PROPUESTA PROYECTO CFGS DESARROLLO DE APLICACIONES WEB (DAW)

SmartFamily

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# 

# Resumen

El proyecto consistirá en crear una aplicación web que pueda organizar las principales tareas domésticas.

La idea principal es que el usuario pueda crear un grupo llamado “home” o similar y que, las personas a las que él les dé el código, puedan entrar con la contraseña.

Una vez estés dentro de una “home”, la aplicación tendrá una lista de eventos y tareas en la que podrás tener organizada la casa siempre. Los hijos y los padres podrán interactuar conjuntamente, cada uno con su rol para poder automatizar y facilitar procesos rutinarios.

# Contexto y objetivos del proyecto

La idea, como todas, vino con una necesidad que se me creó en un momento y que no podía cumplir. Fue entonces cuando me di cuenta de que necesitaba una lista de las tareas que me faltaban por hacer, pero en ese momento, como en muchos otros, no me acordé de ellas.

A partir de ahí empecé a desarrollar la idea de la aplicación. Poco a poco me fui dando cuenta de las otras necesidades que cubría, como poder ver quién realizó cada tarea, o los participantes de cada evento pendiente, como ir a un partido de fútbol. De esta forma podremos dedicarle nuestro tiempo y dedicación a otras cosas, como el trabajo.

El objetivo principal es cubrir esa necesidad a través de una aplicación que tenga una lista de eventos y una lista de tareas. En la lista de las tareas aparecerán los datos de cada una de ellas de manera visual. Por otro lado, en la lista de eventos aparecerán el evento y cada uno de sus atributos.

Otros objetivos que también persigue el proyecto son:

* Ayudar a organizar la casa
* Tener un espacio conjunto para la familia
* Automatizar las tareas básicas de planificación familiar

# Planteamiento de la solución

## 3.1 Tipos de usuarios de la aplicación

* Usuario sin “home”: El usuario sin “home” no podrá realizar ninguna acción que interactúe con ninguna casa. Solo podrá, además de iniciar y cerrar sesión como todos los usuarios registrados, unirse a una casa o crearla.
* Usuario con “home”
  + Hijo: Puede gestionar todos los apartados de los eventos. Sin embargo, no puede eliminar tareas, solo marcarlas como completadas.
  + Padre: Tiene todos los requisitos funcionales relacionados con los eventos y las tareas
* Administrador de la “home” (Padre): Además de todas las funcionalidades que tienen los padres, también puede cambiar los roles de cada persona de la casa. El administrador va a ser exclusivamente el creador de la “home”.

## 3.2 Tecnologías y recursos a utilizar

Para mi aplicación voy a utilizar Node.js, Next.js y MySQL. Las dos primeras son herramientas que me permiten crear aplicaciones web escalables y de alta calidad, mientras que MySQL es una base de datos relacional que me permite almacenar y recuperar datos. Al utilizar estas herramientas juntas, puedo crear una aplicación web dinámica y escalable que se integra con una base de datos MySQL.

### 3.2.1 Node.js

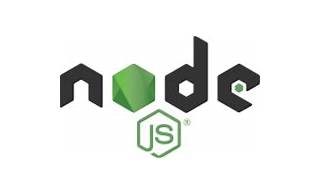
Node.js es un entorno de ejecución de JavaScript de código abierto, multiplataforma y de un solo hilo para crear aplicaciones de red y del lado del servidor rápidas y escalables. Fue creado por Ryan Dahl en 2009 y se basa en el motor de ejecución de JavaScript V8 de Google. Node.js utiliza una arquitectura de E/S basada en eventos y sin bloqueos, lo que la hace eficiente y adecuada para aplicaciones en tiempo real. Es capaz de manejar múltiples clientes al mismo tiempo utilizando la arquitectura "Single Threaded Event Loop". Node.js es un entorno de programación popular que puede utilizarse para crear aplicaciones a gran escala que necesiten soportar múltiples peticiones concurrentes. Dentro de node usé varias librerías para facilitar la creación de la app:

Ilustración 1 Logo Node.js

#### 3.2.1.1 Express

Express es un marco de aplicación web para Node.js, diseñado para simplificar y agilizar el desarrollo de aplicaciones web y APIs.

Lo elegí porque es un marco ligero y flexible que simplifica el desarrollo de aplicaciones web y APIs en Node.js, proporcionando herramientas esenciales para el manejo de rutas, middleware y más, con un enfoque en la simplicidad y la eficiencia.

#### 3.2.1.2 Promise-MySQL

Promise-mysql es un módulo de Node.js que extiende la funcionalidad de la biblioteca mysql al proporcionar una interfaz basada en promesas para interactuar con bases de datos MySQL.

Lo utilicé porque a diferencia de la biblioteca mysql estándar, promise-mysql utiliza promesas en lugar de callbacks para gestionar consultas y transacciones. Esto simplifica el manejo asíncrono del código y mejora la legibilidad.

Gracias a esta librería puedo usar el async/await en las consultas y escribir código más limpio y legible al interactuar con la base de datos, especialmente en operaciones que involucran múltiples consultas o transacciones.

#### 3.2.1.3 Dotenv

Dotenv permite cargar variables de entorno desde un archivo llamado .env en el directorio de tu aplicación. Estas variables pueden contener configuraciones sensibles, como claves API, contraseñas y otros valores específicos del entorno. A la hora de que la app fuese a producción o se subiese a un repositorio, como es un archivo oculto, este archivo no se copiaría para así mantener la privacidad de tus claves secretas.

#### 3.2.1.4 Bycryptjs

Bycryptjs es una biblioteca de node que proporciona funciones de hash de contraseñas basadas en bcrypt. Se utiliza principalmente para el hashing seguro de contraseñas.

Utiliza el algoritmo de hashing bcrypt, que es especialmente diseñado para ser lento y resistente a ataques de fuerza bruta, como los ataques de diccionario y los ataques de rainbow table.

Lo utilicé para encriptar la información delicada como las contraseñas, los ids de los usuarios y casas y alguna cosa más.

#### 3.2.1.5 Cors

Lo elegí porque es una herramienta esencial para gestionar políticas CORS en aplicaciones Node.js, especialmente en el contexto de servidores web Express. Facilita la configuración y el control preciso sobre cómo las solicitudes desde otros dominios pueden interactuar con los recursos de tu aplicación, mejorando la seguridad y la interoperabilidad en entornos web distribuidos

#### 3.2.1.6 JWT (Json Web Token)

JSON Web Token (JWT) es un estándar abierto (RFC 7519) que define una forma compacta y autónoma de representar información entre dos partes de manera segura. Lo utilicé de tal forma que el front crea un token codificando el uid del usuario con una clave.

A la hora de hacer una consulta a la API, en los headers hay una clave llamada ‘x-acces-token' en la que su valor es el token creado. Después, cuando llega a la API, como tiene la contraseña para desencriptarlo, comprueba que el id sea de un usuario registrado. Si no lo es devuelve un error debido a que un usuario que no está en la BBDD estaría intentando extraer información.

#### 3.2.1.7 Helmet

Helmet es un middleware de seguridad para aplicaciones web Node.js que ayuda a proteger contra diversas vulnerabilidades y ataques comunes mediante la configuración de encabezados HTTP de manera segura.

#### 3.2.1.8 UUID

UUID es una librería que sirve para crear identificadores aleatorios. La probabilidad de colisión (dos UUIDs siendo iguales) es extremadamente baja, especialmente en el caso de UUIDs generados de manera aleatoria.

Esto los hace adecuados para su uso en sistemas distribuidos donde se requiere una identificación única sin necesidad de coordinación central.

#### 3.2.1.9 Babel

Babel es una herramienta de compilación para JavaScript que permite a los desarrolladores escribir código en la última versión del estándar ECMAScript (también conocido como ES6+ o ES2015+) y convertirlo a una versión anterior que sea compatible con navegadores y entornos de ejecución más antiguos.

Lo uso para que convierta todo mi código en un código de Javascript que se pueda ejecutar en cualquier versión de navegador o lo que se necesite.

#### 3.2.1.10 Morgan

Morgan es un middleware para Node.js utilizado principalmente para la creación de registros (logs) en aplicaciones web. Proporciona información detallada sobre las solicitudes HTTP que llegan al servidor, lo que resulta útil para el desarrollo, la depuración y el monitoreo.

Lo utilizo para poder ver las peticiones que recibe el servidor por consola para ver que todo funcinoa perfectamente

#### 3.2.1.11 Nodemon

Nodemon es una herramienta de desarrollo para Node.js que facilita la tarea de reiniciar automáticamente una aplicación cuando se detectan cambios en los archivos. Esta característica es particularmente útil durante el desarrollo para agilizar el proceso de iteración y visualización de cambios en tiempo real.

La añadí ya que se ahorra mucho tiempo a la hora de desarrollar la API, ya que al guardar cualquier archivo se recarga automáticamente y no tienes que redesplegarlo por tu cuenta cada vez que hagas un cambio.

### 3.2.2 Next.js

Next.js es un marco (framework) de desarrollo web de código abierto para React, que es una biblioteca de JavaScript utilizada para construir interfaces de usuario. Fue creado por Zeit y está diseñado para facilitar la creación de aplicaciones web modernas y eficientes. Lo elegí porque me llamó la atencion su routing basado en sistema de archivos. Aunque también cabe mencionar que tiene renderización del lado cliente y del lado del servidor, su recarga en caliente, su pre-renderización estática y su fácil manejo y curva de aprendizaje.

Ilustración 2 Logo Next.js

#### 3.2.2.1 Next-Auth

NextAuth.js es una biblioteca poderosa y flexible para la implementación de autenticación en aplicaciones Next.js. Su capacidad para gestionar diversos proveedores de autenticación y su integración natural con Next.js lo convierten en una opción sólida para proyectos que requieren una solución de autenticación completa y adaptable.

Aunque tiene diversos proveedores utilicé una autenticación sencillaa de correo y contraseña. Pero utilicé esta librería por su fácil escalabilidad en un futuro para poder poner autenticación con google, apple, microsoft, facebook...

#### 3.2.2.2 Uiball/loaders

Uiball/loaders es un paquete de animaciones que utilicé para mejorar la experiencia del usuario para la espera a la carga de la página. Mientras está cargando la página (status == ‘loading’) la página imprime esta animación por pantalla, y en el momento que toda la información se carga se visualiza la página.

#### 3.2.2.3 Swiper

Swiper es una librería de JavaScript que se utiliza para crear carruseles de imágenes y otros elementos de contenido en sitios web. La librería es muy popular debido a su facilidad de uso y a las numerosas opciones de personalización que ofrece. Puedes usar Swiper para crear carruseles que se desplacen automáticamente, que se puedan desplazar mediante deslizamiento con el dedo y muchas otras funcionalidades.

Su función en mi aplicación es poder visualizar las tareas y eventos de una manera más visual y dinámica mediante un carrusel de tarjetas.

