

**FACULTAD DE INGENIERÍA**

CARRERA DE INGENIERÍA DE SISTEMAS COMPUTACIONALES

**SISTEMA DE ADMINISTRACIÓN HOTELERA**

Informe académico

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# INTRODUCCIÓN

1. **Identificación del problema**

Actualmente el problema que presenta el hotel, surge en el proceso de alquiler de habitaciones, ya que no cuenta con un sistema de administración y todo se realiza de forma manual, como el cobro por el servicio, el registro de habitaciones, la verificación de habitaciones disponibles y verificación de la cantidad de clientes que se hospedan durante un intervalo de tiempo. Este problema, si bien cumple con su objetivo que es la atención al cliente, demanda mucho tiempo, esfuerzo y malinterpretación de la información con respecto a los datos del cliente y su reserva.

1. **Planteamiento de la solución**Para poder solucionar este problema lo que el hotel necesita es un sistema a través del cual se pueda buscar hospedaje, gestar la reserva de éste y realizar su administración, para ello se empezará con un modelo o prototipo que debe tener estas funcionalidades básicas.
2. **Cómo implementar la solución**

Se va a crear una solución de software que será usada por el usuario de una manera local para mejorar la productividad de la empresa y sus trabajadores. Para esto tomamos en cuenta las necesidades del cliente, el proceso que se lleva durante el registro y el producto final esperado del sistema desarrollado.

1. **Justificación y limitaciones de la investigación**

Limitaciones:

•Tiempo: Tendremos todo este ciclo académico para desarrollar sistema.

•Espacio: Todo el proyecto será realizado mediante sistemas digitales.

•Recursos: Tendremos que tomar en cuenta las limitaciones para la adquisición de los aparatos electrónicos.

Justificación:

•Se justifica en base a los avances tecnológicos y en su implementación en las grandes, medianas y pequeñas empresas.

•Se justifica en base a la eficacia y productividad de los trabajadores.

•Se justifica en base a la experiencia y servicio brindado a los clientes.

1. **Ventajas de la solución**

Como ventaja principal tenemos la eficacia que se generará en el registro de nuevos clientes, se podrá visualizar desde un primer momento un cambio significativo en el tiempo requerido para ello.

1. **Desventajas de la solución**

Como desventaja principal tenemos la adquisición del material necesario para la implementación del sistema, otra de las desventajas seria el gasto en capacitaciones para el personal administrativo del lugar.

1. **Objetivo general**

Desarrollar un sistema de administración hotelera, que pueda cumplir las necesidades de la empresa, contando con la posibilidad de hacer las reservas de las habitaciones y realizar el cobro respectivo al cliente.

1. **Objetivos específicos**

* Implementar el registro del cliente donde se solicitará sus datos personales.
* Añadir en registro del cliente, la fecha de ingreso y salida del cliente.
* Permitir al administrador o recepcionista poder consultar sobre las habitaciones que fueron reservadas.

# MARCO TEÓRICO

1. **Marco teórico**

* Modelo de negocio: Alonso, Martínez y Segovia (2005) señalan que el modelo de negocio es necesario para poder entender los procesos de negocio de la empresa y así poder tener una descripción detallada de los requisitos del sistema.
* Proceso de software: “Un proceso de software es una secuencia de actividades que conducen a la elaboración de un producto de software.” (Sommerville, 2011, p. 9).
* Prototipos: “permiten a los usuarios ver que tan bien el sistema apoya a su trabajo.” (Sommerville, 2011, p. 45).
* Casos de uso: “un caso de uso identifica a los actores implicados en una interacción” (Sommerville, 2011, p. 107).
* Diagrama de casos de uso: “representa todas las interacciones que se describirán en los requerimientos del sistema.” (Sommerville, 2011, p. 107).
* Requerimientos: Alonso, Martínez y Segovia (2005) señalan que los requerimientos se reconocen a partir de las especificaciones del problema que va a mencionar el usuario.
* Diagramas de actividad: “Los diagramas de actividad intentan mostrar las actividades que incluyen un proceso de sistema, así como el flujo de control de una actividad a otra.” (Sommerville, 2011, p. 123).
* Proceso unificado: Alonso, Martínez y Segovia (2005) señalan que el proceso unificado modela el sistema como un conjunto de bloques interconectados y se implementan mediante componentes.
* Git hub: Es una plataforma de desarrollo inspirada en tu forma de trabajar. Desde el código abierto hasta el negocio, puede alojar y revisar código, administrar proyectos y crear software junto con 50 millones de desarrolladores.
* Lucidchart: Ofrece una interfaz intuitiva y cientos de plantillas que permiten que tus equipos comuniquen sistemas, procesos e ideas complejos con gráficos. Eleva tu perspectiva en todas las áreas de tu negocio para impulsar ventas, simplificar la gestión del personal, mapear tu infraestructura y más.

1. **Marco metodológico**

* Paso 1: Formar el equipo de trabajo.
* Paso 2: Identificar una empresa.
* Paso 3: Entrevistar al administrador del negocio.
* Paso 4: Modelar y especificar el proceso de negocio.
* Paso 5: Hacer el modelo de proceso de software.
* Paso 6: Hacer el modelo de casos de uso.
* Paso 7: Creación de prototipos.
* Paso 8: Hacer el diagrama de actividades con particiones.
* Paso 9: Avance de informe

# DESARROLLO DE LA INVESTIGACIÓN

1. **Implementación de la solución planteada**Captura de pantalla de un celular

   Descripción generada automáticamente

Ilustración 1: Proceso de Negocio

J

Tabla : Proceso de Negocio

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Procesos** | **Entradas** | **Actividades** | **Salidas** | **Valor para el cliente** |
| Sistema de Administración hotelera | Necesidad del cliente para poder hospedarse en un ambiente | * Registro de cliente. * Consulta de precio de habitación. * Selección de habitación para el cliente. * Verificar que la habitación se encuentre vacía y limpia. * Realización del pago del cliente al hotel. * Registrar salida del cliente del hotel. | Registro de salida del cliente | Brindar un servicio de calidad al cliente cumpliendo todas las medidas de bioseguridad |

Imagen que contiene texto

Descripción generada automáticamente

Ilustración 2: Proceso de Software

Imagen que contiene texto, mapa

Descripción generada automáticamente

Ilustración 3: Diagrama de Casos de uso

![Captura de pantalla de un celular

Descripción generada automáticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4REGRXhpZgAATU0AKgAAAAgABAE7AAIAAAAUAAAISodpAAQAAAABAAAIXpydAAEAAAAoAAAQ1uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAE1hdXJpY2lvIFZpbGxhbnVldmEAAAWQAwACAAAAFAAAEKyQBAACAAAAFAAAEMCSkQACAAAAAzAyAACSkgACAAAAAzAyAADqHAAHAAAIDAAACKAAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Ilustración 4: Prototipo

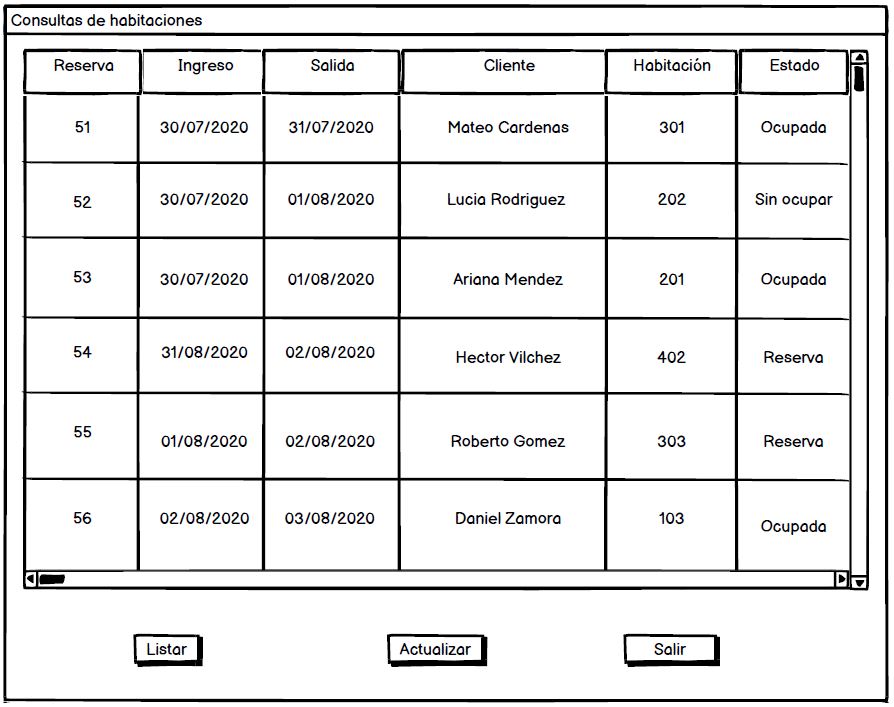
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Ilustración 5: Prototipo

