

Facultad de Ingeniería de Sistemas EPE

Desarrollo de una aplicación móvil para un gimnasio

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**Grupo**:

N°5

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**Curso:**

Desarrollo para Plataformas Móviles

**Sección:**

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1. **Tema Central del Caso Real**

Desarrollo de una aplicación móvil para un Gimnasio.

**1.1. Introducción**

Debido a la coyuntura actual nuestro entorno viene adaptándose para poder brindar los mismos servicios, pero con las medidas adecuadas, por ello se desarrollará esta app. De esta manera se podrá tener el control, gestión y organización de la información, influyendo positivamente en la toma de decisiones y las proyecciones de escenarios futuros, como la implementación de nuevos productos y/o servicios.

El uso de aplicaciones móviles y redes sociales es una gran ventaja competitiva, es importante que la mayor cantidad de gente posible conozca lo que ofrecemos y apueste por nosotros, lo cual, con el tiempo, se verá reflejado de forma tangible no solo económicamente, sino en la imagen de nuestro negocio. El Gimnasio Guadalupe quien tiene como nombre comercial “Gym Guadalupe” se encuentra ubicado en Villa el Salvador cerca a la Iglesia Guadalupe, tiene una presencia en el mercado de 5 años, brinda los servicios de máquinas y aeróbicos con todas las medidas sanitarias requeridas por el ministerio de la salud. La dueña del Gimnasio, quien es la administradora, nos indicó que ha tenido algunos problemas con la gestión de sus procesos básicos. Los principales problemas reportados son:

• Inadecuada gestión de los socios del gimnasio, actualmente se tiene un registro manual de los clientes en el gimnasio por medio de un libro y entrega de carnets.

• Falta de acceso a la información actualizada del estado de membresía de los socios, lo cual ocasiona que no se pueda generar una respuesta rápida ante la solicitud del estado de actividad o inactividad del socio del gimnasio.

• Falta de acceso a la información actualizada de los ingresos por concepto de membresía y/o "visitas" al gimnasio de los socios, ello conlleva a no manejar los recursos económicos del gimnasio para la mejor toma de decisiones.

• Inadecuado control de asistencia de los socios y trabajadores del gimnasio.

Analizando dicha problemática, se vio la necesidad de implementar una app para realizar todo consulta o solicitud desde casa, que permitirá que todas las personas interesadas puedan conocer más sobre la empresa, sus servicios y ofertas brindadas. Asimismo, debe permitir la gestión de las membresías y el control de la asistencia del personal y socios.

Los socios y trabajadores podrán loguearse dentro del app, cada uno con un perfil de usuario personalizado.

El sistema debe ser ágil, fácil de usar y adaptable a cualquier tamaño de pantalla y/o dispositivo.

**1.2. Objetivo**

Desarrollar una aplicación móvil.

**1.3. Beneficio del desarrollo de la App Móvil**

La solución que se va a desarrollar dentro de la empresa permitirá un crecimiento tecnológico, asimismo generará un impacto positivo para los clientes, trabajadores y administradores.

1. **Historias de Usuario**

**Historia de Usuario: Vistas Usuario**

**HU01**. **Visualización de Aplicación Móvil**: Para todo usuario registrado y público en general, a través de la aplicación móvil descargada del Play Store, podrá visualizar toda la información publicitaria del Gimnasio y la opción de acceso al sistema (Login y Registrarse).

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| **Cuando:**  Los usuarios registrados y el público en general Ingresan a la aplicación móvil del Gimnasio.  **Donde:**  Desde cualquier dispositivo Android. | **Espero:**   * Visualizar la información del gimnasio, por ejemplo: Logo, imágenes, opciones con datos de Quienes Somos (Informacion de la empresa, Misión, Visión), Servicios (Tipos de Membresías), Promociones, Contáctenos. * Visualizar opción de acceso (Iniciar Sesión) * Validar los datos ingresados, debe visualizarse un mensaje de error si no se puede iniciar sesión. |

**HU02.** **Administrar Datos personales de Socio:** Luego de haber iniciado sesión, como socio debo poder consultar y editar información autorizada en mi perfil de usuario.

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| **Cuando:**  *Ingreso como Socio:*   * Puedo actualizar: Fecha de nacimiento, contraseña, email, sexo, dirección. * Puedo visualizar mis datos registrados * Puedo Editar mis datos autorizados en mi perfil de usuario.   *Donde:*   * Son datos requeridos: DNI, apellido paterno, materno, nombres, teléfono y email para el registro. | **Espero:**   * Confirmación del Registro OK. * Mensaje de error si no se ingresan los datos requeridos. * Mensaje de error si ya existe el documento de identidad. * Validación de los tipos de datos ingresados, mostrando mensajes de advertencia si son incorrectos. |

**HU03.** **Registrar Pago de Membresía**: Como socio después de haberme logueado, debería poder realizar el pago de la membresía para poder afiliarme a un plan elegido.

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| **Cuando:**   * Debe aparecer la fecha actual del sistema, datos del socio, tipo de documento (Boleta o Factura), RUC, membresía que voy a adquirir, monto de pago.   **Donde:**   * Son datos requeridos: la fecha, datos del socio, tipo de documento (Boleta o Factura), membresía que voy a adquirir, monto de pago para el registro. | **Espero:**   * Confirmación de Registro Generado OK. * Mensaje de error si no se ingresan los datos requeridos. * Mensaje de error si el tipo de documento de pago es factura y no se ingresa el RUC. * Validación de los tipos de datos ingresados, mostrando mensajes de advertencia si son incorrectos. |

**HU04.** **Consultar Estado Membresía**: Como Socio, luego de haber iniciado sesión debo poder consultar el estado de mi membresía.

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| **Cuando:**  *Ingreso como Socio:*   * Visualizar la información de mi Membresía. | **Espero:**   * Confirmación de la consulta generada OK. * Visualizar el tipo de membresía vigente. * Visualizar cantidad de reservas realizadas y el tiempo faltante para el vencimiento de la membresía. * Mensaje de error si no se genera la consulta. |

**HU05.** **Registrar Reserva de horario:** Como Socio del Gimnasio después de haber accedido con mi clave al sistema, debo poder registrar mi reserva el rango de horario al que asistiré.

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| **Cuando:**   * Registro mi reserva, debe aparecer la fecha y hora, rango de horario y un botón para marcar.   **Donde:**   * El socio puede consultar la asistencia en un rango de tiempo. | **Espero:**   * Se deben mostrar los rangos de horarios disponibles. * Confirmación de la marcación Ok. * Mensaje de Advertencia, si se quiere salir de la opción sin haber marcado. * No debe permitir marcar más de dos veces en el día. |

**HU06.** **Consultar Objetivos**: Como socio del Gimnasio, luego de haberme logueado deseo consultar el mi avance de objetivos como, por ejemplo: (Peso, Musculo, grasa corporal, circulo abdominal).

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| **Cuando:**  *Ingreso como Socio:*   * Visualizar la información de mis objetivos. | **Espero:**   * Visualizar mis datos actualizados de objetivos vs última medición. * Mensaje de error si no se genera la consulta. |

**Historia de Usuario: Vistas Administrador**

**HU01**. **Visualización de Aplicación Móvil**: Para todo usuario con perfil administrador, a través de la aplicación móvil descargada del Play Store podrá visualizar las opciones que le permitirá realizar mantenimiento, registro y consultas.

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| **Cuando:**  Los usuarios administradores ingresan a la aplicación móvil del Gimnasio.  **Donde:**  Desde cualquier dispositivo Android. | **Espero:**   * Visualizar opción de acceso (Iniciar Sesión) * Validar los datos ingresados, debe visualizarse un mensaje de error si no se puede iniciar sesión. * Visualizar las opciones de Mantenimientos y registro, por ejemplo: Clases, Membresías, Promociones |

**HU02.** **Administrar la información de membresías**: Como Administrador del Gimnasio, luego de haber iniciado sesión, deseo poder registrar membresías. Así mismo, que pueda consultar y editar posteriormente los datos registrados.