### 3.2.3 MySQL

MySQL es un sistema de gestión de bases de datos relacional ampliamente utilizado en el desarrollo de aplicaciones web. Proporciona un entorno robusto para almacenar, organizar y recuperar datos de manera eficiente. Elegí este tipo de BBDD porque prefiero este tipo de almacenamiento a uno no relacional como MongoDB. Además, tiene buena compatibilidad con Node. A la hora de elegirlo también vi importante el lenguaje SQL, porque con el es posible poder hacer consultas más complejas y realizar operaciones en la base de datos de manera efectiva

Ilustración 3 Logo MySQL

### 3.2.4 Esquema

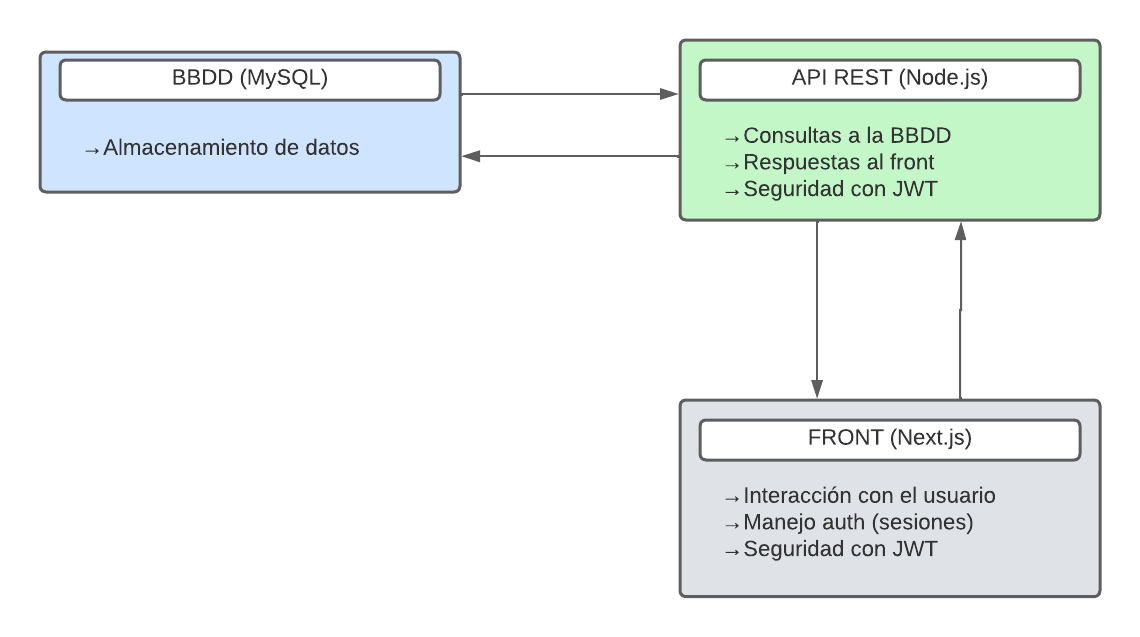


Ilustración 4 Esquema Resumen Alicación

## 3.3 Alcance del proyecto (Requisitos funcionales)

* Iniciar sesión
* Cerrar sesión
* Registrarse
* Poder crear una “home”
* Poder unirme a una “home”
  + Crear código de invitación
  + Unirse con código de invitación
* Poder gestionar la “home”
  + Cambiar roles a los miembros
* Poder gestionar las tareas
  + Ver tareas
  + Añadir tareas
  + Eliminar tareas
  + Completar tareas
* Poder gestionar los eventos
  + Ver eventos
  + Añadir evento
  + Eliminar evento

### 3.3.1 Usuario sin loguear

Tabla 1 Registrarse (Requisito funcinoal)

|  |  |
| --- | --- |
| **Apartado** | **Descripción** |
| Título | Registrarse |
| Objetivo | Poder registrar nuevos usuarios |
| Entrada | Nombre, apellidos, sexo, correo, password, teléfono y fecha de nacimiento |
| Proceso | Introduces los datos mencionados en la entrada y la API introduce el nuevo usuario en la BBDD y automáticamente inicia sesión. |
| Salida | Inicias sesión con un nuevo usuario |

### 3.3.2 Usuario logueado sin ‘home’

Tabla 2 Iniciar sesión (Requisito funcional)

|  |  |
| --- | --- |
| **Apartado** | **Descripción** |
| Título | Iniciar sesión |
| Objetivo | Poder iniciar sesión con mis credenciales |
| Entrada | Correo y contraseña |
| Proceso | Introduces tu usuario y contraseña. Next-auth ejecuta un proceso por el cual accede a la API a la ruta ‘http://localhost:4000/api/auth/login’. Si el usuario existe le devuelve un objeto con los datos para guardar en sesión |
| Salida | Acceso a la aplicación con el rol de tu usuario |

Tabla 3 Cerrar sesión (Requisito funcional)

|  |  |
| --- | --- |
| **Apartado** | **Descripción** |
| Título | Cerrar sesión |
| Objetivo | Poder cerrar sesión |
| Entrada | UID del usuario (está guardado en sesión) |
| Proceso | Haces click en cualquier botón de cerrar sesión (en el menú o en el perfil) y mediante Next-auth cierra la sesión del usuario. |
| Salida | Redirección a la pantalla de login sin autenticación |

Tabla 4 Crear casa (Requisito funcional)

|  |  |
| --- | --- |
| **Apartado** | **Descripción** |
| Título | Crear casa |
| Objetivo | Poder crear una nueva casa |
| Entrada | Nombre (introducido por el usuario) y administrador (correo del usuario que tiene iniciada sesión) |
| Proceso | Hace un POST a la API a la dirección ‘http://localhost:4000/api/casa’. Esta crea una casa en la BBDD y cambia el id\_casa del usuario en sesión al id creado de la nueva casa |
| Salida | Te redirecciona a la home con la nueva casa |

Tabla 5 Unirse a una casa (Requisito funcional)

|  |  |
| --- | --- |
| **Apartado** | **Descripción** |
| Título | Unirse a una casa |
| Objetivo | Introducir un código de invitación válido para poder unirte a una casa existente |
| Entrada | Código de invitación |
| Proceso | Al hacer el formulario, te pide el código de invitación. Cuando lo envías a la API, esta accede a la BBDD para coger el id de la casa del código de invitación y asignarle a la casa con ese id el correo del nuevo usuario y al usuario el id de la casa de la que formará parte |
| Salida | Redirección a la home con tu nueva casa asignada |

### 3.3.3 Usuario logueado con ‘home’

Pueden hacer todas las acciones que pueden hacer los que no tienen casa excepto unirse a una casa o crear otra.

### 3.3.3.1 Hijo

Tabla 6 Crear código de invitación (Requisito funcional)

|  |  |
| --- | --- |
| **Apartado** | **Descripción** |
| Título | Crear código de invitación |
| Objetivo | Poder crear un código para que se unan a tu casa |
| Entrada | El id de tu casa (guardado en sesión) |
| Proceso | El usuario se dirige al apartado Mi casa. Desde allí hará click en el botón de crear código de invitación. El front le hará una petición a la API ,a la url ‘http://localhost:4000/api/invitacion’, en la que creará una nueva invitación y elimina los que tienen más de 10 minutos de antigüedad. |
| Salida | Un alert con el código de invitación |

Tabla 7 Ver tareas (Requisito funcional)

|  |  |
| --- | --- |
| **Apartado** | **Descripción** |
| Título | Ver tareas |
| Objetivo | Poder ver las tareas pendientes o completadas |
| Entrada | Id de la ‘home’ |
| Proceso | Dependiendo de si se consulta a ‘http://localhost:4000/api/tareas/pendientes/:id’ o a ‘http://localhost:4000/api/tareas/completadas/:id’ te devuelve las tareas completadas o pendientes. Lo detecta mediante el estado de la tarea. |
| Salida | Te muestra en un carrusel de Swiper las tareas |

Tabla 8 Crear eventos (Requisito funcional)

|  |  |
| --- | --- |
| **Apartado** | **Descripción** |
| Título | Crear eventos |
| Objetivo | Poder crear eventos |
| Entrada | Nombre, fecha, hora, ubicación y participantes |
| Proceso | El formulario hace una petición POST a la API. Esta crea un id aleatorio y encriptado y lo introduce en la BBDD junto al cuerpo de la petición. |
| Salida | Redirecciona a la página de tareas |

Tabla 9 Ver eventos (Requisito funcional)

|  |  |
| --- | --- |
| **Apartado** | **Descripción** |
| Título | Ver eventos |
| Objetivo | Ver los eventos |
| Entrada | Id de la casa |
| Proceso | El front hace una petición GET a la API y obtiene los eventos asociados a esa casa. La API devuelve una lista compuesta por dos objetos, uno con los eventos pasados y otro con los proximos |
| Salida | Devuelve dos carruseles Swipper. Uno con los eventos próximos y otro con los pasados |

Tabla 10 Eliminar eventos (Requisito funcional)

|  |  |
| --- | --- |
| **Apartado** | **Descripción** |
| Título | Eliminar evento |
| Objetivo | Poder eliminar un evento cuando ya ha pasado |
| Entrada | Id del evento |
| Proceso | Al hacer click en el botón de eliminar evento, lanza una función que envía una peticion delete a la API con el id del evento y lo elimina de la BBDD |
| Salida | Recarga la página sin el evento |

### 3.3.3.2 Padre

Puede hacer todas las acciones que pueden hacer los hijos.

Tabla 11 Añadir tareas (Requisito funcional)

|  |  |
| --- | --- |
| **Apartado** | **Descripción** |
| Título | Añadir tareas |
| Objetivo | Poder crear una nueva tarea |
| Entrada | Nombre, descripción, participantes y estado |
| Proceso | El formulario de crear tareas hace un POST a la API con la entrada y el id de la casa guardado en la sesión del usuario. Esta crea una nueva tarea en la BBDD con los datos recibidos. La BBDD creará automáticamente la fecha de creación con el timestamp actual |
| Salida | Te redirecciona a las tareas pendientes |

Tabla 12 Completar tareas (Requisito funcional)

|  |  |
| --- | --- |
| **Apartado** | **Descripción** |
| Título | Completar tareas |
| Objetivo | Poder completar tareas |
| Entrada | Id de la tarea |
| Proceso | La API cambia el estado de la tarea a Completada. Al realizar este cambio, la BBDD lo detecta con un trigger y cambia la fecha completada a el timestamp actual |
| Salida | Te redirecciona a las tareas |

Tabla 13 Eliminar tareas (Requisito funcional)

|  |  |
| --- | --- |
| **Apartado** | **Descripción** |
| Título | Eliminar tareas |
| Objetivo | Poder eliminar tareas |
| Entrada | Id de la tarea a eliminar |
| Proceso | El front le hace una petición DELETE a la API. Esta accede a la BBDD y elimina la tarea que tenga ese id |
| Salida | Recarga la página con las tareas restantes |

### 3.3.4 Administrador

Puede hacer todas las acciones que pueden hacer los usuarios logueados.

Tabla 14 Cambiar roles (Requisito funcional)

|  |  |
| --- | --- |
| **Apartado** | **Descripción** |
| Título | Cambiar roles a los miembros |
| Objetivo | Poder variar entre el rol de Padre o Hijo |
| Entrada | Id del usuario a cambiar |
| Proceso | En el apartado miembros de Mi casa hay un botón que dice cambiar rol. Al hacer click hace un POST a la API e invierte el rol del usuario (si es hijo se le asigna padre y viceversa) |
| Salida | Recarga la página con el usuario cambiado |

## 3.4 Requerimientos de interfaces externas

### 3.4.1 Interfaces de los Usuarios

La interfaz gráfica varía dependiendo de la página en la que te encuentres y el rol que tengas. Todas las páginas extienden de un diseño global, pero cada una de ellas y cada uno de sus componentes tienen asociado un fichero ‘.css’ que contiene los estilos propios de cada uno de ellos.

### 3.4.2 Interfaces Hardware

Si está desplegada en un servidor se podrá ver a través de cualquier sistema operativo. En cambio, si se quiere desplegar en local, se tendrá que comprobar que el SO sea compatible con Node

### 3.4.3 Interfaces Software

Ya que es una aplicación web se podrá ver desde cualquier dispositivo que pueda acceder a un navegador web con conexión a internet

### 3.4.3 Interfaces de Comunicaciones

Si se quisiera desplegar la aplicación en un servidor web se tendría que conectar a ella mediante protocolo http a la dirección de la página. Como no se tiene que desplegar lo montaré en el entorno local.

## 3.5 Requerimientos de Rendimiento

Los únicos problemas de rendimiento que se pueden encontrar están asociados a la máquina en la que se despliegue el proyecto y la velocidad de conexión a internet del cliente. La aplicación, como ya expliqué en un anterior apartado, está diseñada para soportar grandes flujos.

## 3.6 Obligaciones del Diseño

### 3.6.1 Estándares cumplidos

Se cumplen los estándares de una aplicación web segura en el frontend y en el backend.

La API tiene el enrutamiento de la información delicada protegida mediante [JWT](#_3.2.1.6_JWT_(Json). Además, mediante [CORS](#_3.2.1.5_Cors) se pueden configurar los dominios externos que pueden acceder al backend para prevenir ataques externos. Los datos de la BBDD están cifrados con [Bcryptjs](#_3.2.1.4_Bycryptjs) y gracias a [Dotenv](#_3.2.1.3_Dotenv) las claves de seguridad se manejan desde un archivo externo para que al exportar y desplegar la aplicación cada uno pueda poner la clave que desee.

Además, también se gestionan los roles para que en el caso de que falle el lado del cliente se puedan manejar.

Por otro lado, en el frontend gracias a [Next-auth](#_3.2.2.1_Next-Auth), manejo el inicio de sesión de usuarios y sus roles. La web está diseñada para que nadie que no esté logueado pueda acceder a ‘/dashboard’ ni a ninguno de sus hijos (‘/dashboard/...’). Con eso consigo que cualquiera pueda acceder a la “home” y al registro o login de usuarios. Además, ninguno de los usuarios sin “home” podrá acceder a ninguno de los apartados de la gente con casa ni viceversa.

### 3.6.1 Limitaciones del hardware

Las únicas limitaciones del hardware vienen dadas por las capacidades de la máquina donde se despliegue la aplicación web.

## 3.6 Atributos

### 3.6.1 Seguridad

Como expliqué en el apartado [‘3.6.1 Estándares cumplidos’](#_3.6.1_Estándares_cumplidos), cumple con toda la seguridad de una aplicación web. Está diseñada de forma segura para los datos y los usuarios.

### 3.6.2 Facilidades de mantenimiento

El mantenimiento será muy sencillo, ya que están separados la BBDD, el frontend y el backend. Además, el lado del cliente se estructura en componentes, por lo que hace mucho más fácil la detección y arreglo del problema.

### 3.6.3 Portabilidad

La aplicación está desarrollada mediante tecnología libre, por lo que podría ser desplegada en cualquier máquina en la que se pueda instalar node y mysql. Se podría incluso separar la API con su BBDD y la parte del front para montarlo en dos máquinas diferentes, ya que el cliente y el back son totalmente independientes.

# Prototipos/Wireframes/Bocetos de las Interfaces

Para la pantalla de login partí de una idea básica en la que se introduzca el usuario y la contraseña.

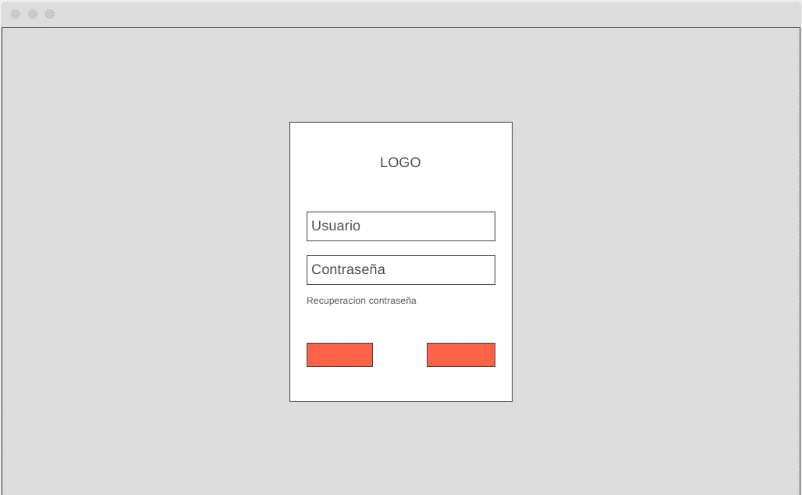


Ilustración 5 Prototipo login

Para el usuario sin home tenía claro desde un inicio que quería tener dos ‘cards’. Una para poder crear una casa y otra para poder unirse a una casa ya existente

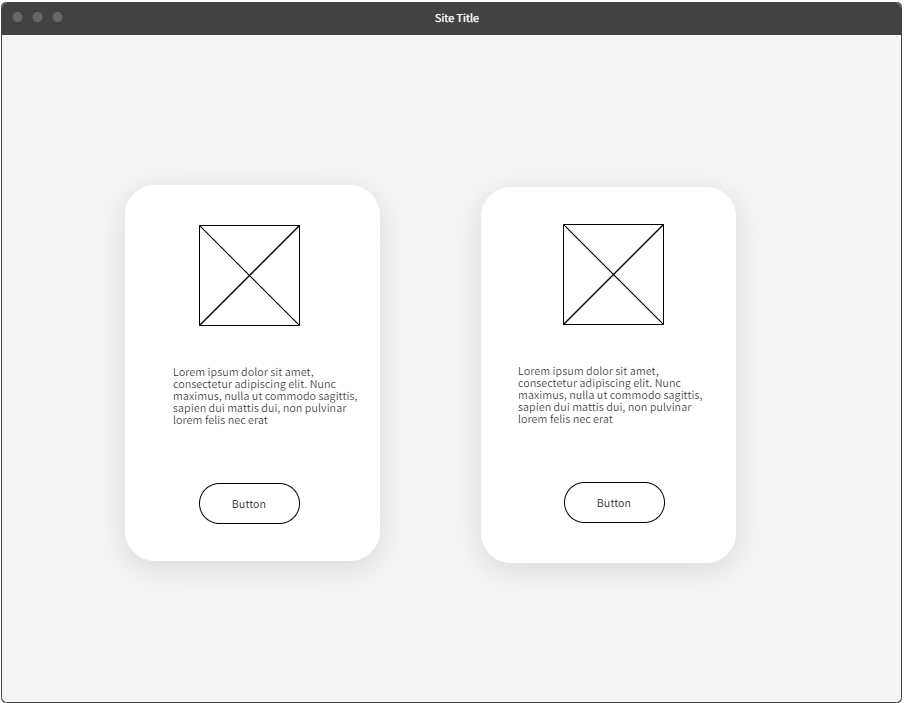


Ilustración 6 Prototipo ventana usuarios sin home

Principalmente pensé en una lista vertical en el que poder ver las tareas (más adelante cambie el formato por una mejora visual).

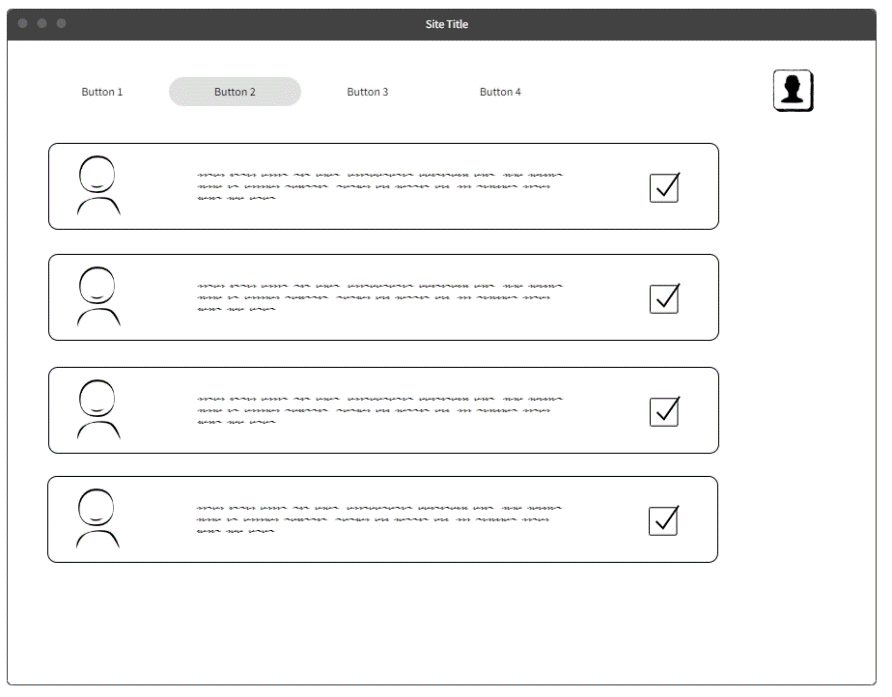


Ilustración 7 Prototipo lista de tareas

# Análisis

## 5.1 Mapa mental inicial

Antes de iniciar el desarrollo de la aplicación desarrollé este mapa mental en el que plasmé las ideas principales que quería llevar a cabo y como quería hacerlas.

![Patrón de fondo

Descripción generada automáticamente](data:image/png;base64,iVBORw0KGgoAAAANSUhEUgAAEVEAABSgCAYAAACIqCNcAACAAElEQVR4XuzcMXJaWdrH4Q7IiMm1Aa2AHWgJWoPWQJETsQHuIWETBKyBVUCmAOkQvqN77c+f+xy5LdkS4sLzVP2qayaZHtu6x8n7/+cfAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAixGPzc27empuq//uvzosRuX/JgAAAAAAAAAAAAAAAAAAAADAD7GfDX8MluQ0jmNz35WXDy//efWj43L9UpxNP/+7df9+3/+9234eatlMB+X/ZwAAAAAAAAAAAAAAAAAAAACgJ34MiTw3d98GRtLkLAdRTtWP0ZXlw7ehmDTufn0Oi1H5awcAAAAAAAAAAAAAAAAAAAAAnEBspoN/jaTkNP8+klIPiOj35bT79uuXJj+PrJS/7gAAAAAAAAAAAAAAAAAAAADAO8VhMYqn5tZQyhdWDqy04zX72bD8vQIAAAAAAAAAAAAAAAAAAACAqxab6aAb52hHOrqxjuW6GvPQ+dWOq+TlQzw3d+3vX/n7CgAAAAAAAAAAAAAAAAAAAAAXKfazYTw1t91gSjfCkXbVOIf6W07bl+bd7287jLOZDso/AwAAAAAAAAAAAAAAAAAAAADQK92QxrfBlHk3sFGObugaWscxTeK5uYvDYlT+GQEAAAAAAAAAAAAAAAAAAACAsxH72TByGkdePnwbzqjGNKRv5bTqxnWemtvYTAflnyUAAAAAAAAAAAAAAAAAAAAAOIkfoynHNHn557YaypDe3rob3zGqAgAAAAAAAAAAAAAAAAAAAMBnasctjKboRP0YVSn/HAIAAAAAAAAAAAAAAAAAAADAu7QjFt2YRTtqUQ9dSKcpp1Ucm/s4LEbln1EAAAAAAAAAAAAAAAAAAAAA+JfYz4bx3NxFTvNqyEI6h3LaxTFNXv45js10UP4ZBgAAAAAAAAAAAAAAAAAAAOAKxWExirx8iJy21WCFdP6tu+Gf/WxY/tkGAAAAAAAAAAAAAAAAAAAA4ILFU3MbxzSJnHavjFJI/awdAmoHgQ6LUflnHgAAAAAAAAAAAAAAAAAAAICei810EDmNX5obTtFV1A6qtENBT81t+fMAAAAAAAAAAAAAAAAAAAAAQE/8azilHJiQrqluOMigCgAAAAAAAAAAAAAAAAAAAEBvtEMR3WBENxzxyqCEdM3ltI28fIjDYlT+7AAAAAAAAAAAAAAAAAAAAADwheKxuTGcIr2z/xtU2c+G5c8UAAAAAAAAAAAAAAAAAAAAACfQDj/EsbnvhiDKcQhJ72398rM0js10UP6sAQAAAAAAAAAAAAAAAAAAAPCB2oGHbughp9UrIxCSPqQ0iafmtvz5AwAAAAAAAAAAAAAAAAAAAOAvxGEx6oYdctrVgw+SPqWctnFs7mM/G5Y/kwAAAAAAAAAAAAAAAAAAAAC8QWymg8hpHMfluhp3kHTacprHU3Nb/pwCAAAAAAAAAAAAAAAAAAAA8Io4LEZxTJPIaVcNOUj62nLaxrG5j/1sWP7sAgAAAAAAAAAAAAAAAAAAAFy9yGn80qoabZB0pqVJPDY35c8yAAAAAAAAAAAAAAAAAAAAwFWJzXQQx+Y+ctrWAw2SetK6HUEqf74BAAAAAAAAAAAAAAAAAAAALlrsZ8M4pskrYwyS+lpOu24UaTMdlD/zAAAAAAAAAAAAAAAAAAAAABcjHpubyGlVjS9IurDSpB1LKr8BAAAAAAAAAAAAAAAAAAAAAL0VOY1f2tZDC5IuunY06bG5Kb8JAAAAAAAAAAAAAAAAAAAAAL0Qm+nAeIqkrnZM5am5Lb8TAAAAAAAAAAAAAAAAAAAAAGepG085NveR064aUpB03bWjSjmNy+8GAAAAAAAAAAAAAAAAAAAAwFkwniLpzRlTAQAAAAAAAAAAAAAAAAAAAM6J8RRJf5wxFQAAAAAAAAAAAAAAAAAAAOArGU+R9GEZUwEAAAAAAAAAAAAAAAAAAABOyXiKpE/LmAoAAAAAAAAAAAAAAAAAAADw2YynSDpJ7ZjKU3NbfoMAAAAAAAAAAAAAAAAAAAAA/ljkNO5GDcqhA0n6zHJaxWNzU36TAAAAAAAAAAAAAAAAAAAAAN6sHS8wniLpy2vHVPazYfmNAgAAAAAAAAAAAAAAAAAAAPil7+Mpq2rIQJK+tDQxpgIAAAAAAAAAAAAAAAAAAAD8p3acoBspqIYLJOlMymkXx+Y+NtNB+Q0DAAAAAAAAAAAAAAAAAAAArlg7RtCNEnTjBK+MFkjSuZXT9qVx+T0DAAAAAAAAAAAAAAAAAAAArlA7QtCNEZQDBZLUh3JaxWNzU37bAAAAAAAAAAAAAAAAAAAAgCsQh8WoGx8oBwkkqZelSWymg/JbBwAAAAAAAAAAAAAAAAAAAFygdmQg8vKhHiCQpJ6X0y6em7vyuwcAAAAAAAAAAAAAAAAAAABckMhp3I0MlMMDknRZreOxuSm/gQAAAAAAAAAAAAAAAAAAAECPxWExipxWrwwNSNIFlyaxmQ7KbyIAAAAAAAAAAAAAAAAAAADQI+14QByb+3pYQJKupJx2L43L7yMAAAAAAAAAAAAAAAAAAADQA/HY3ERO22pQQJKusZxWsZ8Ny28lAAAAAAAAAAAAAAAAAAAAcIZiMx1ETvNqQECS9FJzX343AQAAAAAAAAAAAAAAAAAAgDMST81t5LSrRwMkST+1jsNiVH5DAQAAAAAAAAAAAAAAAAAAgC8U+9kwcpq/MhQgSfplzX1spoPymwoAAAAAAAAAAAAAAAAAAACcWDw3d5HTrh4HkCT9tpy28djclN9WAAAAAAAAAAAAAAAAAAAA4ARiMx1ETqtqEECS9P7y8qH8zgIAAAAAAAAAAAAAAAAAAACfKJ6a28hpV40ASJL+pnUcFqPymwsAAAAAAAAAAAAAAAAAAAB8oNhMB5HT/JXDf0nSh9Xcl99fAAAAAAAAAAAAAAAAAAAA4APEY3MTOe3qY39J0ie0jv1sWH6LAQAAAAAAAAAAAAAAAAAAgD8Qm+kg8vLhlQN/SdJn1g5XPTd35XcZAAAAAAAAAAAAAAAAAAAAeIc4LEZxXK6rw35J0unKad4OWpXfaAAAAAAAAAAAAAAAAAAAAOA34rm5i5x21TG/JOn05bSNx+am/FYDAAAAAAAAAAAAAAAAAAAAr4jNdBA5zasDfknSGdTcl99tAAAAAAAAAAAAAAAAAAAA4CdxWIwip219tC9JOptyWrWDV+U3HAAAAAAAAAAAAAAAAAAAAK5ePDd31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AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHyi/wEomWY/eL099gAAAABJRU5ErkJggg==)

## 5.2 Diagrama EER

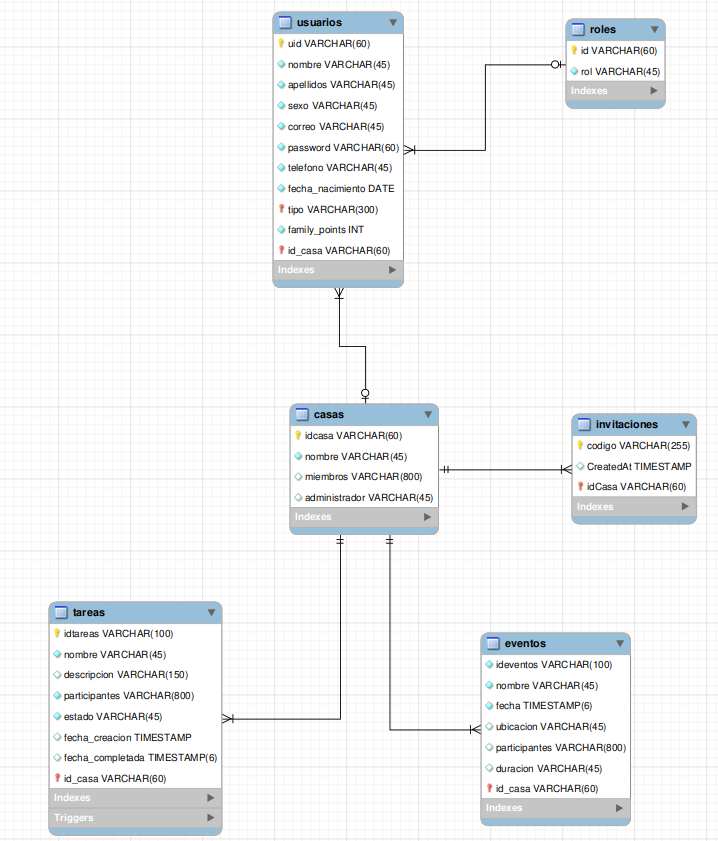


Ilustración 8 Diagrama E/R

## 5.2 Diagrama de Casos de Uso

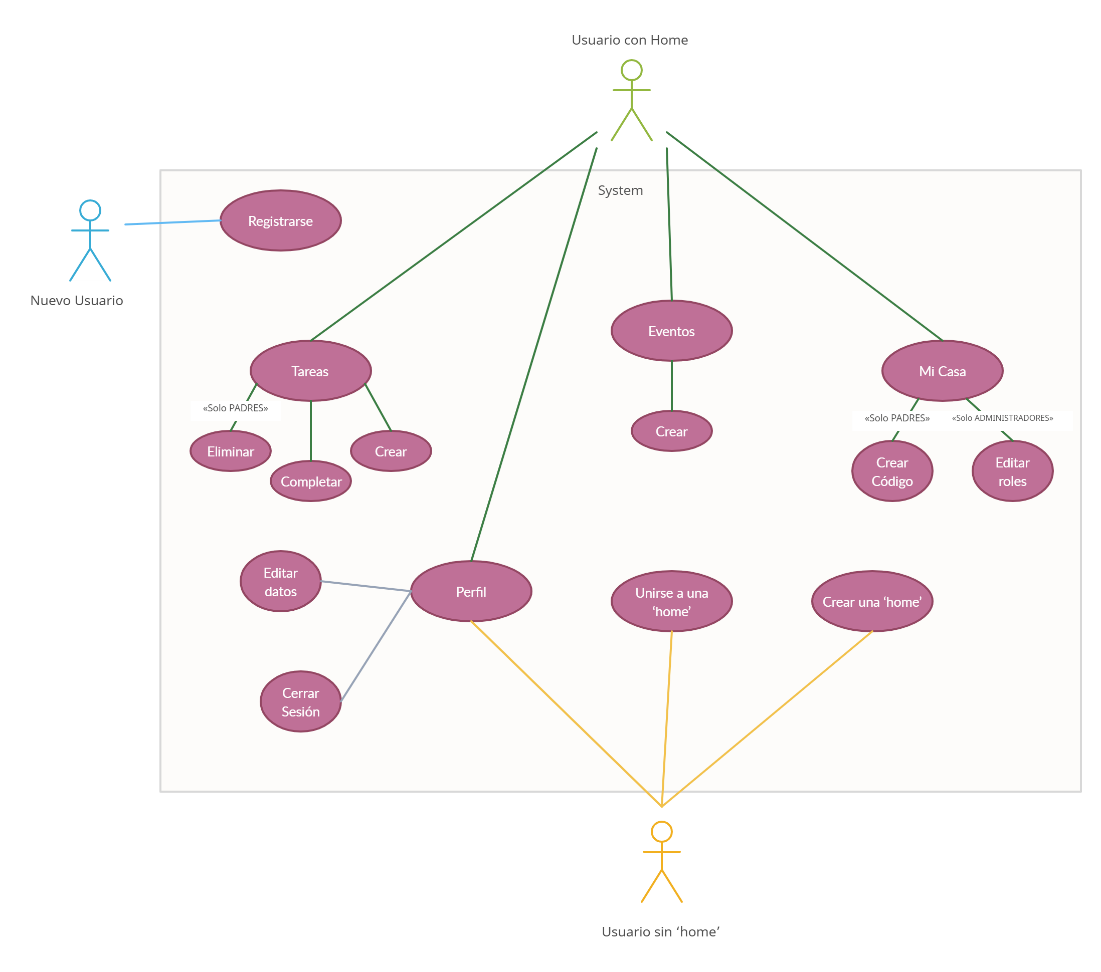


Ilustración 9 Diagrama de Casos de Uso

## 5.3 Tablas BBDD

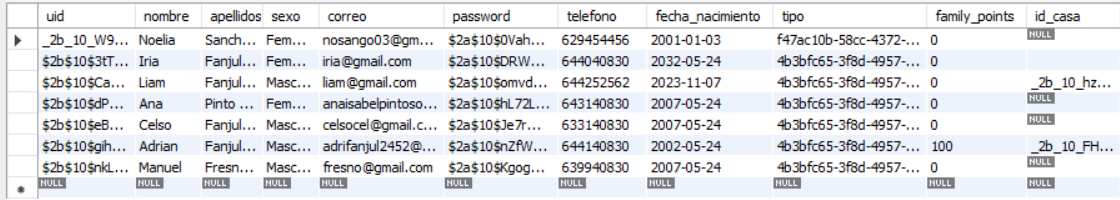


Ilustración 10 Tabla BBDD Usuarios

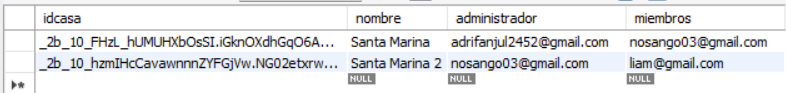


Ilustración 11 Tabla BBDD Casas

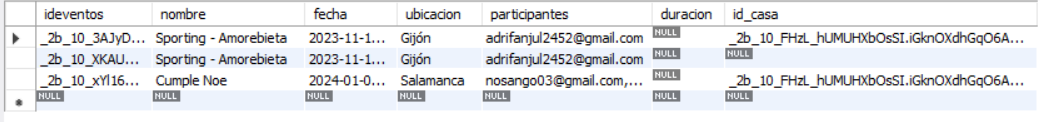


Ilustración 12 Tabla BBDD Eventos

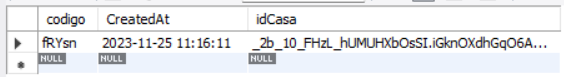


Ilustración 13 Tabla BBDD Invitaciones

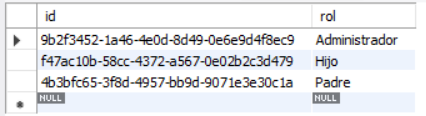


Ilustración 14 Tabla BBDD roles

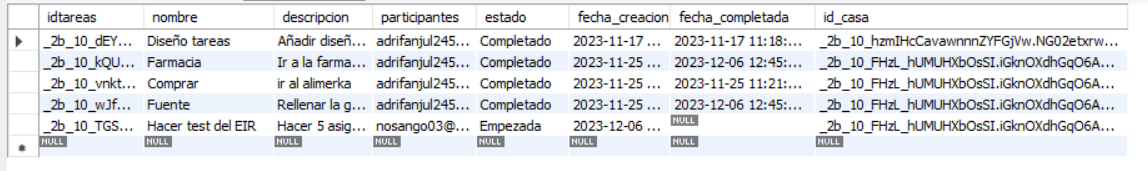


Ilustración 15 Tabla BBDD Tareas

# Diseño

## 6.1 Introducción

El diseño de mi aplicación se basa en una arquitectura a tres niveles. La arquitectura de tres niveles es un modelo de diseño para el desarrollo de aplicaciones que divide la aplicación en tres componentes interrelacionados y distintos. Cada una de estas capas tiene responsabilidades específicas y está diseñada para ser independiente de las demás. Esta separación permite un desarrollo más modular y facilita la escalabilidad y el mantenimiento a largo plazo de la aplicación. La ventaja de la arquitectura de tres niveles radica en la separación clara de responsabilidades. Cada capa puede ser desarrollada, probada y mantenida de manera independiente. Además, este enfoque permite cambiar o actualizar una capa sin afectar directamente a las otras, siempre y cuando se mantengan las interfaces definidas entre ellas. Una de las ventajas de la capa de presentación y capa de negocio que elegí es que las dos están basadas en JavaScript.

## 6.2 Capa de presentación

Este es el nivel en el que los usuarios interactúan directamente con la aplicación. Contiene la interfaz de usuario y maneja la presentación de la información. En una aplicación web, esta capa generalmente incluye la interfaz gráfica del usuario (GUI) o la interfaz de usuario web. En mi caso sería el frontend construido con [Next.js](#_3.2.2_Next.js). Es muy cómodo a la hora de desarrollar gracias a su enrutamiento dinámico y demás ventajas que expliqué anteriormente.

## 6.3 Capa Lógica de Negocio

Aquí se encuentra la lógica central de la aplicación. Este nivel se encarga de procesar los datos, aplicar la lógica de negocio, realizar operaciones de seguridad y autenticación, y gestionar el flujo de la aplicación. En una arquitectura a tres niveles típica, este nivel puede estar compuesto por un servidor de aplicaciones, un conjunto de servicios o una API. En el caso de mi aplicación esta capa la forma mi API REST basada en [Node.js](#_3.2.1_Node.js). Es la encargada de recoger las peticiones de la capa de presentación y manejar la BBDD. Funciona como un intermediario para que el usuario no tenga relación directa con el almacenamiento de los datos.

## 6.3 Capa de Persistencia o Datos

Este nivel se ocupa del almacenamiento y recuperación de datos. La base de datos almacena la información necesaria para la aplicación y proporciona mecanismos para acceder y manipular esos datos. Las operaciones de lectura y escritura en la base de datos son gestionadas por la capa de lógica de negocio. La capa de almacenamiento de datos actúa como el repositorio central donde la aplicación guarda y recupera información. Proporciona la base para que la aplicación sea eficiente, segura y capaz de evolucionar con el tiempo, siendo esencial en el diseño de sistemas robustos y escalables. En esta app elegí [MySQL](#_3.2.3_MySQL) porque prefería una BBDD Relacional.

# Implementación

## 7.1 Tecnologías usadas en el desarrollo del proyecto

Para el desarrollo de esta aplicación, no fue necesario desplegar un servidor como XAMPP, ya que Node.js y Next.js proporcionan un entorno integrado. Node.js actúa como nuestro servidor en el backend, manejando la lógica de negocio, mientras que Next.js nos ofrece un servidor de desarrollo incorporado que facilita la construcción y prueba de la capa de presentación. Esto elimina la necesidad de configurar y gestionar un servidor separado, simplificando el proceso de desarrollo y permitiéndonos centrarnos en la construcción de la aplicación de manera eficiente. Las tecnologías usadas en el desarrollo del proyecto fueron las siguientes:

* **Visual Studio Code**:

Fue el entorno de desarrollo principal donde se llevó a cabo toda la programación del proyecto. Esta plataforma proporcionó las herramientas y recursos necesarios para la creación, implementación y prueba de todas las funcionalidades de la aplicación. Desde la redacción del código hasta la depuración y optimización, este entorno se convirtió en el núcleo central de la actividad de desarrollo.

* **MySQL Workbench**:

Fue utilizado con el fin de generar la base de datos, exportar sus scripts, y establecer triggers, como el que añade la fecha de completado al actualizar el estado de una tarea a "Completada".

* **Postman**:

Su función principal consistió en validar el funcionamiento de la API REST mediante la ejecución de consultas. Este enfoque se implementó con el propósito de discernir y separar los errores provenientes del backend y el frontend, lo que permitió abordar y gestionar los problemas de manera más eficiente y simplificada.

* + **CSS**:

Todos los estilos visuales aplicados a la interfaz de la aplicación se han definido y organizado dentro de estas hojas de estilo. Estas hojas de estilo, en su conjunto, actúan como un conjunto detallado de instrucciones visuales que dictan cómo se deben presentar los elementos HTML en la aplicación. Desde la elección de colores y fuentes hasta la disposición de los elementos en la página, cada detalle estilístico ha sido cuidadosamente diseñado y estructurado en estas hojas de estilo para garantizar una apariencia coherente y agradable a lo largo de la aplicación. La centralización de la paleta de colores a través de variables en el archivo globals.css destaca como una estrategia efectiva para facilitar cambios visuales de manera rápida y coherente en toda la aplicación.

## 7.2 Descripción del Proyecto

La descripción del proyecto se basa en las siguientes características:

* Uso de Node para la capa de presentación y de Negocio
  + Next.js para la de presentación
  + Node.js para la de negocio
* Uso de VSCode para el desarrollo de todo el código de la app
* Todos los datos están almacenados en MySQL en diferentes tablas
* CSS como herramienta de diseño para la tipografía y paleta de colores

## 7.3 Capa de presentación

La capa de presentación ha sido elaborada en Visual Studio Code debido a las extensiones especializadas y las facilidades integradas que ofrece para gestionar eficientemente el código. Esta elección se basa en la capacidad de VSCode para proporcionar un entorno de desarrollo intuitivo y rico en funciones que optimiza la productividad del equipo.

La utilización de Next.js fue fundamental para compilar el código sin necesidad de depender de un servidor local durante el desarrollo. Next.js facilita la construcción y ejecución de aplicaciones web React, ofreciendo características como el renderizado del lado del servidor (SSR) y el renderizado del lado del cliente (CSR), lo que mejora la velocidad de carga y la eficiencia de la aplicación.

El lenguaje principal empleado en esta capa de presentación es TypeScript, que aporta beneficios significativos al desarrollo al agregar tipado estático a JavaScript. Esto no solo proporciona un código más seguro y menos propenso a errores, sino que también mejora la calidad y mantenibilidad del código a medida que el proyecto evoluciona.

En términos de estilos, CSS ha sido la elección principal para la definición de la presentación visual de la aplicación. La capacidad de utilizar variables, selectores avanzados y otras características de CSS proporciona un control detallado sobre el diseño y la apariencia de la interfaz de usuario, contribuyendo así a una experiencia visual coherente y estéticamente agradable para los usuarios finales.

En resumen, la combinación de herramientas como VSCode, Next.js, TypeScript y CSS se ha seleccionado estratégicamente para optimizar la eficiencia y calidad del desarrollo en la capa de presentación de la aplicación.

## 7.4 Capa de Negocio o Lógica de la Aplicación

La construcción de esta capa, al igual que la de presentación, se llevó a cabo en Visual Studio Code (VSCode). La adopción de Node.js fue esencial para prescindir de la necesidad de un servidor local, proporcionando una infraestructura ágil y eficiente para el desarrollo.

El aprovechamiento de las amplias [librerías y frameworks](#_3.2.1.1_Express) disponibles en Node.js fue clave para enfrentar y optimizar todos los desafíos encontrados durante el desarrollo. Estas herramientas proporcionaron soluciones robustas y eficaces, permitiendo abordar aspectos como la lógica de negocio, la gestión de datos y la optimización del rendimiento de manera efectiva.

La elección de VSCode como entorno de desarrollo y Node.js como plataforma subraya la importancia de la eficiencia y la capacidad de respuesta en el manejo de las complejidades inherentes al desarrollo de la capa de negocio. Estas decisiones estratégicas han contribuido a la creación de una capa de negocio sólida, capaz de abordar y optimizar las diversas dificultades encontradas a lo largo del proceso de desarrollo de la aplicación.

## 7.4 Capa de Persistencia o Datos

La construcción de esta capa, al igual que la de presentación, se llevó a cabo en Visual Studio Code (VSCode). La adopción de Node.js fue esencial para prescindir de la necesidad de un servidor local, proporcionando una infraestructura ágil y eficiente para el desarrollo.

# Evaluación

## 8.1 Introducción

Para este proyecto se realizaron validaciones de los enlaces, de los estilos de las páginas, de navegador (aunque no debería de haber ningún problema gracias a [babael](#_3.2.1.9_Babel)) , de resolución para comprobar que todo sea responsivo y de formularios. Además, se comprobó su funcionamiento con varios usuarios de prueba que no formaron parte del desarrollo del proyecto.

## 8.2 Validación de Páginas de Estilo

Se realizaron validaciones de las páginas de estilo en la página: ‘https://jigsaw.w3.org/css-validator/#validate\_by\_upload+with\_options’

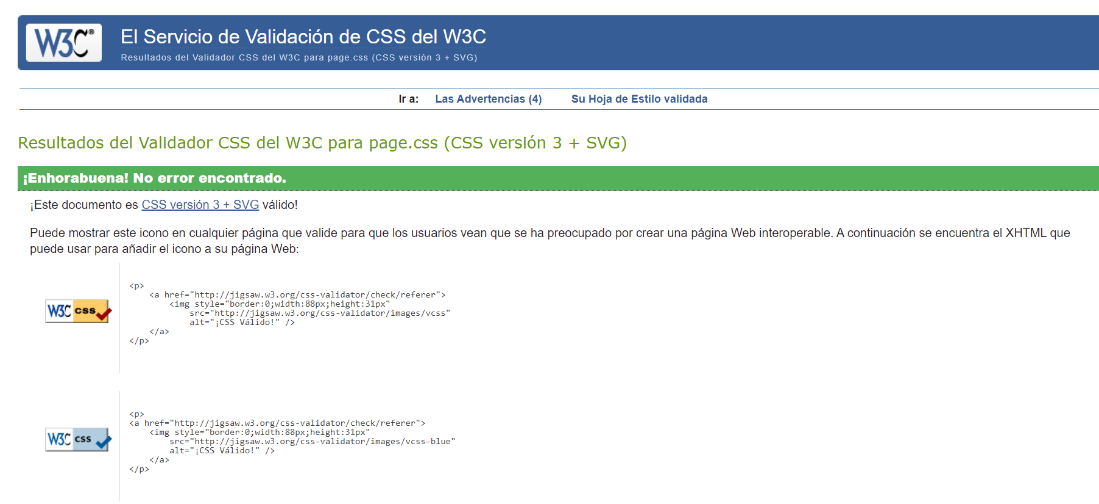


Ilustración 16 Captura validación hojas de estilo

## 8.3 Validación de Enlaces

Intenté validar los enlaces desde el validador de w3c pero solo estaba disponible poder validarlo introduciendo una url y no admite el localhost (al tenerlo en local no puedo hacer otra cosa). Como no pude hacerlo de esa manera los comprobé uno a uno.

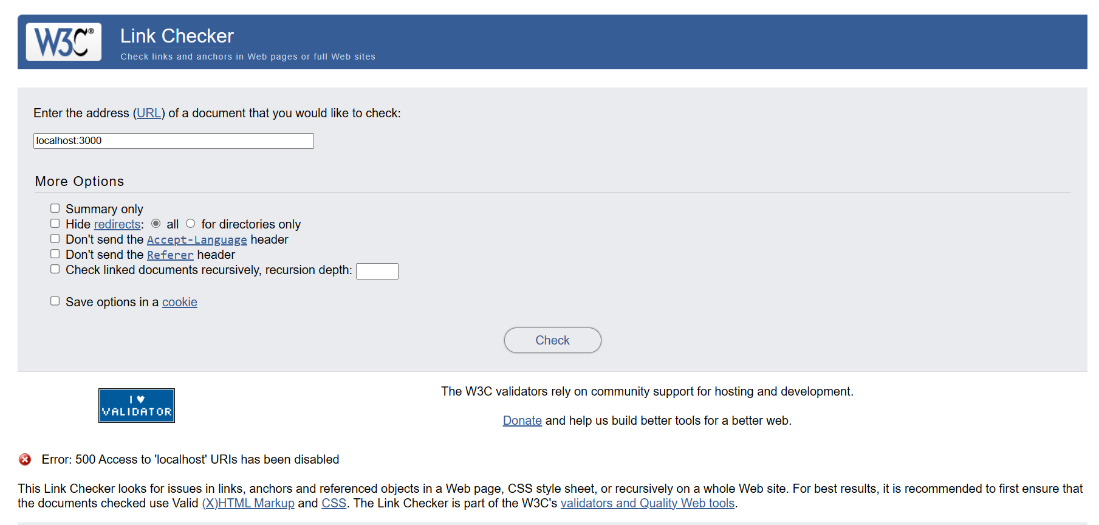


Ilustración 17 Captura validación enlaces

## 8.4 Validación de la Resolución



Ilustración 18 Comprobación web responsiva grande



Ilustración 19 Comprobación web responsiva pequeña

## 8.5 Validación de Navegadores

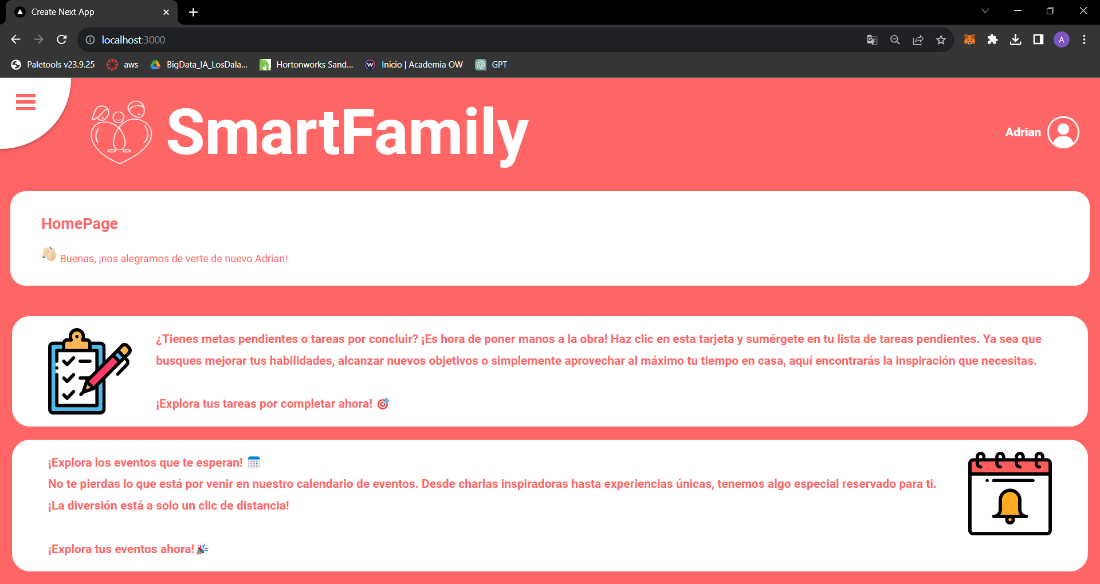


Ilustración 20 Capturaa Google Chrome

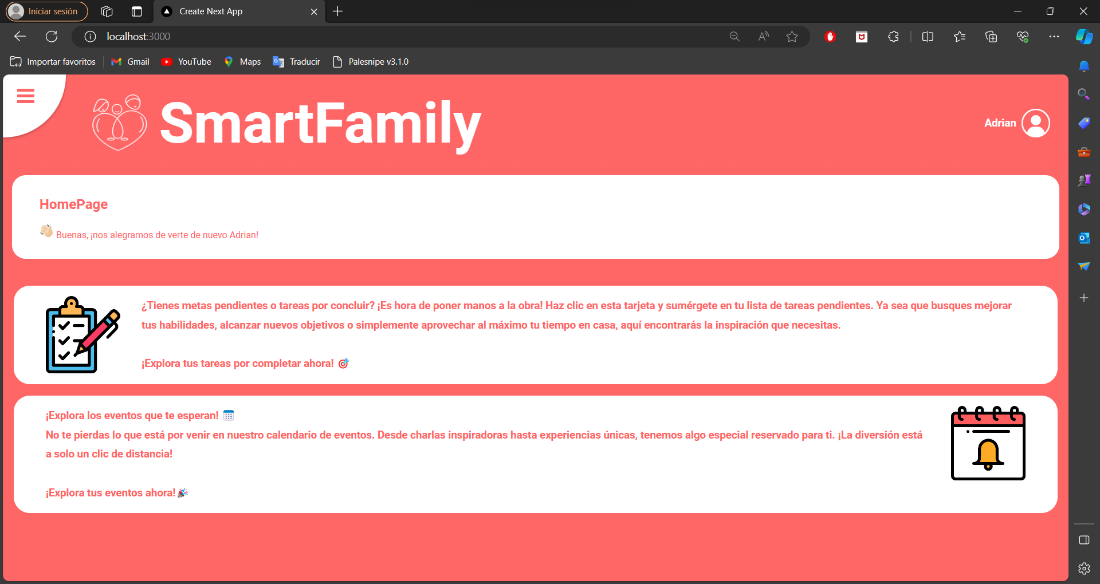


Ilustración 21 Captura Microsoft Edge

## 8.4 Otras Validaciones

### 8.4.1 Validación Formularios

Hay validación de los formularios que se muestran de manera visual para el usuario

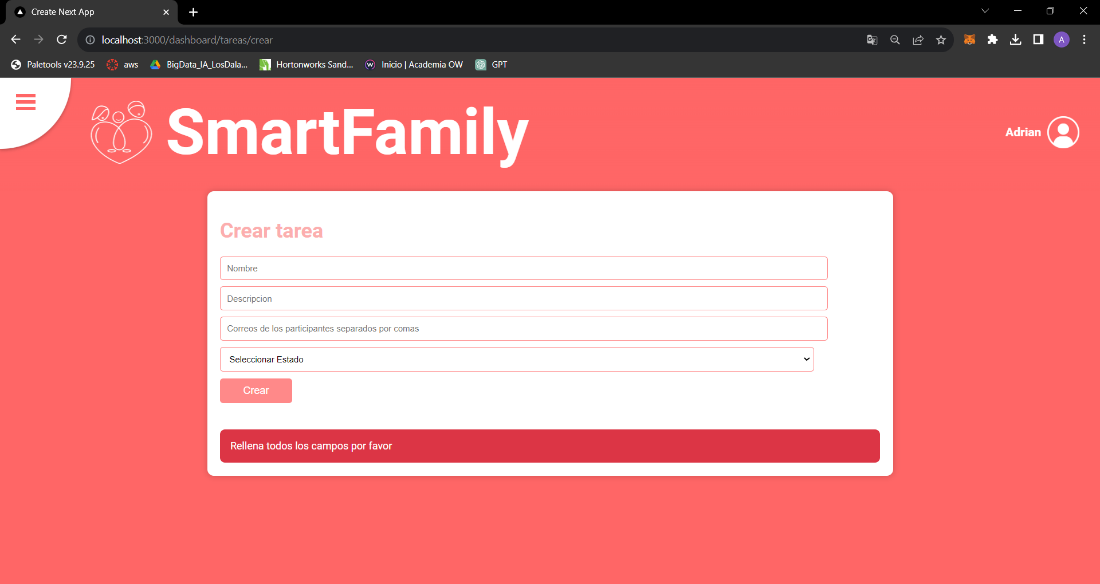


Ilustración 22 Validación campos nulos

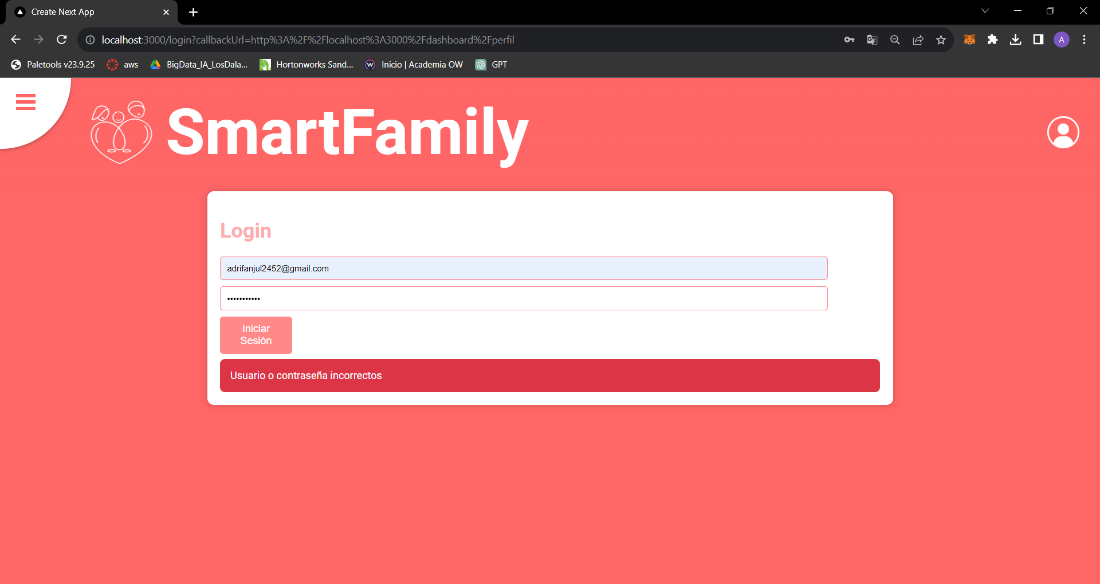


Ilustración 23 Validación campos erróneos

# Conclusión

## 9.1 Valoración Personal del Trabajo Realizado

Mi experiencia personal durante el desarrollo de este proyecto ha sido positiva en general. A pesar de trabajar con tecnologías que no había utilizado anteriormente, como Node.js y Next.js, me sentí cómodo y logré adaptarme con relativa facilidad. A lo largo del proceso, también exploré otras tecnologías, entre ellas React, pero finalmente opté por estas dos anteriores debido a su excelente curva de aprendizaje y su idoneidad para los objetivos del proyecto.

Considero que la elección del tema para el proyecto fue acertada, especialmente por las ideas que surgieron durante el desarrollo y que detallaré en la [siguiente sección](#_9.2_Posibles_Ampliaciones). Aunque personalmente no estoy al tanto de ideas similares, he escuchado menciones de proyectos relacionados en el ámbito, lo que sugiere que la aplicación podría ser una propuesta valiosa para el desarrollo.

Este proyecto ha sido una muy buena oportunidad para adentrarme en nuevas tecnologías que actualmente están en auge en el ámbito empresarial. A lo largo del proceso, he ampliado significativamente mi conjunto de habilidades y conocimientos, lo que ha contribuido a mi crecimiento profesional y a mi capacidad para abordar proyectos más avanzados en el futuro.

## 9.2 Posibles Ampliaciones

### 9.2.1 FamilyPoints

Esta funcionalidad se encuentra en proceso de implementación, ya que los primeros pasos esenciales han sido iniciados y están presentes tanto en la base de datos como en la información del usuario almacenada en sesión. A pesar de que aún no está completamente desarrollada, se ha establecido una base sólida para su continuación y finalización en fases posteriores del proyecto.

La idea principal consistía en proporcionar una recompensa al completar tareas, especialmente orientado a incentivar a los más jóvenes a realizar sus responsabilidades diarias en el hogar. En el proceso de creación de una tarea, se contemplaba que el padre asignara la recompensa correspondiente.

Este sistema de recompensas estaría bajo la administración del encargado de la casa, quien podría establecer recompensas con valores definidos. Estas recompensas se registrarían en una sección llamada "Mis Recompensas", acumulando aquellas que aún no han sido canjeadas o realizadas.

En una posible expansión de esta funcionalidad, se consideraría la incorporación de un sistema de cofres para obtener recompensas de forma aleatoria. Cada recompensa tendría asignada una rareza para equilibrar la aleatoriedad de los cofres, asegurando que las recompensas más raras o difíciles de conseguir no aparezcan con demasiada frecuencia. Esta adición podría agregar un elemento lúdico y emocionante al sistema de recompensas, incentivando aún más la participación y cumplimiento de tareas en el hogar.

### 9.2.2 Lista de la Compra

La idea a desarrollar es crear un apartado de la lista de la compra en la que poder añadir elementos a comprar. La idea se me ocurrió por la típica costumbre de la gente de enviar al WhatsApp los productos a comprar. Sería una buena idea que todos lo tuviesen siempre al alcance de la mano.

### 9.2.3 Calendario de Eventos y Tareas

La ampliación consiste en la implementación de un calendario dinámico, con la posibilidad de conectarlo potencialmente con Google Calendar. La visión es ofrecer a los usuarios un resumen claro y conciso de eventos y tareas pendientes directamente desde el menú principal de la aplicación, mejorando significativamente la experiencia del usuario y agregando una dimensión más global a la funcionalidad del sistema.

Además de facilitar una gestión más eficiente del tiempo, esta adición enriquecería la experiencia del usuario al proporcionar una herramienta integral que consolida información clave en un solo lugar. El acceso rápido a eventos y tareas pendientes directamente desde el menú principal contribuiría a la practicidad y utilidad general de la aplicación.

### 9.2.4 Gráficas para Visualización de Contenido

Desarrollar gráficas dinámicas sería muy positivo para mejorar la visualización de datos de manera más eficiente y comprensible. Un ejemplo claro de esto es la implementación de gráficas de tarta para representar de manera intuitiva las tareas pendientes, ofreciendo una perspectiva visual inmediata sobre la distribución de las responsabilidades. Otra posibilidad sería incorporar gráficas de barras para visualizar el progreso individual de cada miembro del equipo en relación con las tareas asignadas.

Estas representaciones gráficas no solo añadirían un elemento visual atractivo a la aplicación, sino que también facilitan una comprensión más rápida y precisa de la información. La capacidad de evaluar de un vistazo el estado de las tareas pendientes y el rendimiento individual de los miembros del equipo aportaría un valor significativo al usuario, mejorando la experiencia global de la aplicación y permitiendo una toma de decisiones más informada.

### 9.2.5 Mapa Interactivo

La integración de un mapa interactivo que muestre la ubicación de los integrantes de la casa se perfila como una adición sumamente positiva para la aplicación. Esta funcionalidad no solo añadiría un elemento visualmente atractivo, sino que también ofrecería una herramienta práctica para mejorar la coordinación y la comunicación de los miembros de la “home”.

La inclusión de un botón de emergencias en el mapa proporcionaría una capa adicional de seguridad y respuesta rápida en situaciones críticas. Esta funcionalidad podría ser vital para gestionar eficientemente eventos inesperados y garantizar la tranquilidad de los miembros de la casa.

En términos de usabilidad, la combinación de un mapa interactivo y un botón de emergencias fortalecería significativamente la aplicación, proporcionando una solución integral que no solo facilita la localización de los integrantes de la casa en tiempo real, sino que también establece un protocolo claro para situaciones de emergencia.

En resumen, la implementación de estas características ampliaría considerablemente la utilidad y versatilidad de la aplicación, mejorando la experiencia global del usuario y su capacidad para abordar diversas necesidades y escenarios.

### 9.2.6 Chatbot

El desarrollo de un chatbot interactivo se ha pensado como una función adicional, con la idea de integrar la API de Chat GPT con la base de datos existente. Este chatbot tendría la capacidad de proporcionar respuestas y asistencia en relación con tareas y eventos dentro de la aplicación.

Imaginemos un escenario en el que los usuarios puedan interactuar con el chatbot para obtener información instantánea sobre sus responsabilidades pendientes, eventos programados y otras consultas relacionadas con la aplicación. La integración con la base de datos permitiría al chatbot acceder a datos actualizados y relevantes, proporcionando respuestas precisas y personalizadas.

Además de brindar información práctica, el chatbot podría extender su funcionalidad para sugerir tips y recordatorios útiles. Esto no solo añadiría un componente interactivo y amigable a la aplicación, sino que también facilitaría a los usuarios obtener información de manera rápida y eficiente.

La incorporación de un chatbot interactivo potenciaría la experiencia del usuario al proporcionar una herramienta de comunicación intuitiva y eficaz, mejorando así la accesibilidad y utilidad global de la aplicación.

### 9.2.7 App Móvil

Esta idea viene de la mano de no tener que entrar en internet para poder conectarte desde el dispositivo que tengas siempre a mano. Poder acceder a la app más ráido mejoraría mucho la experiencia del usuario.

# Análisis de costes

Para este proyecto se utilizó tecnología de uso libre y de código abierto, por lo que el desarrollo del mismo no supuso ningún costo. En cuanto al material de hardware se necesitó utilizar un ordenador portátil y un ratón. No hay ningún gasto de marketing, de dominios, de SSL ni de hosting debido a que es un proyecto que se desarrolla en local y que no se va a lanzar al público todavía.

A continuación, detallo en una lista los gastos que me supuso la aplicación:

* Materiales
  + Ordenador portátil: 600€
  + Ratón: 20€
* Entorno de desarrollo
  + Visual Studio Code: GRATUITO
* Tecnologías
  + MySQL: GRATUITO
  + Node.js y sus extensiones: GRATUITO
  + Next.js y sus extensiones: GRATUITO
* Hosting
  + Despliegue local: GRATUITO
* Tiempo de desarrollo
  + 160h de desarrollo (12.82€/h): 2051.2€
* Dominio y SSL
  + Ninguno: GRATUITO
* Marketing
  + Ninguno: GRATUITO

TOTAL: 2671.2€

# Posibilidades de financiación

Una vez averiguados los costes me decanto por una financiación propia. Esto es debido a que el mayor gasto es el tiempo de desarrollo y podría ir desarrollando poco a poco las posibles ampliaciones.

A parte de la financiación propia, buscaría ayudas y subvenciones para poder llegar a ampliar el proyecto. Además, en esa posibilidad futura de lanzarlo al mercado, se podría implementar una pequeña suscripción familiar para poder asumir los costes de marketing, hosting y el resto de que detallé en el anterior apartado que no pago por desarrollarlo en local.

El riesgo sería bajo ya que no se necesitaría mucho capital a la hora de desarrollar el proyecto, lo más costoso sería el llevarlo al público.

Ventajas:

* **Control Financiero**

Financiar el proyecto con recursos propios me proporciona un mayor control sobre la dirección del proyecto sin depender de inversores externos.

* **Desarrollo Gradual:**

La capacidad de desarrollar el proyecto poco a poco me permite adaptarte a las necesidades y posiblemente reducir riesgos.

* **Bajo Riesgo Inicial:**

Al financiar el desarrollo con recursos propios, el riesgo inicial es bajo, especialmente si puedo manejar el tiempo y los costos de manera eficiente.

* **Exploración de Ayudas y Subvenciones:**

Buscar ayudas y subvenciones complementa mi financiación propia y puede ser una estrategia efectiva para ampliar el proyecto.

* **Modelo de Suscripción Futura:**

La idea de implementar una suscripción familiar para cubrir costos futuros es una estrategia válida y sostenible.

* **Flexibilidad y Adaptabilidad:**

Financiar internamente me brinda la flexibilidad de ajustar el proyecto según las necesidades del mercado y los usuarios.

* **Aprender a lo Largo del Camino:**

Desarrollar gradualmente me permite aprender de la experiencia y ajustar tu enfoque a medida que avanzas.

# Plan de producción

A continuación detallo los principales puntos del plan de producción:

* **Entender los Requisitos del Producto:**

La aplicación web permitirá a las familias organizar y coordinar tareas, eventos y comunicación.

* **Diseñar el Proceso de Producción:**

Desarrollar la aplicación en fases: inicio de sesión, gestión de tareas, calendario de eventos y comunicación familiar.

* **Estimar la Demanda:**

Se deberían realizar encuestas o estudios de mercado en un futuro para estimar la demanda futura para poder lanzarla al mercado.

* **Implementar Estrategias de Producción Eficientes:**

Se utilizaron metodologías ágiles para un desarrollo rápido y adaptativo. Antes de iniciar el proyecto, se llevó a cabo un estudio con las diferentes tecnologías que se podían utilizar y la curva de aprendizaje de cada una

* **Garantizar la Calidad del Producto:**

Integrar pruebas automatizadas y manuales para garantizar la calidad del código y la experiencia del usuario. A parte de utilizar validadores webs y comprobar personalmente el correcto funcionamiento de la página, se utilizó a usuarios que externos al desarrollo de la aplicación para corroborar el funcionamiento y la calidad.

* **Planificación de la Producción a Corto y Largo Plazo:**

Desarrollar actualizaciones periódicas y nuevas funciones a lo largo del tiempo según las necesidades y comentarios de los usuarios.

# Plan de Recursos Humanos

En el caso de necesitar un equipo de recursos humanos por la densidad del proyecto, se llevaría a cabo los siguientes apartaados:

* **Determinar las Necesidades de Recursos Humanos:**

En un futuro se necesitarían desarrolladores web, diseñadores de UX/UI, especialistas en marketing y soporte al cliente.

* **Definir la Estructura Organizativa:**

En el caso de tener la estructura del anterior apartado, se deberían establecer equipos claros para desarrollo, diseño, marketing y soporte.

* **Reclutamiento y Selección:**

Publicar ofertas de trabajo y realizar entrevistas para reclutar talento técnico y no técnico en el caso de necesitarlo.

* **Gestión del Rendimiento:**

Establecer evaluaciones periódicas del rendimiento y metas claras para cada empleado.

* **Compensación y Beneficios:**

Ofrecer salarios competitivos, beneficios como seguros de salud y opciones de trabajo remoto.

* **Clima Laboral y Cultura Corporativa:**

Fomentar una cultura centrada en la colaboración, la innovación y el equilibrio entre trabajo y vida personal. Lo principal sería el bienestar y felicidad del trabajador porque acaban siendo más productivos

* **Planificación de la Sucesión:**

Identificar líderes potenciales y desarrollar planes de sucesión.

* **Gestión de Conflictos:**

Establecer canales efectivos para abordar conflictos y fomentar la comunicación abierta.

* **Bienestar del Empleado:**

Implementar programas que promuevan el bienestar físico y mental de los empleados. Jornadas de teamworking me parecerían perfectas para este apartado.

# Plan de riesgos laborales

El Plan de Riesgos Laborales para nuestra aplicación web familiar se centra en garantizar la seguridad y salud tanto de nuestros usuarios como de nuestro equipo de desarrollo. Identificamos dos riesgos principales: la seguridad cibernética y la ergonomía.

Para abordar la seguridad cibernética, implementaremos medidas como el cifrado de datos, la autenticación de dos factores y auditorías periódicas. Para mitigar el riesgo ergonómico, incorporaremos recordatorios de descanso visual y opciones de personalización para adaptarse a las preferencias individuales de los usuarios. La formación sobre seguridad cibernética y consejos ergonómicos será fundamental, respaldada por la creación de un comité de seguridad digital y la incentivación de los usuarios para informar sobre problemas de usabilidad.

Además, realizaremos evaluaciones periódicas del plan, garantizando el cumplimiento normativo y promoviendo una cultura de seguridad digital entre todos los involucrados. Este enfoque holístico busca no solo abordar los riesgos directos de la aplicación, sino también promover un entorno digital saludable y sostenible.

# Bibliografía

Web en la que realicé los prototipos:

<https://wireframe.cc/jLMIEo>

Web en la que realicé el diagrama de casos de uso:

<https://app.creately.com/>

# Despliegue de la Aplicación

## 11.1 BBDD

En la carpeta BBDD hay un script mysql que se deberá introducir en una BBDD llamada smartfamily

## 11.2 Despliegue API

Se deberá seguir el archivo INSTALAR.TXT:

1. Iniciar proyecto node

Comando: npm init -y

2. Instalar:

-> Express: Poder crear un servidor web wn MYSQL

-> Promise-MYSQL: Crear una conexión asíncrona con una BBDD

-> Dotenv: Manejar variables de entorno

-> Bcryptjs: Cifrado de datos

-> Cors: Comunicar con otros servidores

-> JWT(jsonwebtoken): Manejo de tokens

-> Helmet: Aplica con reglas de seguridad

-> UUID: Crear id

Comando: npm i dotenv express promise-mysql bcryptjs cors jsonwebtoken helmet uuid

3. Instalar en modo desarrollo:

-> @babel/cli: --|

-> @babel/node: |-> Babel sirve para convertir codigo de JS moderno a código 2015+ para que pueda ser compilado por todos los navegadores

-> @babel/core: |

-> @babel/present-env: --|

-> Morgan: Ver peticiones al servidor por consola

-> Nodemon: Poder ver todos los cambios actualizados en directo

Comando: npm i @babel/cli @babel/core @babel/node @babel/preset-env morgan nodemon -D

4. Crear en el proyecto un archivo llamado '.babelrc' con el siguiente contenido:

{

// Configura BABEL con preset-env

"presets":["@babel/preset-env"]

}

5. Crear un archivo llamado '.env' con las variables de entornoque usaremos. Ejemplo:

HOST=localhost

DATABASE=smartfamily

USER=api

PASSWORD=Apiprueba2023

6. Crear carpeta build con los archivos de babel

Comando: npm run build

7. Arrancar servidor en modo desarrollo

Comando: npm run dev

8. Arrancar servidor:

Comando: npm start

## 11.3 Despliegue FRONT

Se deberá seguir el archivo Instalar.md:

1. Instalar estas dependencias:

npm install next-auth @uiball/loaders swiper

2. Crear un archivo .env con eate contenido:

NEXT\_PUBLIC\_BACKEND\_URL=http://localhost:4000/api

NEXTAUTH\_SECRET=no.utilizar.en.producción

3. Crear un archivo gitignore con el siguiente contenido:

# See https://help.github.com/articles/ignoring-files/ for more about ignoring files.

# dependencies

/node\_modules

/.pnp

.pnp.js

# testing

/coverage

# next.js

/.next/

/out/

# production

/build

# misc

.DS\_Store

\*.pem

# debug

npm-debug.log\*

yarn-debug.log\*

yarn-error.log\*

# local env files

.env\*.local

# vercel

.vercel

# typescript

\*.tsbuildinfo

next-env.d.ts

# Manual de Usuario

Las funciones de la aplicación que puedan llevar a cabo cada usuario dependen del rol que tenga cada uno. Estos pueden ser usuario sin ‘home’, hijo, padre y administrador.

Las **funciones globales** las tienen todos los usuarios. Son las siguientes:

* **Pantalla de login**:
  + Iniciar sesión: Consiste en acceder a la aplicación con los datos de tu cuenta personal
  + Registrarse: Consiste en crear un nuevo usuario en la aplicación

Las **funciones de los usuarios sin ‘home’** son las siguientes:

* **Header**:
  + Menú: Despliega un menú burger
  + Usuario: Accede a la página en la que se visualizan los datos de tu usuario
* **Menú**:
  + Home: Accede a la pantalla home
  + Unirse a una casa: Accede a la pantalla para introducir el código de invtación
  + Crear una casa: Accede a la pantalla para crear una nueva casa
* **Home**:
  + Botón ‘CREAR CASA’: Al hacer click te redirecciona a la página donde puedes crear una casa
  + Botón ‘UNIRSE A UNA CASA’: Al hacer click te redirecciona a la página donde puedes introducir un código de invitación
* **Pantalla crear casa**
  + Formulario: Introduciendo el nombre y pulsando en el botón de crear casa, podrás empezar a disfrutar de todas las ventajas de tener tu propia ‘home’
* **Pantalla unirme a una casa**
  + Formulario: Introduciendo el código de invitación y pulsando el botón del formulario podrás entrar en la ‘home’ del código

Las **funcionalidades de los hijos** son las siguientes:

* **Header**:
  + Menú: Despliega un menú burger
  + Usuario: Accede a la página en la que se visualizan los datos de tu usuario
* **Menú**:
  + Home: Accede a la página principal
  + Mi Casa: Accede a la página en la que se visualizan los datos de tu ‘home’
  + Tareas: Accede a la página en la que se manejan las tareas
  + Eventos: Accede a la página en la que se manejan los eventos
  + Perfil: Accede a la página en la que se visualizan los datos de tu usuario
  + Cerrar sesión: Cierra sesión de tu cuenta de usuario
* **Home**:
  + Tarjeta tareas: Al pulsar en ella te redirecciona a la página donde puedes gestionar las tareas
  + Tarjeta eventos: Al pulsar en ella te redirecciona a la página donde puedes gestionar los eventos
* **Mi Casa**:
  + Crear código de invitación: Crea un código de invitación
* **Tareas**:
  + Carrusel: Se visualizan las tareas en un carrusel que se puede mover arrastrando las tareas
  + Tareas pendientes: Ir a la página de tareas pendientes
  + Tareas completadas: Ir a la página de tareas completadas
* **Tareas pendientes:**
  + Carrusel: Se visualizan las tareas en un carrusel que se puede mover arrastrando las tareas
  + Marcar completada: Marcará la tarea de encima como completada
  + Ver todas las tareas: Ir a la página de todas las tareas
  + Tareas completadas: Ir a la página de tareas completadas
* **Tareas completadas**:
  + Carrusel: Se visualizan las tareas en un carrusel que se puede mover arrastrando las tareas
  + Eliminar: Eliminará la tarea de encima
  + Ver todas las tareas: Ir a la página de todas las tareas
  + Tareas pendientes: Ir a la página de tareas pendientes
* **Eventos**:
  + Carrusel: Se visualizan los eventos en un carrusel que se puede mover arrastrando los eventos
  + Crear evento: Accede a la página donde se pueden crear los eventos
* **Crear Eventos**:
  + Formulario: Campos donde se introducen los datos del nuevo evento
  + Añadir evento: Botón que crea el evento
* **Perfil**:
  + Cerrar sesión: Cierra sesión de tu cuenta de usuario
  + Editar perfil: Editar los datos de tu cuenta de usuario

Las **funcionalidades de los padres** son las siguientes:

* **Header**:
  + Menú: Despliega un menú burger
  + Usuario: Accede a la página en la que se visualizan los datos de tu usuario
* **Menú**:
  + Home: Accede a la página principal
  + Mi Casa: Accede a la página en la que se visualizan los datos de tu ‘home’
  + Tareas: Accede a la página en la que se manejan las tareas
  + Eventos: Accede a la página en la que se manejan los eventos
  + Perfil: Accede a la página en la que se visualizan los datos de tu usuario
  + Cerrar sesión: Cierra sesión de tu cuenta de usuario
* **Home**:
  + Tarjeta tareas: Al pulsar en ella te redirecciona a la página donde puedes gestionar las tareas
  + Tarjeta eventos: Al pulsar en ella te redirecciona a la página donde puedes gestionar los eventos
* **Mi Casa**:
  + Crear código de invitación: Crea un código de invitación
* **Tareas**:
  + Carrusel: Se visualizan las tareas en un carrusel que se puede mover arrastrando las tareas
  + Tareas pendientes: Ir a la página de tareas pendientes
  + Tareas completadas: Ir a la página de tareas completadas
  + Crear tareas: Ir a la página de creación de tareas
* **Tareas pendientes:**
  + Carrusel: Se visualizan las tareas en un carrusel que se puede mover arrastrando las tareas
  + Marcar completada: Marcará la tarea de encima como completada
  + Ver todas las tareas: Ir a la página de todas las tareas
  + Tareas completadas: Ir a la página de tareas completadas
  + Crear tareas: Ir a la página de creación de tareas
* **Tareas completadas**:
  + Carrusel: Se visualizan las tareas en un carrusel que se puede mover arrastrando las tareas
  + Eliminar: Eliminará la tarea de encima
  + Ver todas las tareas: Ir a la página de todas las tareas
  + Tareas pendientes: Ir a la página de tareas pendientes
  + Crear tareas: Ir a la página de creación de tareas
* **Crear tareas**:
  + Formulario: Campos donde se introducen los datos de la nueva tarea
  + Crear: Crea una nueva tarea
* **Eventos**:
  + Carrusel: Se visualizan los eventos en un carrusel que se puede mover arrastrando los eventos
  + Crear evento: Accede a la página donde se pueden crear los eventos
* **Crear Eventos**:
  + Formulario: Campos donde se introducen los datos del nuevo evento
  + Añadir evento: Botón que crea el evento
* **Perfil**:
  + Cerrar sesión: Cierra sesión de tu cuenta de usuario
  + Editar perfil: Editar los datos de tu cuenta de usuario

Las **funcionalidades de los administradores** son las siguientes:

* **Header**:
  + Menú: Despliega un menú burger
  + Usuario: Accede a la página en la que se visualizan los datos de tu usuario
* **Menú**:
  + Home: Accede a la página principal
  + Mi Casa: Accede a la página en la que se visualizan los datos de tu ‘home’
  + Tareas: Accede a la página en la que se manejan las tareas
  + Eventos: Accede a la página en la que se manejan los eventos
  + Perfil: Accede a la página en la que se visualizan los datos de tu usuario
  + Cerrar sesión: Cierra sesión de tu cuenta de usuario
* **Home**:
  + Tarjeta tareas: Al pulsar en ella te redirecciona a la página donde puedes gestionar las tareas
  + Tarjeta eventos: Al pulsar en ella te redirecciona a la página donde puedes gestionar los eventos
* **Mi Casa**:
  + Crear código de invitación: Crea un código de invitación
  + Asignar como hijo/padre: Cambia el rol a ese integrante de la casa
* **Tareas**:
  + Carrusel: Se visualizan las tareas en un carrusel que se puede mover arrastrando las tareas
  + Tareas pendientes: Ir a la página de tareas pendientes
  + Tareas completadas: Ir a la página de tareas completadas
  + Crear tareas: Ir a la página de creación de tareas
* **Tareas pendientes:**
  + Carrusel: Se visualizan las tareas en un carrusel que se puede mover arrastrando las tareas
  + Marcar completada: Marcará la tarea de encima como completada
  + Ver todas las tareas: Ir a la página de todas las tareas
  + Tareas completadas: Ir a la página de tareas completadas
  + Crear tareas: Ir a la página de creación de tareas
* **Tareas completadas**:
  + Carrusel: Se visualizan las tareas en un carrusel que se puede mover arrastrando las tareas
  + Eliminar: Eliminará la tarea de encima
  + Ver todas las tareas: Ir a la página de todas las tareas
  + Tareas pendientes: Ir a la página de tareas pendientes
  + Crear tareas: Ir a la página de creación de tareas
* **Crear tareas**:
  + Formulario: Campos donde se introducen los datos de la nueva tarea
  + Crear: Crea una nueva tarea
* **Eventos**:
  + Carrusel: Se visualizan los eventos en un carrusel que se puede mover arrastrando los eventos
  + Crear evento: Accede a la página donde se pueden crear los eventos
* **Crear Eventos**:
  + Formulario: Campos donde se introducen los datos del nuevo evento
  + Añadir evento: Botón que crea el evento
* **Perfil**:
  + Cerrar sesión: Cierra sesión de tu cuenta de usuario
  + Editar perfil: Editar los datos de tu cuenta de usuario