

**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, provocando así pérdida de tiempo y malinterpretación de la información con respecto a los datos del cliente y su reserva.

1. **Planteamiento de la solución**
2. **Cómo implementar la solución**
3. **Justificación y limitaciones de la investigación**
4. **Ventajas de la solución**
5. **Desventajas de la solución**
6. **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**
2. **Marco metodológico**

# DESARROLLO DE LA INVESTIGACIÓN

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

   Descripción generada automáticamente

Ilustración 1: Proceso de Negocio

Tabla 1: 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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CCNCscEVUtHwJDNicoIJChYXGBkaJSYnKCkqNDU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6g4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2drh4uPk5ebn6Onq8fLz9PX29/j5+v/EAB8BAAMBAQEBAQEBAQEAAAAAAAABAgMEBQYHCAkKC//EALURAAIBAgQEAwQHBQQEAAECdwABAgMRBAUhMQYSQVEHYXETIjKBCBRCkaGxwQkjM1LwFWJy0QoWJDThJfEXGBkaJicoKSo1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoKDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uLj5OXm5+jp6vLz9PX29/j5+v/aAAwDAQACEQMRAD8A9J+NnxJu/hv4RtrrSYYpdRvbgQw+epZEUDczEAjPGAB757V4/F8XfjhqlvDead4buXtZkDRyW2hyvHIDyGDYOfwOK7D9q+3VvAui3J+9HqXlj6NExP8A6CK9H+FbpD8HfDMkjBUTS4mZmPAG3NAHhf8Aws749/8AQsaj/wCE/L/8TR/ws749/wDQsaj/AOE/L/8AE17JD8d/hrPfC1TxTCJCxXdJbzImR/tsgXHvnFd3Z3ttqNnFd2FxFc20yh45oXDo6nuCOCKOlw8j5g/4Wd8e/wDoWNR/8J+X/wCJo/4Wd8e/+hY1H/wn5f8A4mvqWigD5a/4Wd8e/wDoWNR/8J+X/wCJo/4Wd8e/+hY1H/wn5f8A4mvpfVNa0/RVtTqdx5Au7lLWH5GbfK/3V4Bxn1PFXqAPlr/hZ3x7/wChY1H/AMJ+X/4mj/hZ3x7/AOhY1H/wn5f/AImvqCS6t4riKCWeNJps+VGzgNJgZOB1OO+KloA+Wv8AhZ3x7/6FjUf/AAn5f/iaP+FnfHv/AKFjUf8Awn5f/ia+paKAPlr/AIWd8e/+hY1H/wAJ+X/4mj/hZ3x7/wChY1H/AMJ+X/4mvqWqOla1p+uQzzaVcrcx29xJbSsoI2yIcMvI7H8KAPmSX4lfH6QAJ4f1WLHdPDznP5oai/4WJ+0D/wBAfWf/AAnT/wDGq+rqKAPlH/hYn7QP/QH1n/wnT/8AGqP+FiftA/8AQH1n/wAJ0/8Axqvq6sOfxnoFtp+p30uoqLfSbj7Neusbt5Mny/LgDJ+8vTPWgD5t/wCFiftA/wDQH1n/AMJ0/wDxqnxeP/2g5SQmkasMf39AC/zjr6qVgyhhyCMiloA+WP8AhOP2hv8AoE6l/wCCVP8A4ij/AITj9ob/AKBOpf8AglT/AOIr6nqJLq3kupLZJ42uIlVpIg4LIGzgkdQDg49cGgD5d/4Tj9ob/oE6l/4JU/8AiKP+E4/aG/6BOpf+CVP/AIivqeigD5Y/4Tj9ob/oE6l/4JU/+Io/4Tj9ob/oE6l/4JU/+Ir6nooA+WP+E4/aG/6BOpf+CVP/AIilHjf9oY/8wnUv/BKn/wARX1NRQB8w/wDCU/tGf9Ay6/8ABbB/hR/wlP7Rn/QMuv8AwWwf4V9PUUAfMP8AwlP7Rn/QMuv/AAWwf4Uf8JT+0Z/0DLr/AMFsH+FfT1FAHzD/AMJT+0Z/0DLr/wAFsH+FH/CU/tGf9Ay6/wDBbB/hX09RQB8w/wDCU/tGf9Ay6/8ABbB/hR/wlP7Rn/QMuv8AwWwf4V9PUUAfMP8AwlP7Rn/QMuv/AAWwf4UHxV+0WASdMu+PTTYT/wCy19PUUAfLH/CcftDf9AnUv/BKn/xFH/CcftDf9AnUv/BKn/xFfU9FAHyx/wAJx+0N/wBAnUv/AASp/wDEUf8ACcftDf8AQJ1L/wAEqf8AxFfU9FAHyx/wnH7Q3/QJ1L/wSp/8RR/wnH7Q3/QJ1L/wSp/8RX1PRQB8tR+Ov2hUcM2jajIB/C2irg/kgNB+Jvx8ViD4Z1Hg448PyH/2WvqWigD5a/4Wd8e/+hY1H/wn5f8A4mj/AIWd8e/+hY1H/wAJ+X/4mvqWigD5a/4Wd8e/+hY1H/wn5f8A4mj/AIWd8e/+hY1H/wAJ+X/4mvqWigD5a/4Wd8e/+hY1H/wn5f8A4mj/AIWd8e