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| **Cuando:**  *Ingreso Administrador del Gimnasio:*   * Registro los tipos de membresía debo indicar: nombre, detalle, monto y frecuencia. * Consultar la información de todas las membresías generadas y activas.   **Dónde:**   * Todos los datos son requeridos para el registro. | **Espero:**  *Como**Administrador del Gimnasio:*   * Confirmación del registro OK. * Mensaje de error si no se ingresan los datos requeridos. * Mensaje de error si ya existe una membresía con ese nombre, en el mismo periodo, con igual número de frecuencias. * Validación de los tipos de datos ingresados, mostrando mensajes de advertencia si son incorrectos. |

**HU02**. **Consultar Membresías Vendidas:** Como Administrador del Gimnasio, deseo consultar

todas las membresías vendidas durante el día y el mes.

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| **Cuando:**  *Ingreso Administrador del Gimnasio:*   * Para consultar debo indicar: la fecha de inicio y fecha de fin. * El sistema debe permitir seleccionar una fecha en un calendario, o permitir el ingreso en formato fecha. | **Espero:**   * Validación en los rangos de fechas ingresados (la fecha fin no debe ser menor a la fecha inicio) * Un Listado de Membresías Vendidas, donde debe aparecer el total recaudado por cada tipo de membresía. |

**HU03.** **Administrar Registro horario personal**: Como Administrador del Gimnasio, luego de haber ingresado a la App, deseo poder registrar el horario de mi personal a cargo. Así mismo, que pueda consultar y editar posteriormente los datos registrados.

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| **Cuando:**   * Registro los datos del personal debo indicar: nombres, apellidos paterno, materno, sexo, tipo de documento, número del documento de identidad, cargo, correo, fecha de nacimiento, dirección y teléfono.   **Donde:**   * Son datos requeridos: nombres, apellido paterno, materno, sexo, numero de documento y correo electrónico para el registro. | **Espero:**   * Confirmación del registro OK. * Mensaje de error si no se ingresan los datos requeridos. * Mensaje de error si ya existe el documento de identidad y el correo, estos deben ser únicos. * Validación de los tipos de datos ingresados, mostrando mensajes de advertencia si son incorrectos. |

**Historia de Usuario: Vistas Personal**

**HU01**. **Visualización de Aplicación Móvil**: Para todo usuario con perfil Personal, a través de la aplicación móvil descargada del Play Store podrá visualizar las opciones que le permitirá realizar consultas.

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| **Cuando:**  Los usuarios Personal Ingresan a la aplicación móvil del Gimnasio.  **Donde:**  Desde cualquier dispositivo Android. | **Espero:**   * Visualizar opción de acceso (Iniciar Sesión) * Validar los datos ingresados, debe visualizarse un mensaje de error si no se puede iniciar sesión. * Visualizar las opciones de Beneficios colaborador, Registro de asistencias y Consulta de Horarios. |

**HU02.** **Registrar Asistencia:** Como Personal del Gimnasio, después de haber accedido con mi clave a la App, debo poder registrar mi asistencia tanto de entrada como de Salida

