is accessible to citizen.
- ensuring that information is accessible only to employees using a login data
- ensuring that query information is accessible to citizen.

Stakeholder-Priorities:

Stakeholder	Priority
SystemDeveloper	Medium
SystemOwner	Important

Required By:

Concern
QueryInformation
ComplaintSpecification
Login

Name: ErrorHandling**Description:** in case something is wrong, an error message should be show.**Classification:** Functional**Sources:**

- documents (use cases)

Responsibilities:

- display an error message "employee is invalid".
- display an error message "name or the current password is missing";
- display an error message "the password or the employee is not valid"
- display message "employee information was not provided";
- display message "information was not provided";

Stakeholder-Priorities:

Stakeholder	Priority
Employee	Very Important
SystemDeveloper	Very Important
SystemOwner	Medium

Required By:

Concern
Login
RegisterNewEmployee
UpdateEmployee
UpdateHealthUnit
ChangeLoggedEmployee

Matchpoints

Name: MP_QueryInformation**Owner:** QueryInformation**Rule:**

(Compatibility||Confidentiality)>>(Liability||Throughput||Usability||ResponseTime||QueryInformation)>>Security

Rule Visualization:**Associated Concerns:**

Concern

Concern
Compatibility
Confidentiality
Liability
ResponseTime
Security
Throughput
Usability

Name: MP_UpdateComplaint

Owner: UpdateComplaint

Rule: Login>>Updatecomplaint>>Integrity

Rule Visualization:

Associated Concerns:

Concern
Integrity
Login

Name: MP_UpdateEmployee

Owner: UpdateEmployee

Rule: (Login>>UpdateEmployee>>Integrity)[>ErrorHandling

Rule Visualization:

Associated Concerns:

Concern
ErrorHandling
Integrity
Login

Name: MP_ComplaintSpecification

Owner: ComplaintSpecification

Rule:

(Compatibility||Confidentiality)>>(Liability||Throughput||Usability||ResponseTime||ComplaintSpecification)>>Security

Rule Visualization:

Associated Concerns:

Concern
Compatibility
Confidentiality
Liability
ResponseTime
Security
Throughput
Usability

Name: MP_RegisterTables

Owner: RegisterTables

Rule: Login>>RegisterTables>>Integrity

Rule Visualization:

Associated Concerns:

Concern
Integrity
Login

Name: MP_RegisterNewEmployee

Owner: RegisterNewEmployee

Rule: (Login>>RegisterNewEmployee>>Integrity)[>ErrorHandling

Rule Visualization:

Associated Concerns:

Concern
ErrorHandling
Integrity
Login

Name: MP_ChangeLoggedEmployee

Owner: ChangeLoggedEmployee

Rule: (Login>>ChangeLoggedEmployee>>Integrity)[>ErrorHandling

Rule Visualization:

Associated Concerns:

Concern
ErrorHandling
Integrity
Login

Name: MP_Login

Owner: Login

Rule: ((Liability||Usability||ResponseTime||Login)>>Confidentiality)[>ErrorHandling

Rule Visualization:

Associated Concerns:

Concern
Confidentiality
ErrorHandling
Liability
ResponseTime
Usability

Name: MP_UpdateHealthUnit

Owner: UpdateHealthUnit

Rule: (Login>>UpdateHealthUnit>>Integrity)[>ErrorHandling

Rule Visualization:

Associated Concerns:

Concern
ErrorHandling
Integrity
Login

History

None.

Operators

Name	Symbol	Commutative
Enabling	>>	false
Disabling	[>	false
Pure Interleaving		true
Full Synchronization		true
Choice	[]	true

Visualizations:

Dependencies:

Contributions:

Decompositions: