

**Catedrático**

**Ing. Louis Zelaya**

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Descripción generada automáticamente con confianza 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P8AAAD/AAAA/wAAAP8AAAD/AAAA/wAAAP8AAAD/AAAAVQAAAAAAAAAAAAAADQAAAFUAAADGAAAA8QAAAP8AAAD/AAAA8QAAAMYAAABVAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANAAAAfwAAAOEAAAD/AAAA/wAAAP8AAADxAAAAqQAAACoAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**Tarea**

**Proyecto**

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# Introducción

El presente informe muestra la forma en que se creo la base de datos para el uso dentro de la IDE de NeatBeans, también tomaremos los puntos mas importantes para la creación del proyecto, mencionando pasos y posibles soluciones a problemas encontrados al momento de ejecutar el programa.

# Base de datos

* Interfaz de usuario gráfica, Texto, Aplicación

  El contenido generado por IA puede ser incorrecto.Se creo una base de datos la cual se llama hotel, la base de datos es pequeña, pero cumple con los estándares necesarios para cumplir con el proyecto. A continuación, se muestra el proceso para la creación de la base de datos, incluyendo, tablas e INSERTS.

Interfaz de usuario gráfica, Texto, Aplicación

El contenido generado por IA puede ser incorrecto.

* Estos son algunos de los inserts utilizados, los cuales me sirvieron de prueba en el proyecto de NEATBEANS.Texto, Aplicación

  El contenido generado por IA puede ser incorrecto.

# Proyecto NeatBeans

El proyecto consiste en una aplicación la cual le permitirá al usuario entrar mediante un usuario, luego se le desplegara un menú principal, que dentro, también tendrá un submenú, que le mostrara las distintas opciones que tendrá el usuario.

Dentro del podrá, registrar nuevos huéspedes, buscarlos y modificarlos, también en otra sección, podrá ver las habitaciones disponibles, y realizar las respectivas reservaciones

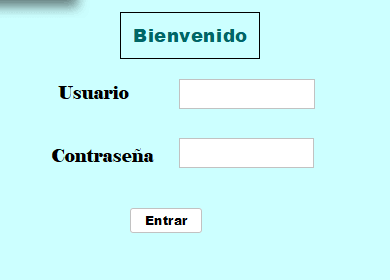
A continuación, mostrare de manera técnica como se creó esta aplicación.

* El Proyecto se llama tarea\_2P, dentro de ella esta subdividido por carpetas, para que el administrador o quien desee revisarlo tenga mayor facilidad para entenderlo

Imagen que contiene Texto

El contenido generado por IA puede ser incorrecto.

* Así se ve la clase Login, su función mantener la seguridad del proyecto, asegurarse que no cualquier persona pueda entrar al proyecto



## Código de la clase Login

* Dentro de ella se mostrará los datos más importantes y relevantes de la clase login, en la siguiente imagen podemos observar la función del botón “Entrar”,
  + comenzamos creado el usuario y contraseña ya que sin ella no podríamos entrar, cabe recalcar que aquí también podrías crear mas usuarios y llamarlos por métodos, pero para muestra de ejemplo se creó uno.
  + Luego con una condición le damos los valores a cada TEXTFIELD, para que se pueda ingresar correctamente.
  + En caso de que la condición sea falsa nos mostrara un error en pantalla.

## Código de clase menú

* Esta clase me toma todas las demás clases creadas, aquí es donde al solo hacer un clic me manda directo a la siguiente clase, se puede observar que contiene un menú y un submenú, para hacer un poco más interactivo el programa.

Interfaz de usuario gráfica, Texto

El contenido generado por IA puede ser incorrecto.

* Dentro de esta clase menú tenemos las importaciones de las demás clases, esta nos ayuda a poder ejecutar procedimientos dentro de las otras clases.

Texto, Carta

El contenido generado por IA puede ser incorrecto.

* Interfaz de usuario gráfica, Texto, Aplicación

  El contenido generado por IA puede ser incorrecto.De esta manera mandamos a llamar las clases que deseamos que se muestren en el programa

## Código clase Habitaciones

* La interfaz de esta clase le servirá de ayuda al usuario para saber la información de las habitaciones.

Interfaz de usuario gráfica

El contenido generado por IA puede ser incorrecto.