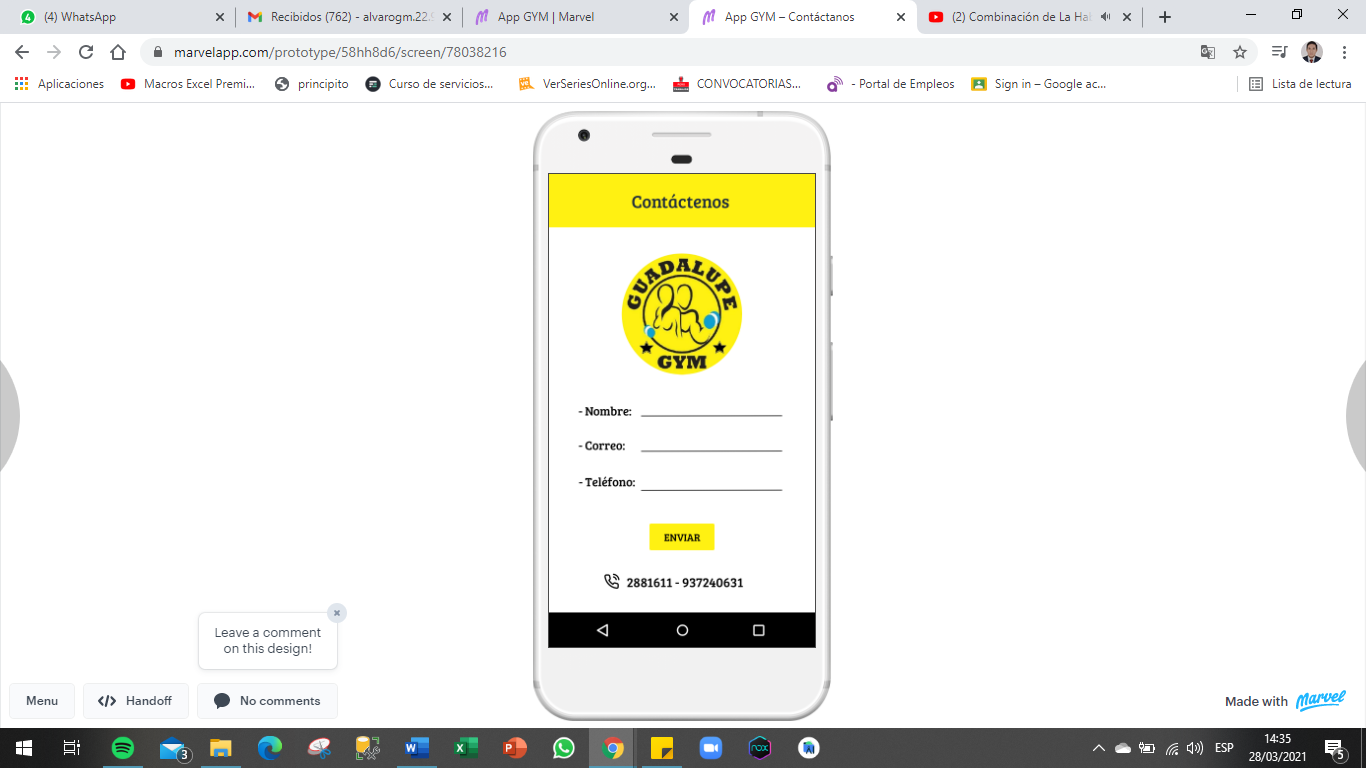
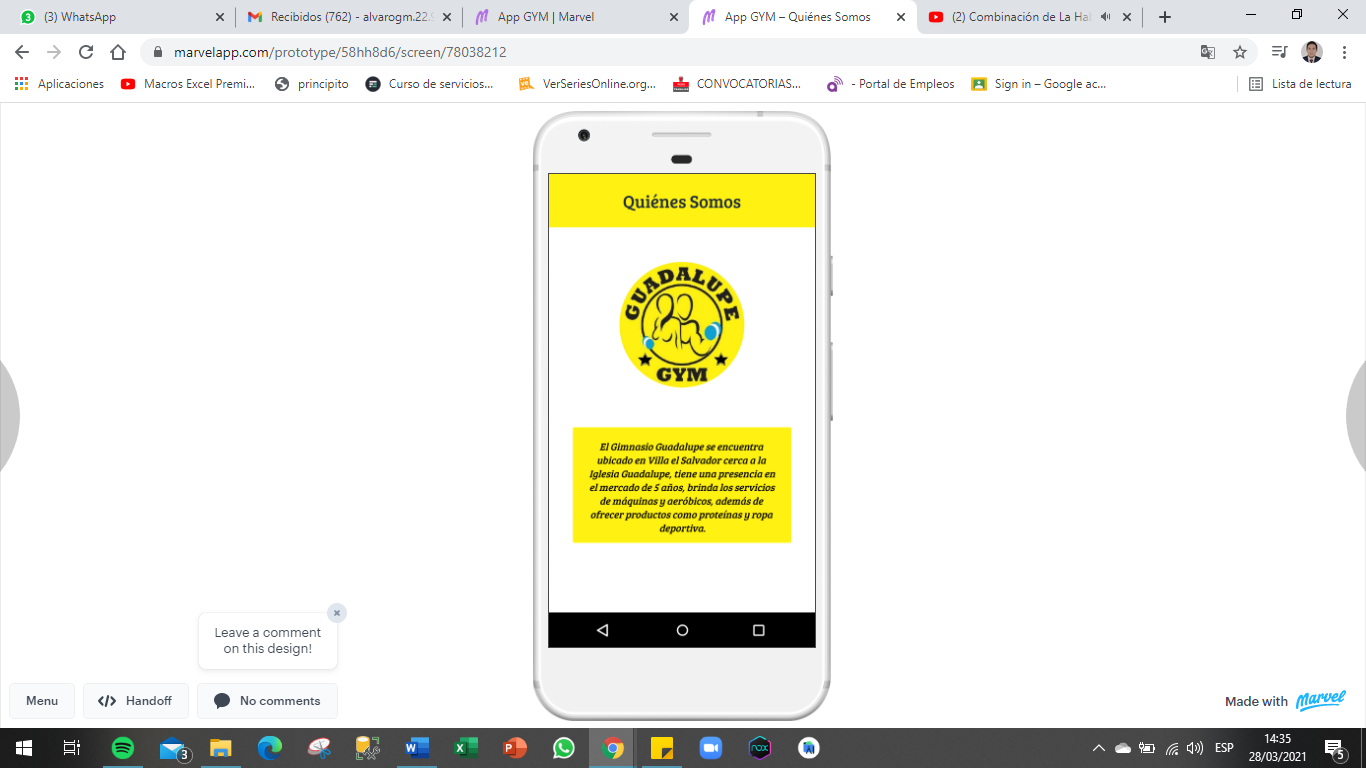
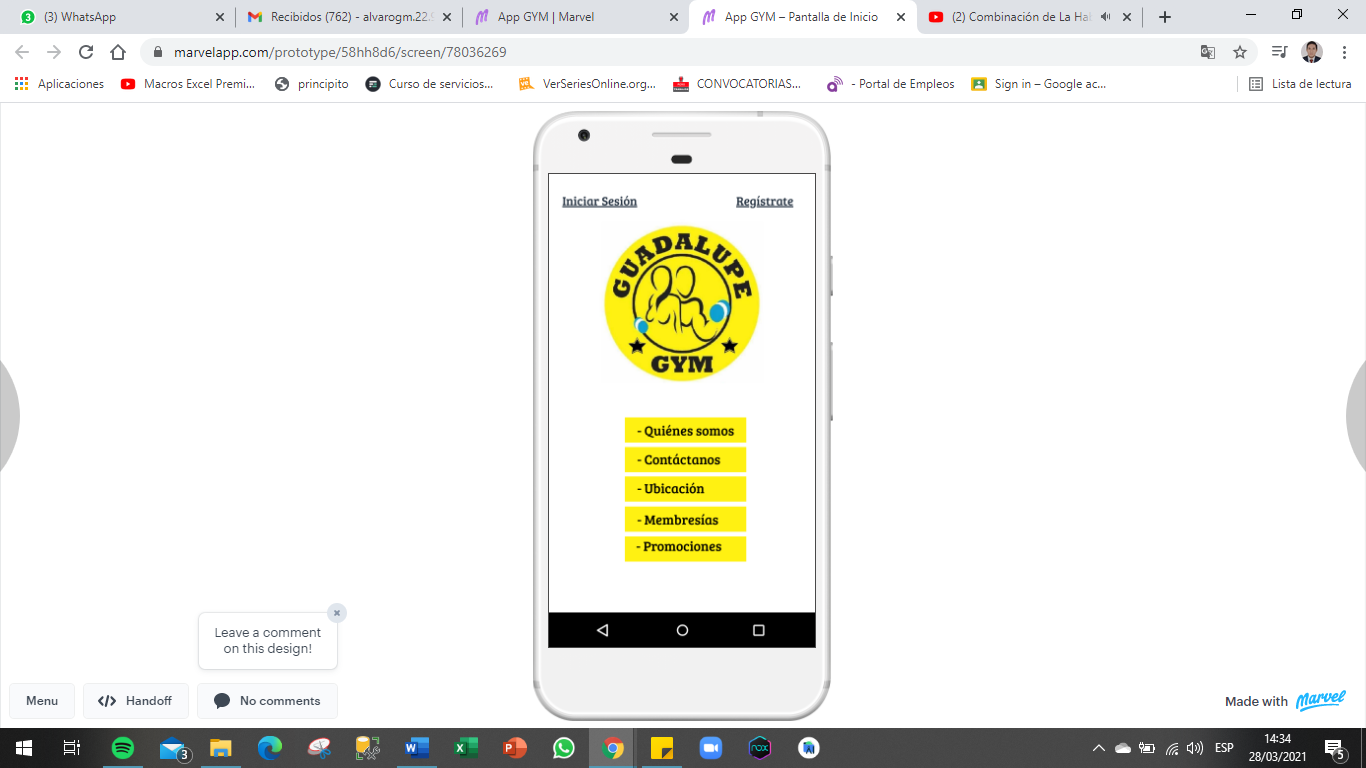
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| **Cuando:**  *Ingreso como Personal del Gimnasio:*   * Registrar mi asistencia, debe aparecer la fecha y hora, si es de entrada o salida y un botón para marcar. | **Espero:**   * La fecha y Hora son las del Sistema y no deben ser editables. * Confirmación de la marcación Ok. * Mensaje de Advertencia, si se quiere salir de la opción sin haber marcado. * No debe permitir marcar más de dos veces en el día (Solo Entrada y Salida). |

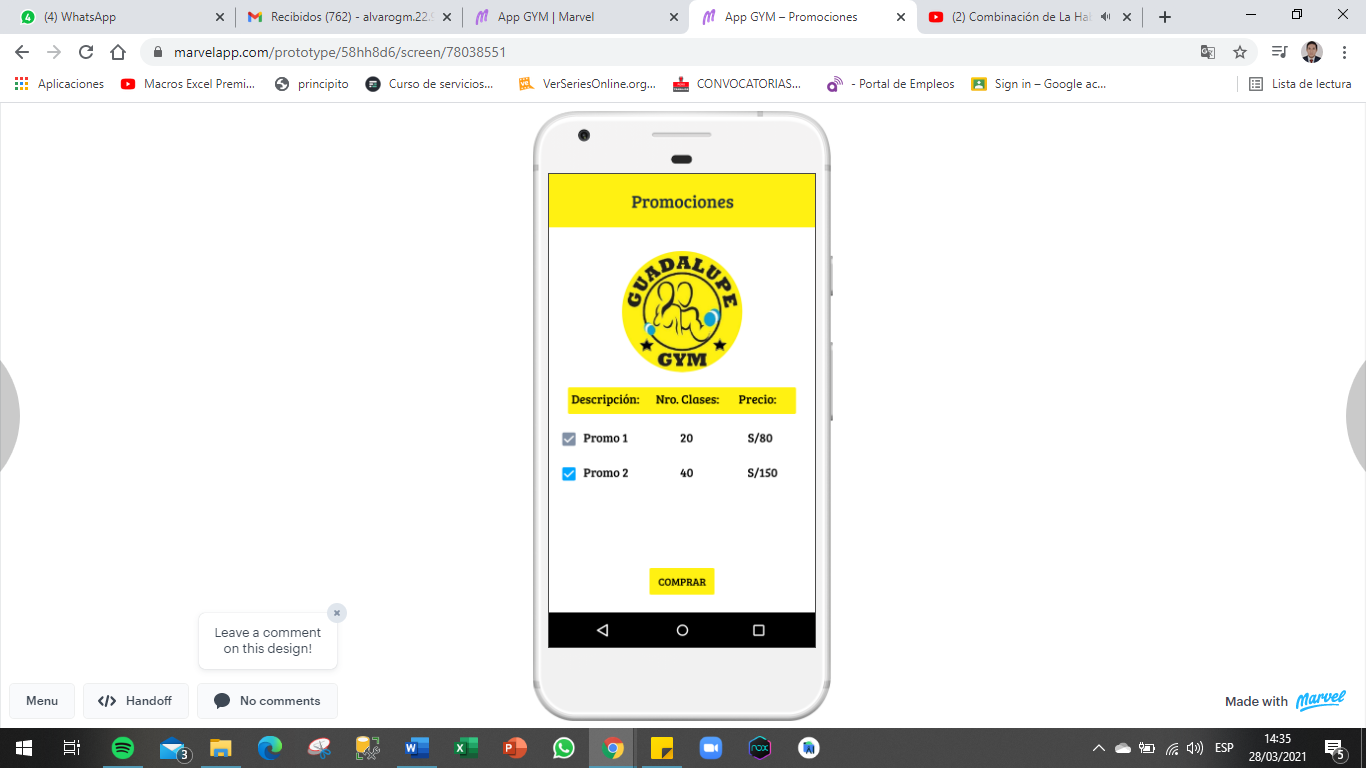
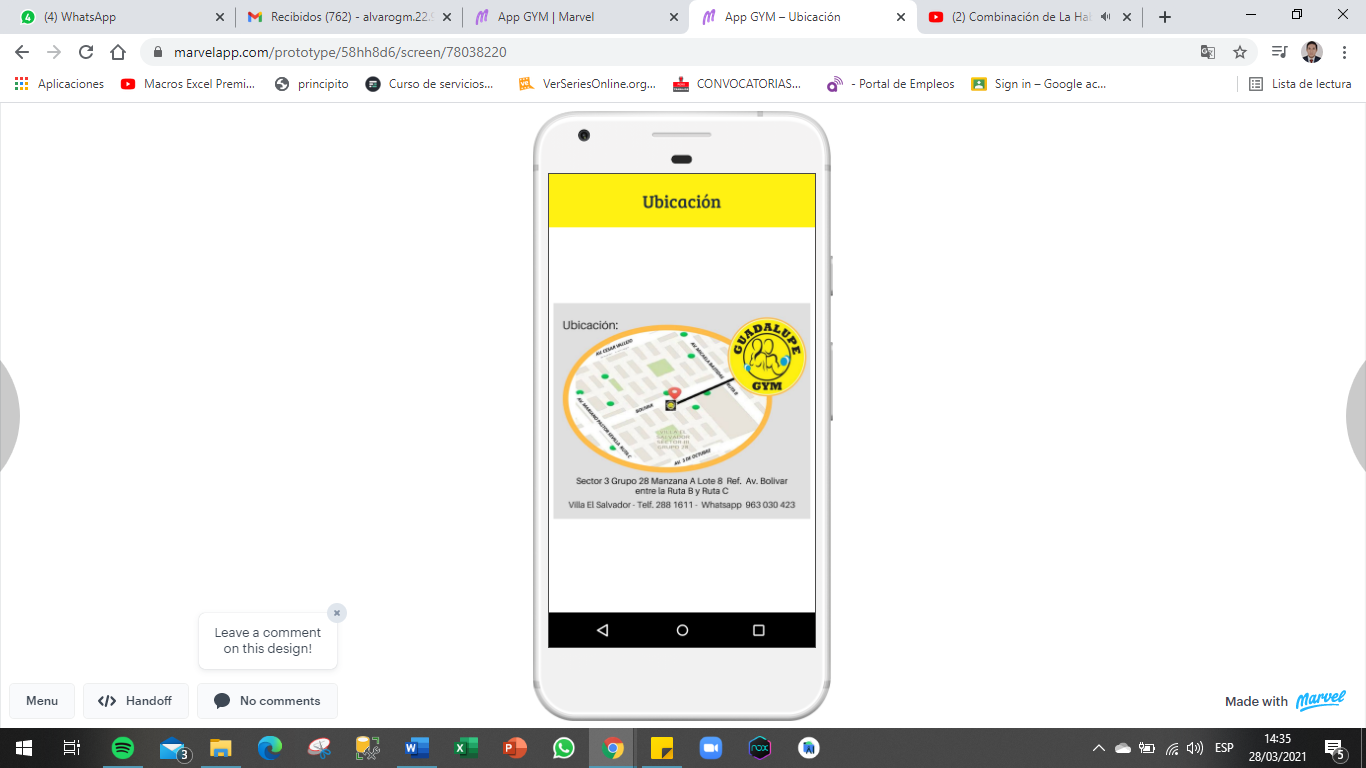
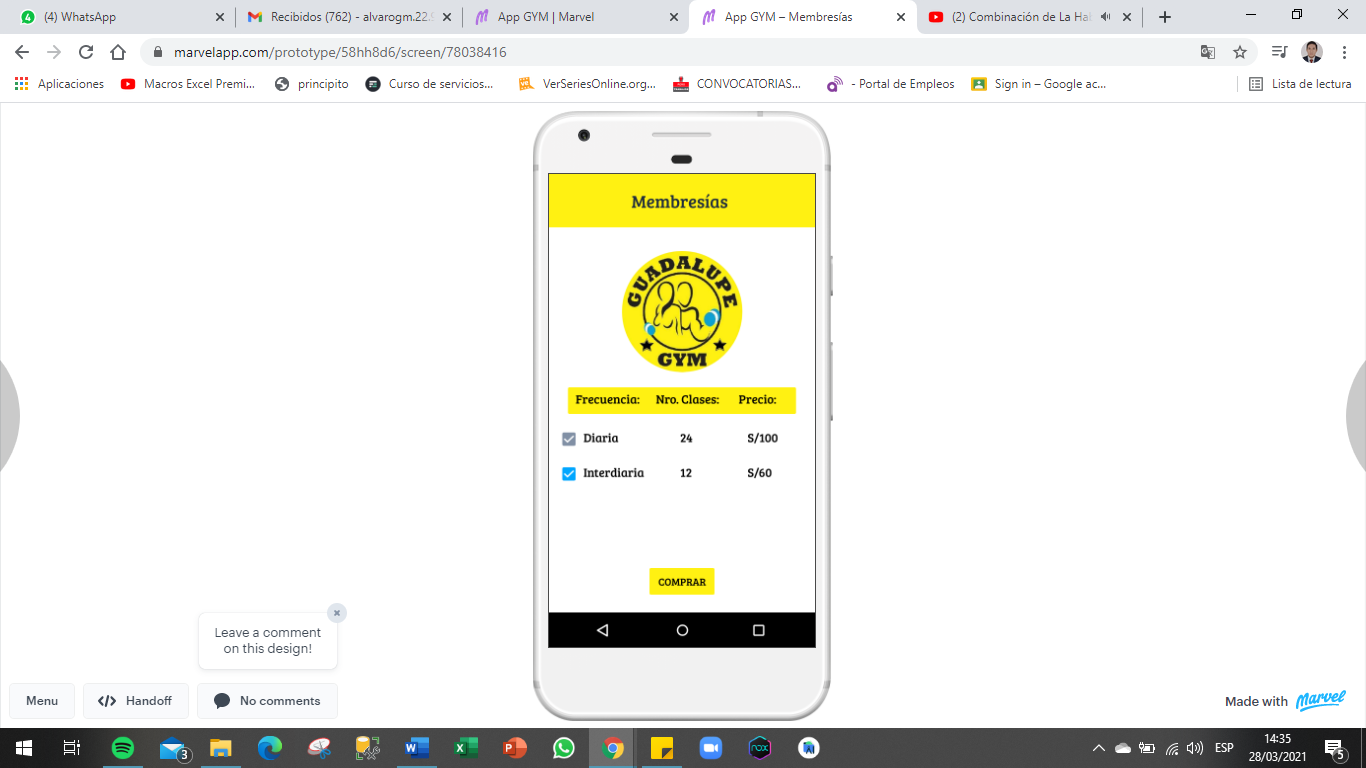
**HU02.** **Consultar Horario del Personal:** Como Personal del gimnasio, deseo consultar mi horario mensual por un periodo de tiempo.

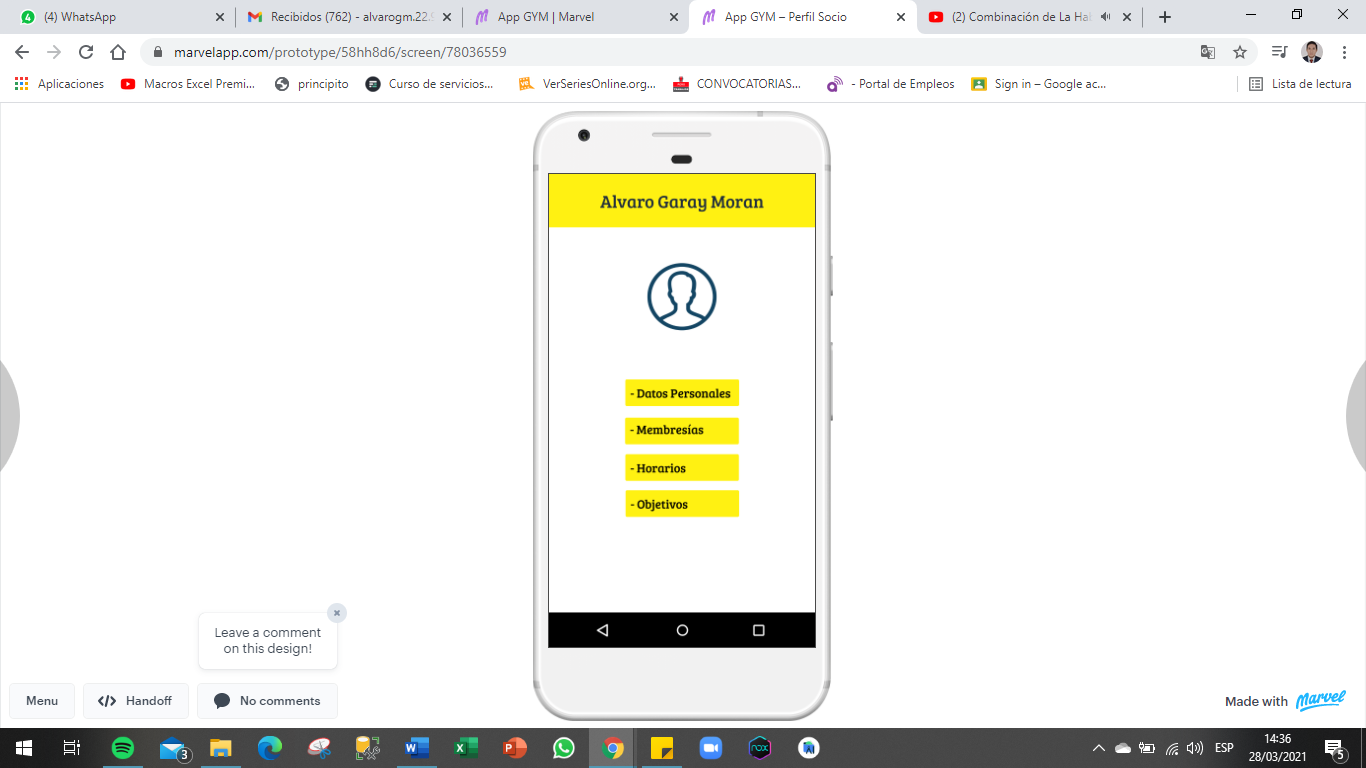
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| **Cuando:**  *Ingreso Personal del Gimnasio:*   * Para consultar debo indicar: la fecha de inicio y fecha de fin. * El sistema debe permitir seleccionar una fecha en un calendario, o permitir el ingreso en formato fecha. | **Espero:**   * Validación en los rangos de fechas ingresados (la fecha fin no debe ser menor a la fecha inicio) * Listado del horario del mes, debe visualizarse nombre, fecha y hora. * Mensaje de error si no se ingresan los datos requeridos. |

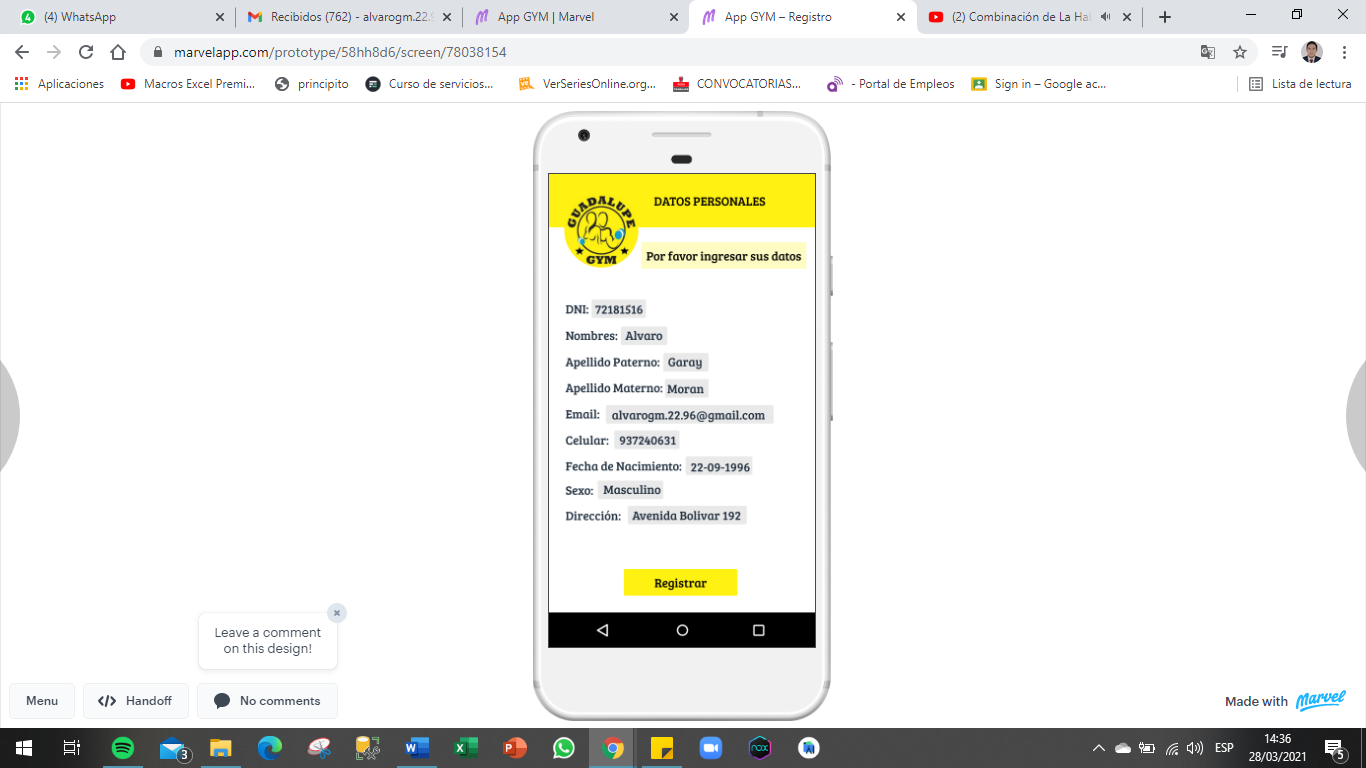
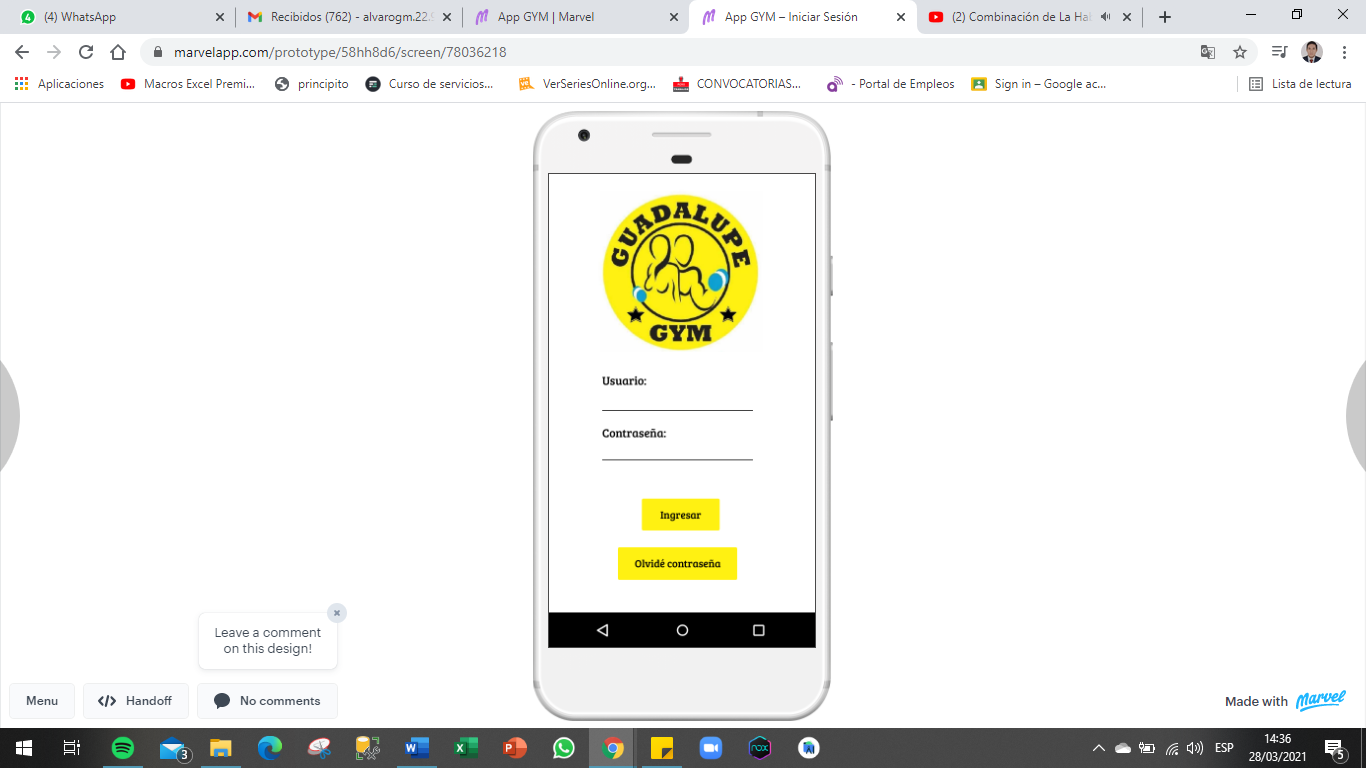
1. **Prototipos del App**

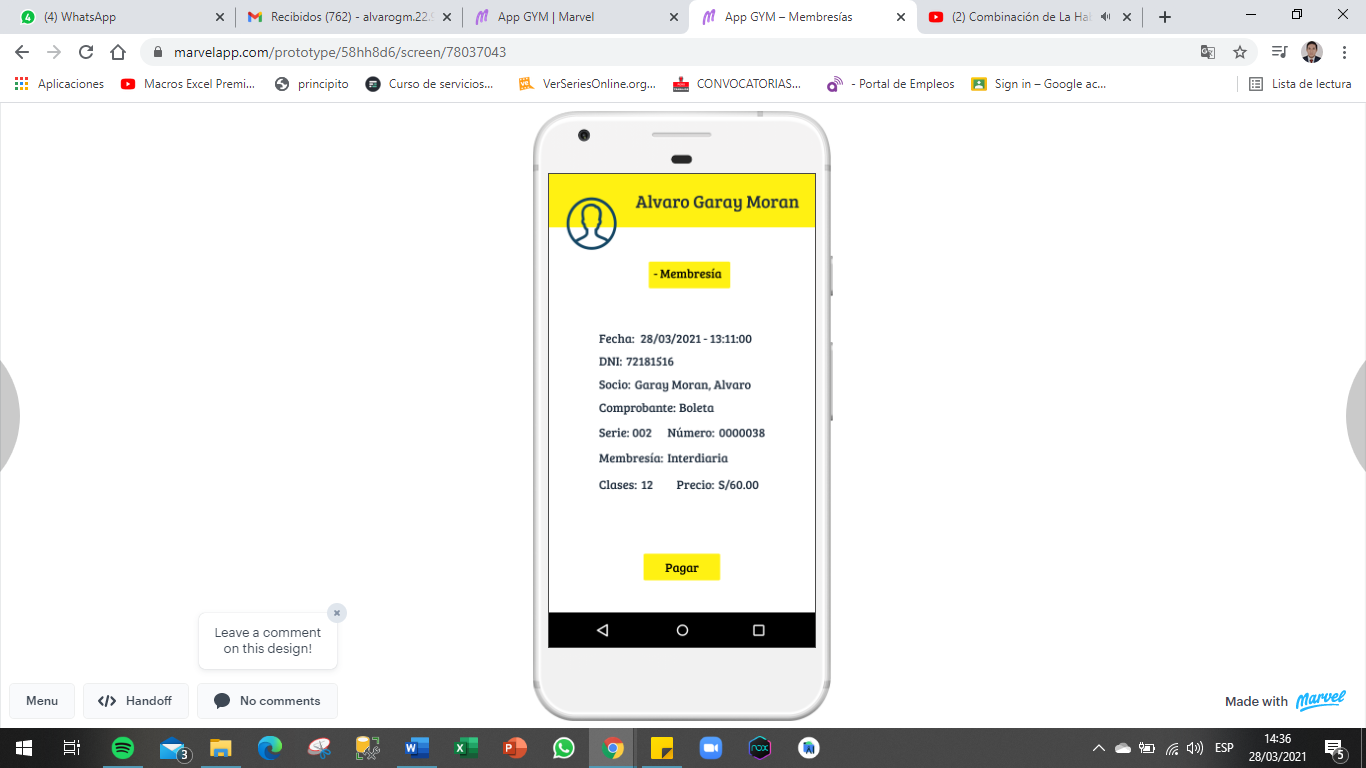
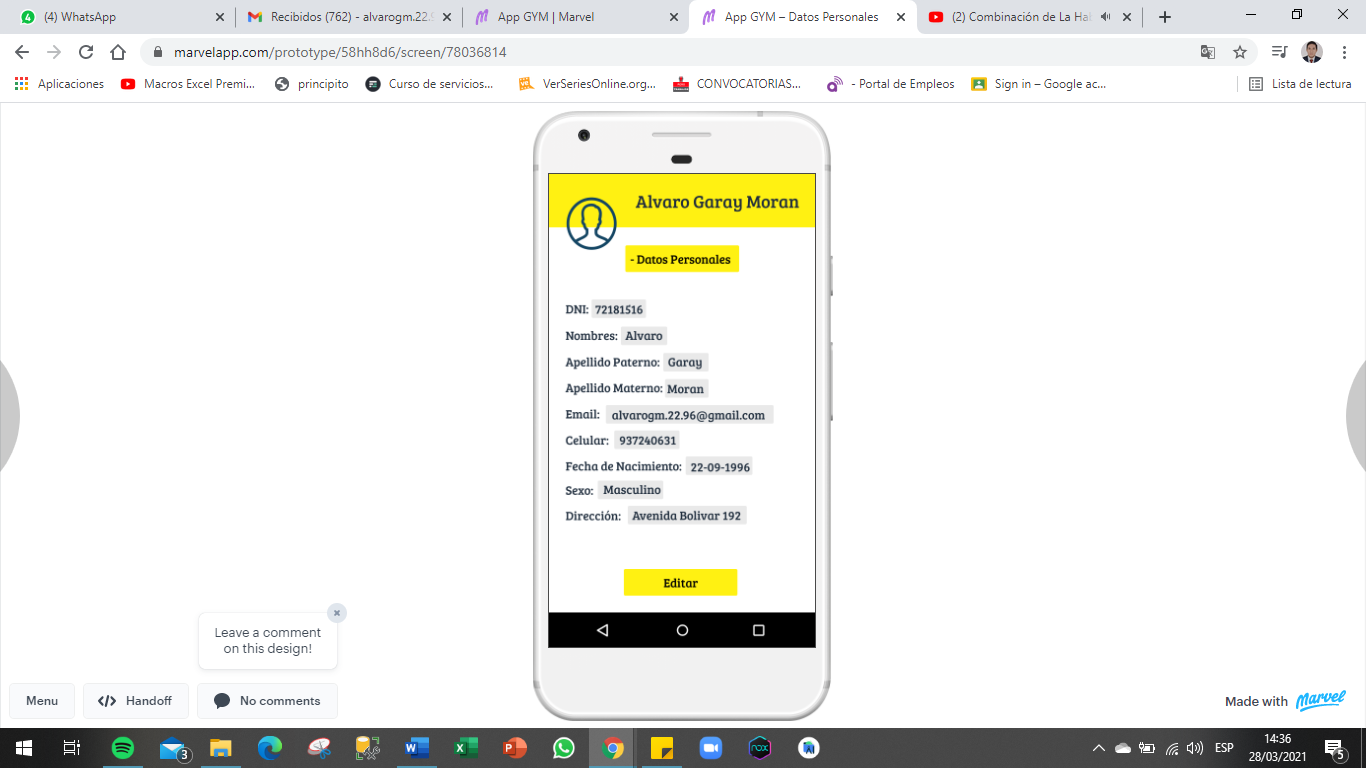
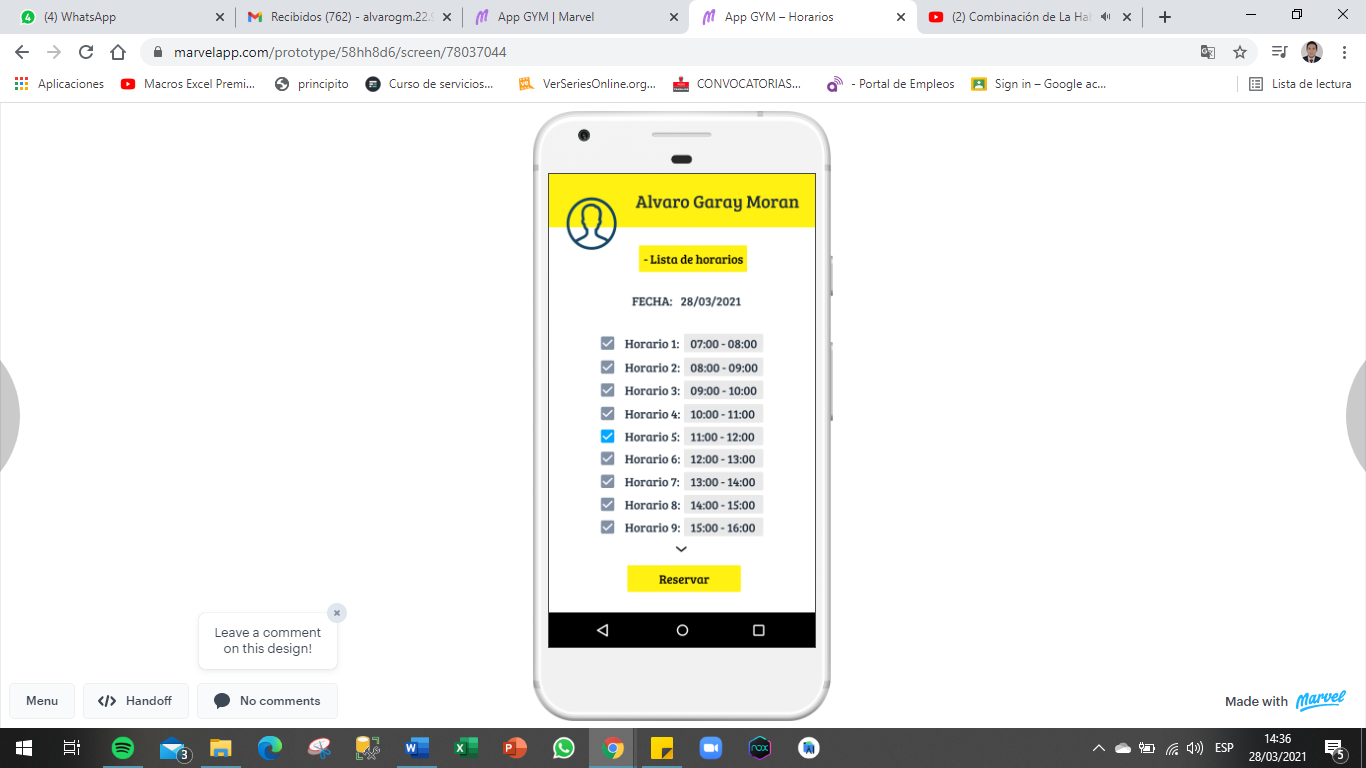
**Vistas del Usuario**