/+hY1H/wAJ+X/4mvqWigD5a/4Wd8e/+hY1H/wn5f8A4mnJ8UPj0jhm8K6g4HVW8Py4P5KDX1HRQB8x/wDC2fjr/wBCTc/+CG5/xo/4Wz8df+hJuf8AwQ3P+NfTlFAHzH/wtn46/wDQk3P/AIIbn/Gj/hbPx1/6Em5/8ENz/jX05RQB8x/8LZ+Ov/Qk3P8A4Ibn/Gj/AIWz8df+hJuf/BDc/wCNfTlFAHzH/wALZ+Ov/Qk3P/ghuf8AGj/hbPx1/wChJuf/AAQ3P+NfTlFAHzKnxb+OiuGbwNO4B5VtBucH8jVj/hcnxv8A+icf+UO9/wDi6+kqKAPm7/hcnxv/AOicf+UO9/8Ai6n/AOFr/HT/AKJ3B/4Krr/47X0VRQB86/8AC1/jp/0TuD/wVXX/AMdo/wCFr/HT/oncH/gquv8A47X0VRQB88xfFL47TMVT4eWoIGfn024UfmZRUv8Awsn49f8ARPrD/wAA5v8A49X0DRQB8/f8LJ+PX/RPrD/wDm/+PUq/En48Bhu+HtiVzyBaTAkf9/q+gKKAPBv+Fl/G7/om9v8A9+ZP/jlQy/FX41Qvtf4aoTjPyWc7D8w5r3+igD59/wCFtfGj/omn/khcf/FVFL8YvjLCQH+GUhz/AHNMum/ka+h6KAPnX/hc/wAY/wDomM//AIKbz/Gj/hc/xj/6JjP/AOCm8/xr6KooA+df+Fz/ABj/AOiYz/8AgpvP8aP+Fz/GP/omM/8A4Kbz/GvoqigD52X4z/GLcN3wxuCM8gaVeD+tWP8AhdXxW/6JTf8A/gBdf/E19A0UAfP3/C6vit/0Sm//APAC6/8AiaP+F1fFb/olN/8A+AF1/wDE19A0UAeAJ8Z/ivI4VfhVegn+9ZXKj8ytTf8AC3vi1/0Sy4/78T/4V7zRQB4HL8ZvipaIZ7v4XXC28YLynyJxhQMk5wcflXd/CH4n/wDCz9Cvr2bT00+4s7kRNCkpkBUqCrZIHU7hj2r0Gvm79li5K+IPGFoXJDGGQKT6PIM/+PCgDe/at/5JxpP/AGFl/wDRMld74I/5IVon/YBi/wDRIrzz9q+4C+BtEt+MyakZB/wGNh/7NXpHw9tzd/Bfw9bhtpm0WBAxGcZiAzUTTcGkVF2kmzzPwX8TbXSPhHpNjd/D7xTqkVpZgNOukh7STrlhISflwTzitbw74hT4afBca40dmTreoNPpunR3Si2tvPbKReYcBVUAlj0HNej+BvD0/hfwHpOhXssc81lbCGR4s7GPfGecVyU/whW88CXnhq6u4BHDq0moaQ5hEqWwLblR42GGXLOCvQg1rN+9K3X8r6/15GcFaMU+n52dv68zM0n4ranYeItKtPEeueD9atdVnS2z4fvN01nM2doKFm3x5wN3BBPPard14n+IvivxDrC/DtfD9vpWj3TWTyaoZDJczKAXwFHABOOceufRvhn4b6/a+JrO81vSPh/ZWllJ5gfR9FxcTkAgZZwPLIOGyvcVRJ1PQ/F3imPwD4n8P2du955+q2euwyI1lIyAtLEVI3gjnn5cg81Ltb5P9LX/AB/C5Sv+X6/8D8STT/iL4lufh74W1O9e3h1K+8SLpt8scQ27POdWQA5xwoGQfxqp4r8feIrL4gapYt4t0/wqlkQNO0/VNNLQamuwEu1ycbRuOMKe3TrTvAvgvUde+EvhYm7QSW+v/wBrvLMhXz4hM5yAO7Ahh25610+qeBvFb3GtW+j+JbEaVq8zTNDqdi11JbFlAYRkyAbeMgEYGaqV0/O7/KP637j0/r1l+ltvvOa8Rf8ACSa38VPhxdjUodHkubSeY28USXSxMEVpV37sOHUhQR06jNa9tf8AjnxN8R/EumaV4ks9I0rRby3Cg6cs8sgaJWaPJIAU888tk8YFaF38M7iz07wr/wAIvq62uoeGYmht572DzkmjdNrhlDLjoCCDx0rZ8MeF7vRPFfifVrqeGVNZuIZYkjBygSIIc59wcYzxT0vpsr/mrfgQ72Xnb8mcrHeePvG19qup+FfElpoWm6bey2drZTack/21ojhmkcnKAsCBt5xXZeBfEr+LfBdhrE8At7iZWSeJTlUkRijgH03Kce1c1e/D7xLaapqx8G+LE0jTNYlM9xbS2Qma3lb/AFjwtkY3dcEHB5rsvDug2fhjw7ZaNpoYW1nGI1LnLN3LE9ySST9amPw/d9/X+vyKl8X3/d0OK1TUPF3jHxnq2jeDvEMHhyy0Mxx3F2bBLqS4mdd2wK/CqoI5HOa5Lwj40l+H/wAL9eutU+z3eqDxNc2aZlEMU1w7DLFm4RByx9AK7XW/CXi3TvFl9rvw91DSYG1ZY11C21WKRkDIu0SxlOd2MDB4OKxrX4N3V18P9Q0XxFqlrd6nNrD6tBerbBoxKcYLxNwwPzAr0wamO3y/VX/C43Zv5/o/1sQaT8VtTsPEWlWniPXPB+tWuqzpbZ8P3m6azmbO0FCzb484G7ggnntXpnibXYPDHhfUdbu1Z4rG3eZkXq+Bwo+pwK888M/DfX7XxNZ3mt6R8P7K0spPMD6PouLicgEDLOB5ZBw2V7ivRfEWh23iXw3f6LfFhb30DQuydVyOo9x1py+DTcUfj12OO8MxfEx7zTtZ1jVNLu7DUdr3OkLbeUbCNlyDHKMmRhxkN+Brk5Ne1Dwp4a+KOpaPKsd5ba+HjkZAwG8RA8HjoTXRQeDfiFqFxpumeJfEWkyaHptxDOLiygljvLzyiCqyc7FBI5Kk5xS6r8MdS1Dwx4105b61E/iHU1vIJG3bY0Hl4VuOvyHpntVac11t+l4/8EI9Obur/c/+AM8Z/Ey6sPFk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Ilustración 4: Prototipo

