

**DEPARTMENT OF COMPUTER SCIENCES**

**Advanced Web Development**

**THEME**: IEEE 830

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# **Introduction**

The aim is to develop a web page to help manage the reservations of ”Las Golondrinas” Farm. This website will show the activities, services and promotions offered by it. Also, a form will be implemented to complete the reservation of rooms, services and facilities. Finally the page will provide direct contact information with Las golondrinas.

## Purpose

The purpose is to document all functional and non-functional requirements of the reservation management system at Finca Las Golondrinas. Also, we recognize all those involved in this process, what their needs are and how to solve them.

## Scope

## The system will present necessary information to the users for the reservation of rooms or for the contracting of services. For the management of the reservation, a form will be presented requesting the necessary information to finalize the reservation. The system will manage two types of users: the administrator who will control the page and the client who interacts with the system.

## Involved personnel

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## Definitions, acronyms and abbreviations

**Requirement.-** It is the condition or capacity that a system, product, service or component must have to satisfy a contract, standard, specification, or other formally established documents.

**System.-** Set of interrelated elements that work as a whole.

## References

| **Reference** | **Title** | **Route** | **Date** | **Author** |
| --- | --- | --- | --- | --- |
| Specification of Requirements according to the IEEE 830 standard | IEEE Std. 830-1998 | [https://www.fdi.ucm.es/ professor / gmendez / docs / is0809 / ieee830.pdf](https://www.fdi.ucm.es/%20profesor/gmendez/docs/%20is0809/ieee830.pdf) | October 22, 2008 | www.ucm.es |

## Summary

The document has very important information since with it you will have one more guide to continue with the project. To carry out the project it is necessary to have requirements, otherwise it will not be known what is being done, so with the specification of requirements it will be clearer how to carry out the project.

The document is organized in a way that is easy for the other members of the team to understand, for this reason the document is divided into specific parts and each one is clearly detailed.

# **General description**

The web application development focuses on serving each one of the users that are interested in “Las Golondrinas” services, and it can be adapted for new needs. One of his strengths is being a responsive web, it is highly doubted that the web pages are not compatible with different browsers but good code habits will not worry about that issue. What the system is mainly looking for is to announce people promoting “Las Golondrinas” Farm & Lodging to visit, and you can make a reservation improving your user experience using technology and keeping harmony between colors and structure, as well as we improve our web page we assign an opinion box to tell us how was your experience.

## Product perspective

The developed web page by the entire work team is a web that requires the use of the internet as well as the use of a browser to be able to be used, it will depend completely on a hosting for its correct operation, this will allow several users to be able to enter it at the same time, which will allow to fulfill the objective which is to promote “Las Golondrinas” Farm & Lodging as well as increase the user experience bringing our service as developers.

## Product functionality

The web page must have a simple interface to be used therefore could be understood by any user of the web page, in addition to having a friendly navigation and an eye-catching design

The application must allow taking from An appointment from a client to schedule a date on the farm installations, receive the client's data as well as their e-mail or when they want to schedule it, once the client confirms the request, it will be registered in the database and create an automatic message sender to whatsapp with the necessary data recollected and communicate quickly as an assistant vendor. Administrators can receive data and could accept it and assign a visit time after which a confirmation of their request will be sent to the client.

Once the schedule order is done, the service must mark the dates as an occupied date and will not be able to set this date again.

## User Characteristics

| Type of user | Customer |
| --- | --- |
| Training | None |
| Abilities | None |
| Activities | Enter the web page and book a schedule. |

| Type of user | Administrator |
| --- | --- |
| Training | Features |
| Abilities | None |
| Activities | Review customer books, accept or reject them, assign visiting hours, manage data. |

## Restrictions

When we deploy the web application we could find some restrictions to deliver the system. One of them is the user traffic on the page, if there are a large number of requests in a short period of time, the web application or the hosting may suffer a drop. In addition to this, the system is restricted by a monthly or annual payment of a hosting to host the web application.