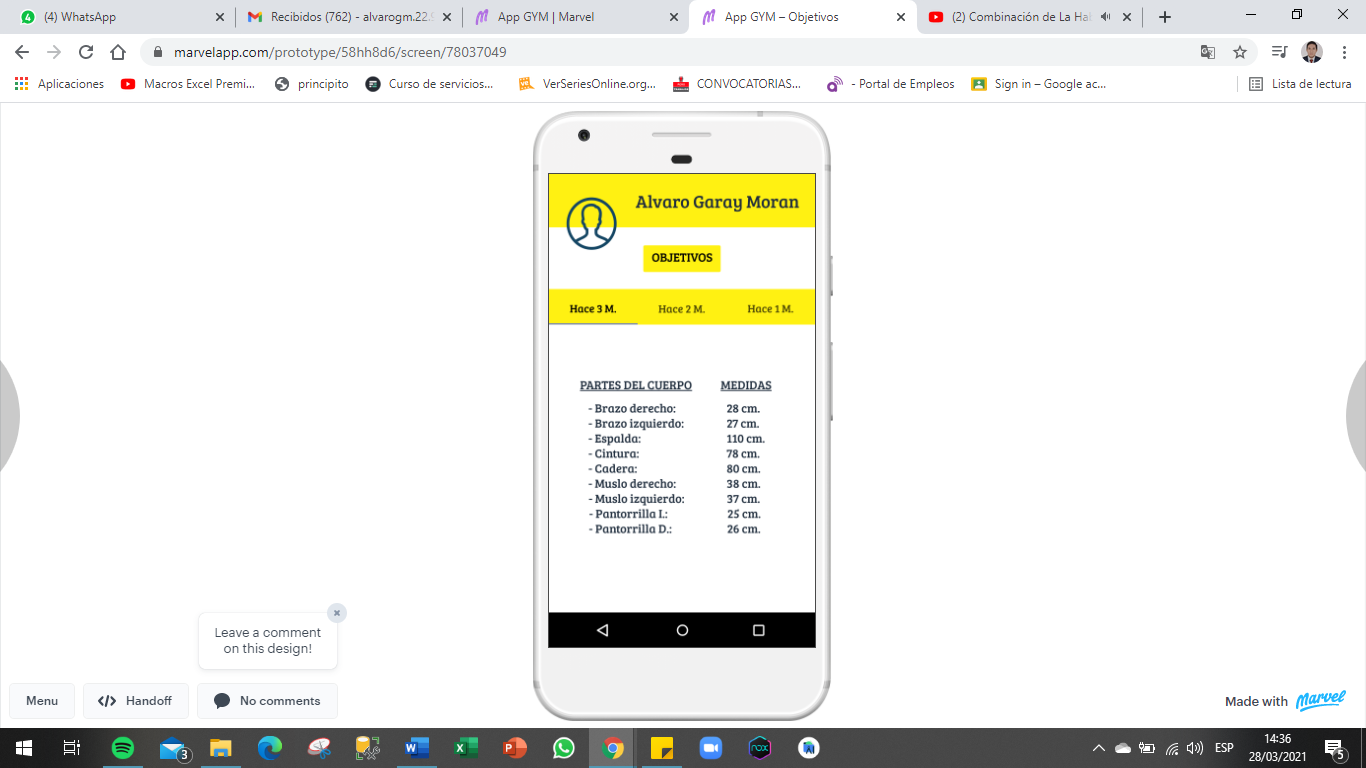




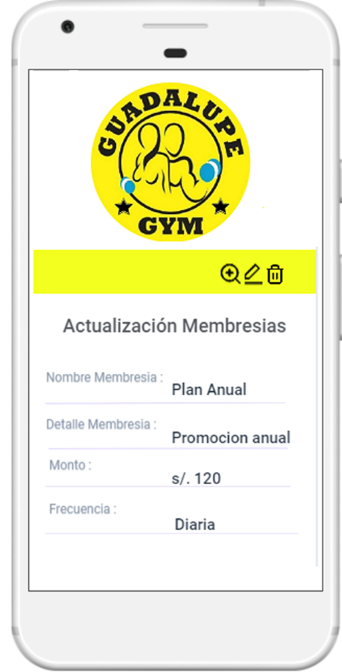
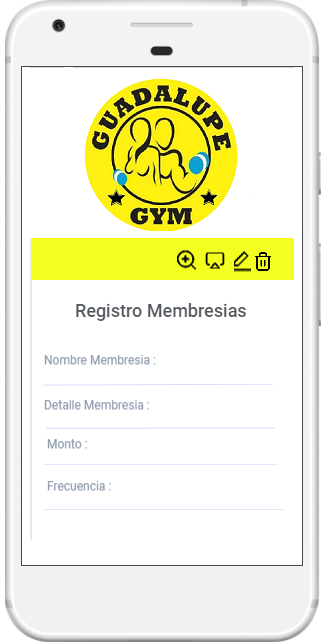




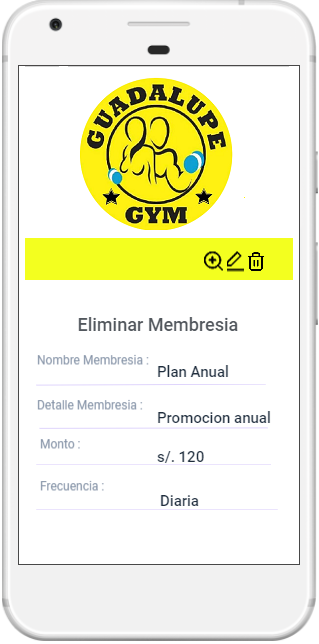
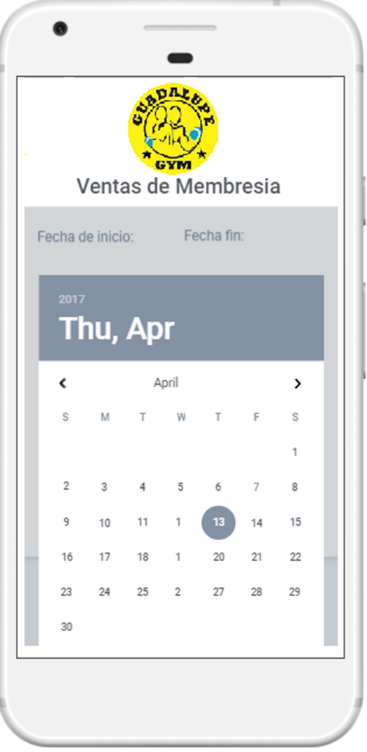




**Vistas del Administrador**

****![Interfaz de usuario gráfica, Aplicación

Descripción generada automáticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDmRXhpZgAATU0AKgAAAAgABAE7AAIAAAAJAAAISodpAAQAAAABAAAIVJydAAEAAAASAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEJTMDE1OExBAAAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADNDkAAJKSAAIAAAADNDkAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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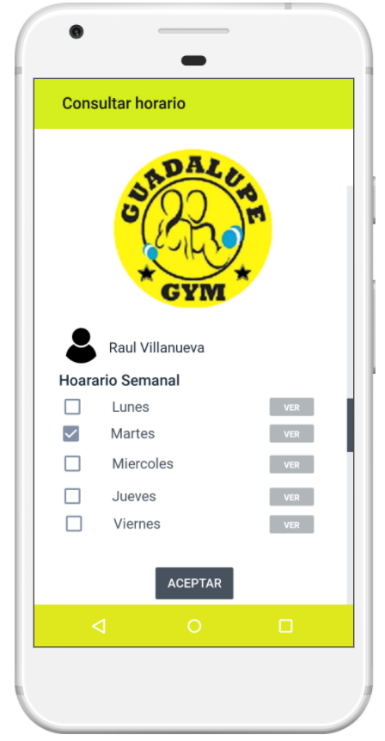


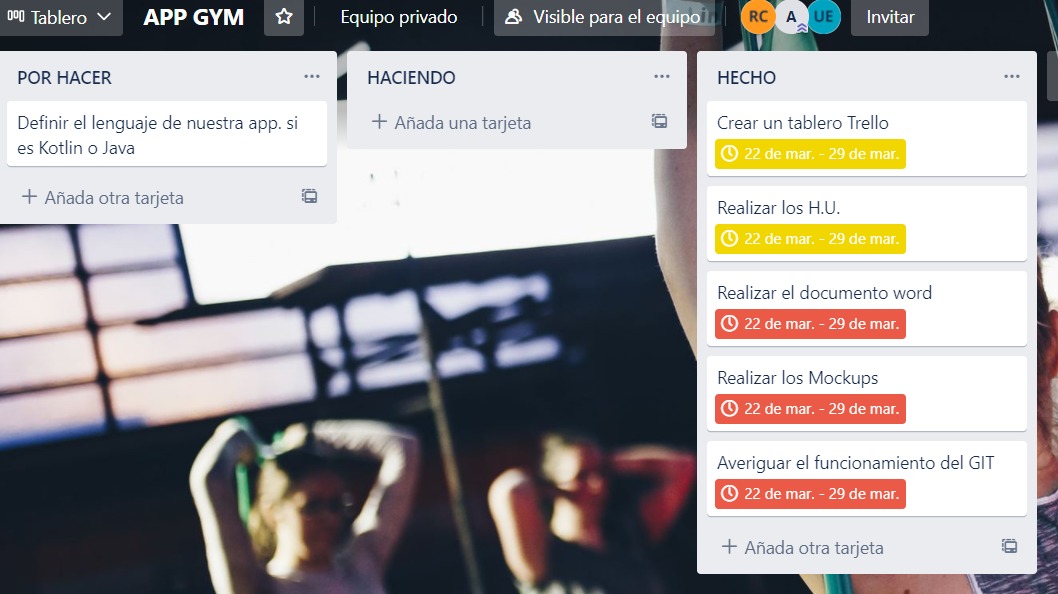


**Vistas del Personal**

![Interfaz de usuario gráfica, Aplicación

Descripción generada automáticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDmRXhpZgAATU0AKgAAAAgABAE7AAIAAAAJAAAISodpAAQAAAABAAAIVJydAAEAAAASAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEJTMDE1OExBAAAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADNDkAAJKSAAIAAAADNDkAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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1. **Product backlog en Trello**
2. **Control de versiones en Git**

* **https://github.com/Alvaro-96/App-Gym.git**