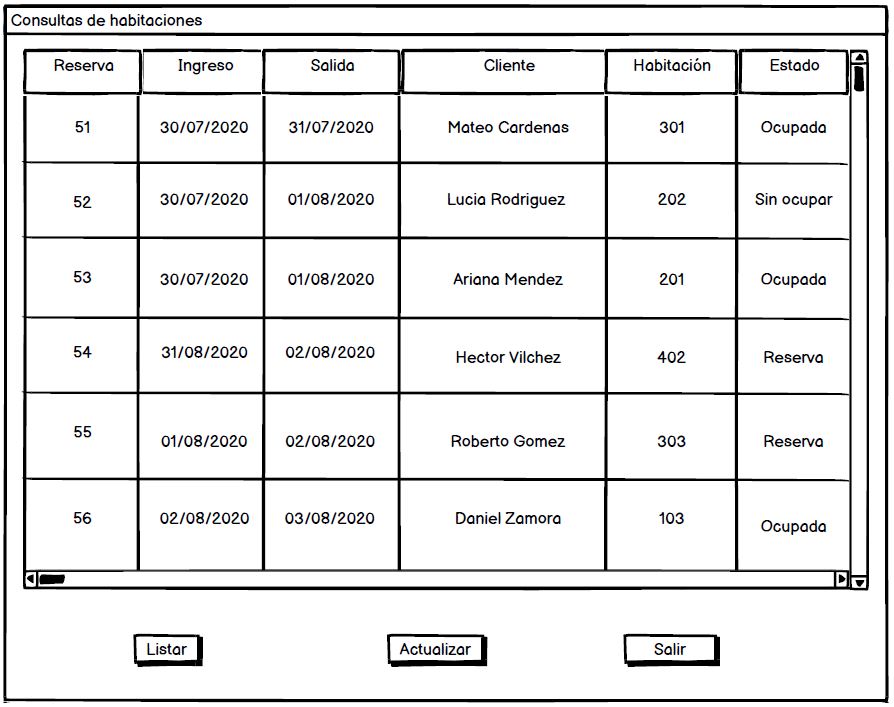
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Ilustración 5: Prototipo

Imagen que contiene texto, mapa

Descripción generada automáticamente

Ilustración 6: Diagrama de actividades con particiones o calles

# CONCLUSIONES Y RECOMENDACIONES

## Referencias Bibliográficas

**No hay ninguna fuente en el documento actual.**

1. **Anexos**