Imagen que contiene texto, mapa

Descripción generada automáticamente

Ilustración 6: Diagrama de actividades con particiones o calles

# CONCLUSIONES Y RECOMENDACIONES

## Referencias Bibliográficas

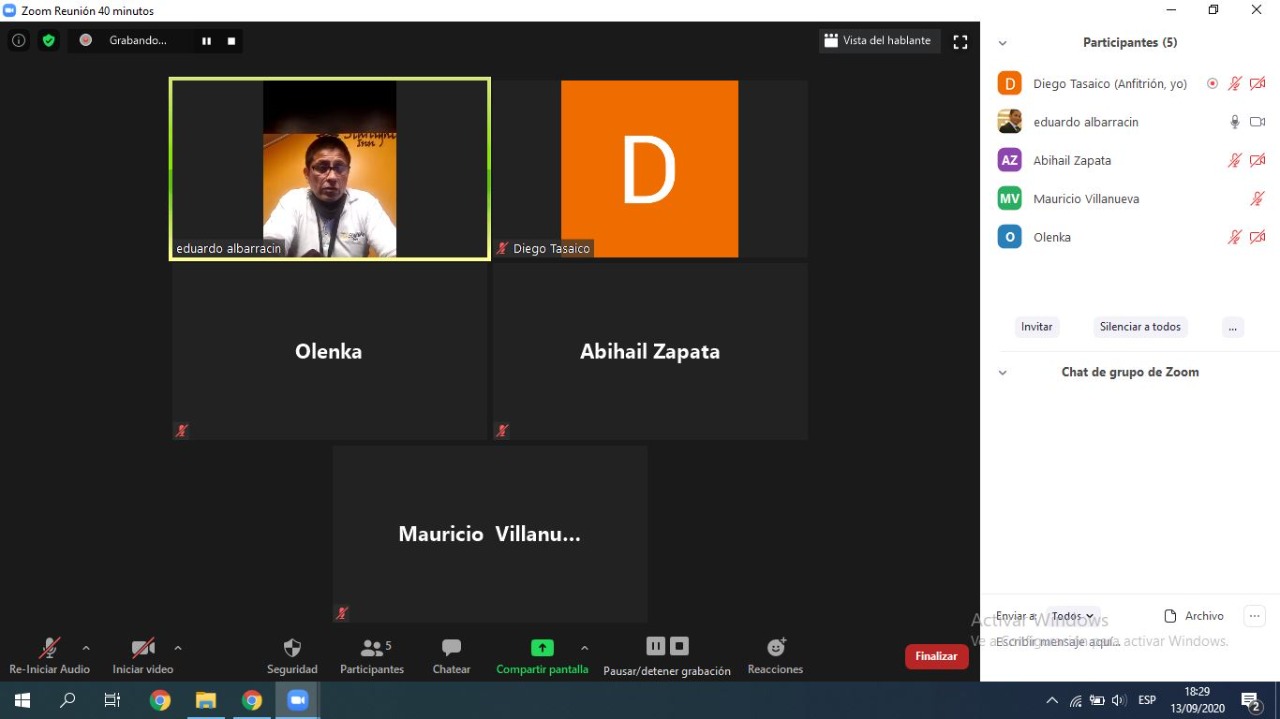
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1. **Anexos**

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