* Nos manda a llamar la información de un registro, mediante una consulta SELECT de SQL, el uso del try catch, nos ayuda a mostrar los errores en caso de que existan

Interfaz de usuario gráfica, Texto, Aplicación, Correo electrónico

El contenido generado por IA puede ser incorrecto.

## Código Reservaciones

* Aquí podrás tener dos opciones, verificar las reservaciones de los huéspedes y también podrás crear una nueva reservación, para este caso, se utilizo dos valores para el campo de N° habitación, ya que está en buscar nos mostrara si es doble o personal… pero al registrar nos servirá para buscar el N° ID de la habitación correspondiente.

Interfaz de usuario gráfica

El contenido generado por IA puede ser incorrecto.

* El botón buscar nos muestra nos busca mediante una consulta SELECT, pero que también contiene una UNION de dos tablas ya que necesitas unir dos tablas para poder mostrar su reporte especifico.

Interfaz de usuario gráfica, Texto, Aplicación

El contenido generado por IA puede ser incorrecto.

Interfaz de usuario gráfica, Texto, Aplicación

El contenido generado por IA puede ser incorrecto.

* El botón Reservar nos hace un INSERT en la base de datos para poder almacenar nueva información a la tabla, también hace uso de un TRY CATCH para mostrar errores de en caso de que los haya.

Texto

El contenido generado por IA puede ser incorrecto.

## Código huéspedes

Aquí se almacena la información de los huéspedes dentro de este paquete se podrá ver la información de cada huésped, podrá insertar uno nuevo y también lo podrá modificar, en caso de que se haya equivocado con algún dato en específico, el paquete también contiene una clase de eliminar huésped, que este lo que hace es básicamente eliminar el registro ya existente.

* huésped Insertar

Interfaz de usuario gráfica, Aplicación

El contenido generado por IA puede ser incorrecto.

* Aquí partimos de una consulta de inserción, para poder registrar a los nuevos huéspedes.

Interfaz de usuario gráfica, Texto

El contenido generado por IA puede ser incorrecto.

Interfaz de usuario gráfica, Texto

El contenido generado por IA puede ser incorrecto.

* huésped Modificar

Interfaz de usuario gráfica

El contenido generado por IA puede ser incorrecto.

Se tomo a consideración crear 3 botones para volverla mas interactiva para el usuario, tenemos un botón de Buscar que, básicamente me buscara mediante el ID del huésped su información, teniendo esta información, podemos revisar y tomar una decisión, si queremos modificarla o no, si se desea hacer así, tendrá que cambiar los valores que desea modificar y solo presionar el botón de Modificar, si desea seguir modificando pero de otro huésped tendrá la opción de Vaciar todas las casillas y empezar de nuevo

* Se muestra cómo se creó el código para que el botón de modificar se pudiera utilizar, esto fue gracias a un action performand, lo que hace es que le da un valor o método al botón para que ejecute una acción al ser presionado.

Interfaz de usuario gráfica, Texto, Aplicación

El contenido generado por IA puede ser incorrecto.

* Para vaciar las casillas solo creamos un método, mediante el action performand con valores vacíos, así de esta manera al presionarlo nos devolverá todas las casillas sin ningún registro.

Interfaz de usuario gráfica, Texto, Aplicación

El contenido generado por IA puede ser incorrecto.

* Gráfico

  El contenido generado por IA puede ser incorrecto.huésped Eliminar

Mediante esta clase nos permitirá hacer acciones un poco similares a las de el modificar huésped, con la única diferencia que este eliminará un registro a la base de datos.

Interfaz de usuario gráfica, Texto, Aplicación

El contenido generado por IA puede ser incorrecto.

# Conclusiones

El desarrollo de este proyecto representó un gran desafío, especialmente en la conexión con la base de datos y en la gestión de registros (visualización, eliminación y actualización). Sin embargo, a lo largo del proceso, se lograrán identificar y solucionar estos inconvenientes, permitiendo el correcto funcionamiento del sistema.

El uso de NetBeans resultó ser una herramienta clave, ya que facilitó la creación de interfaces gráficas de manera intuitiva y eficiente. Esto contribuyó significativamente a mejorar la experiencia visual y la usabilidad del sistema para el usuario final.

En conclusión, el proyecto se llevó a cabo con éxito, superando los desafíos técnicos y optimizando su funcionalidad para cumplir con los objetivos propuestos.