Because the system will be developed in a web application, the user's hardware will not be inconvenient as long as they have an internet connection and can use a browser, however, basic knowledge in computer science will be essential for a correct use of the page, however, In the development of the system, it must be prioritized that its use is intuitive and easy for any type of user who uses it.

Finally, an important restriction is needed for direct intervention in the process with confirmations, since the date is booked this will not be an available date.

## Assumptions and dependencies

The application, being developed for use on the Internet, will not be dependent on the computer's operating system, however each browser will depend on the version and its own add-ons to display fully or differently from what was developed. Local servers will be used, and it can be accessed via LAN, so if there is a technical problem or appears this affects it directly.

## Predictable evolution of the system

In future versions, the system will include the possibility of registering through your google or facebook account to speed up the registration process and make it easier for the client to book appointments. If we continue to refer to modifications we can say that it would be the implementation of new customer service options from the lodge company, as well as modifications and constant offers and discounts.

And finally, a change that would be made often would be a maintenance to the system, the same that will fix bugs that are damaging or slowing down the system.

# **Specific requirements**

## Common interface requirements

### User interfaces

The system It will have 2 main interfaces, one for the client and one for the administrator, the client interface will consist of a set of information windows about the farm, as well as a menu to navigate through it, on the other hand the administrator interface It will consist of a login and after which you will have an access page, as well as a menu so that you can access the different options of the system.

### Software interfaces

Any web browser whose latest version has been released in the last 10 years.

### Communication interfaces

Communication between the client and the server must be done using standard internet protocols, in this case via https.

| Requirement number | 1 | | |
| --- | --- | --- | --- |
| Requirement name | Tests on localhost to then load the system to a server | | |
| Guy | ☐ Requirement | ☐ Restriction | |
| Requirement source | Developer | | |
| Requirement priority | ☐ High / Essential | ☐ Medium / Desired | ☐ Low / Optional |

## Functional requirements

**Functional requirement # 1**

El sistema permitirá a los usuarios hacer una reserva mediante un formulario en la página web

| Requirement number | 1 | | |
| --- | --- | --- | --- |
| Requirement name |  | | |
| Guy | ☐ Requirement | ☐ Restriction | |
| Requirement source |  | | |
| Requirement priority | ☐ High / Essential | ☐ Medium | ☐ Low / Optional |

**Functional requirement #**

El sistema permitirá a un administrador consultar las reservas ingresadas en la página web y desplegadas en la misma.

| Requirement number |  | | |
| --- | --- | --- | --- |
| Requirement name |  | | |
| Guy | ☐ Requirement | ☐ Restriction | |
| Requirement source |  | | |
| Requirement priority | ☐ High / Essential | ☐ Medium | ☐ Low / Optional |

**Functional requirement #**

El sistema permitirá modificar las consultas realizadas desde el navegador web al administrador.

| Requirement number |  | | |
| --- | --- | --- | --- |
| Requirement name |  | | |
| Guy | ☐ Requirement | ☐ Restriction | |
| Requirement source |  | | |
| Requirement priority | ☐ High / Essential | ☐ Medium | ☐ Low / Optional |

**Functional requirement #**

El sistema deberá redireccionar al usuario que presione el botón de Whatsapp al sistema de mensajería.

| Requirement number |  | | |
| --- | --- | --- | --- |
| Requirement name |  | | |
| Guy | ☐ Requirement | ☐ Restriction | |
| Requirement source |  | | |
| Requirement priority | ☐ High / Essential | ☐ Medium | ☐ Low / Optional |

**Functional requirement #**

La pagina web debera tener servicio RESTFUL el cual implementara 4 procesos de uris

| Requirement number |  | | |
| --- | --- | --- | --- |
| Requirement name |  | | |
| Guy | ☐ Requirement | ☐ Restriction | |
| Requirement source |  | | |
| Requirement priority | ☐ High / Essential | ☐ Medium | ☐ Low / Optional |

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