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## A

**AccessDeniedException** - Exception Class in [com.mapmyjourney.backend.exception](#)

Excepción para acceso denegado (falta de permisos).

**AccessDeniedException(String)** - Constructor for exception class [com.mapmyjourney.backend.exception.AccessDeniedException](#)

**AccessDeniedException(String, Throwable)** - Constructor for exception class [com.mapmyjourney.backend.exception.AccessDeniedException](#)

**addCorsMappings(CorsRegistry)** - Method in class [com.mapmyjourney.backend.config.CorsConfig](#)

**addMember(Long, AddMemberRequestDTO)** - Method in class [com.mapmyjourney.backend.controller.TripMemberController](#)  
1.

**AddMemberRequestDTO** - Class in [com.mapmyjourney.backend.dto](#)  
DTO para agregar un nuevo miembro a un viaje.

**AddMemberRequestDTO()** - Constructor for class [com.mapmyjourney.backend.dto.AddMemberRequestDTO](#)

**addMemberToTrip(Long, Long)** - Method in class [com.mapmyjourney.backend.service.TripService](#)  
Agrega un usuario a un viaje con rol VIEWER.

**addMemberToTrip(Long, Long, TripMemberRole)** - Method in class [com.mapmyjourney.backend.service.TripMemberService](#)  
Agrega un nuevo miembro a un viaje.

**ADMIN** - Enum constant in enum class [com.mapmyjourney.backend.model.enums.UserRole](#)

**authenticate(String, String)** - Method in class [com.mapmyjourney.backend.service.UserService](#)  
6.

**authenticationManager(HttpSecurity)** - Method in class [com.mapmyjourney.backend.security.SecurityConfig](#)  
Configura el AuthenticationManager con DaoAuthenticationProvider.

**authHealth()** - Method in class [com.mapmyjourney.backend.controller.HealthController](#)  
Verifica que el servicio de autenticación está disponible

## B

**BackendApplication** - Class in [com.mapmyjourney.backend](#)  
Clase principal para iniciar la aplicación Spring Boot.

**BackendApplication()** - Constructor for class [com.mapmyjourney.backend.BackendApplication](#)

## C

**changeMemberRole(Long, Long, ChangeMemberRoleRequestDTO)** - Method in class [com.mapmyjourney.backend.controller.TripMemberController](#)  
4.

**changeMemberRole(Long, Long, TripMemberRole)** - Method in class [com.mapmyjourney.backend.service.TripMemberService](#)  
Cambia el rol de un miembro en un viaje.

**ChangeMemberRoleRequestDTO** - Class in [com.mapmyjourney.backend.dto](#)  
DTO para cambiar el rol de un miembro en un viaje.

**ChangeMemberRoleRequestDTO()** - Constructor for class [com.mapmyjourney.backend.dto.ChangeMemberRoleRequestDTO](#)

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**CorsConfig** - Class in [com.mapmyjourney.backend.config](#)

Configuración de CORS (Cross-Origin Resource Sharing) Permite que el frontend pueda hacer solicitudes al backend

**CorsConfig()** - Constructor for class [com.mapmyjourney.backend.config.CorsConfig](#)

**corsConfigurationSource()** - Method in class `com.mapmyjourney.backend.security.SecurityConfig`  
Configura CORS para permitir solicitudes desde el frontend en localhost:4200.

**createExpense(Long, ExpenseCreateRequestDTO)** - Method in class `com.mapmyjourney.backend.controller.ExpenseController`  
1.

**createExpense(Long, ExpenseCreateRequestDTO, Long)** - Method in class `com.mapmyjourney.backend.service.ExpenseService`  
1.

**createSplit(Long, CreateSplitRequestDTO)** - Method in class `com.mapmyjourney.backend.controller.ExpenseSplitController`  
1.

**createSplit(Long, Long, BigDecimal, BigDecimal)** - Method in class `com.mapmyjourney.backend.service.ExpenseSplitService`  
Crea una nueva división de gasto.

**CreateSplitRequestDTO** - Class in `com.mapmyjourney.backend.dto`  
DTO para crear una nueva división de gasto.

**CreateSplitRequestDTO()** - Constructor for class `com.mapmyjourney.backend.dto.CreateSplitRequestDTO`

**createTrip(TripCreateRequestDTO)** - Method in class `com.mapmyjourney.backend.controller.TripController`  
1.

**createTrip(TripCreateRequestDTO, Long)** - Method in class `com.mapmyjourney.backend.service.TripService`  
Crea un nuevo viaje.

**CUSTOM** - Enum constant in enum class `com.mapmyjourney.backend.model.enums.ExpenseSplitType`

**customOpenAPI()** - Method in class `com.mapmyjourney.backend.config.OpenApiConfig`

**CustomUserDetailsService** - Class in `com.mapmyjourney.backend.security`  
Servicio para cargar detalles de usuario desde la base de datos.

**CustomUserDetailsService()** - Constructor for class `com.mapmyjourney.backend.security.CustomUserDetailsService`

## D

**daoAuthenticationProvider()** - Method in class `com.mapmyjourney.backend.security.SecurityConfig`  
Configura el proveedor de autenticación DAO.

**deleteExpense(Long, Long)** - Method in class `com.mapmyjourney.backend.controller.ExpenseController`  
5.

**deleteExpense(Long, Long)** - Method in class `com.mapmyjourney.backend.service.ExpenseService`  
Elimina un gasto.

**deleteSplit(Long)** - Method in class `com.mapmyjourney.backend.service.ExpenseSplitService`  
Elimina una división de gasto.

**deleteSplit(Long, Long)** - Method in class `com.mapmyjourney.backend.controller.ExpenseSplitController`  
6.

**deleteTrip(Long)** - Method in class `com.mapmyjourney.backend.controller.TripController`  
6.

**deleteTrip(Long, Long)** - Method in class `com.mapmyjourney.backend.service.TripService`  
Elimina un viaje.

**deleteUser(Long)** - Method in class `com.mapmyjourney.backend.controller.UserController`  
6.

**deleteUser(Long)** - Method in class `com.mapmyjourney.backend.service.UserService`  
5.

**doFilterInternal(HttpServletRequest, HttpServletResponse, FilterChain)** - Method in class `com.mapmyjourney.backend.security.JwtAuthenticationFilter`

**DuplicateResourceException** - Exception Class in `com.mapmyjourney.backend.exception`  
Excepción para operaciones duplicadas (ej: usuario ya existe).

**DuplicateResourceException(String)** - Constructor for exception class `com.mapmyjourney.backend.exception.DuplicateResourceException`

**DuplicateResourceException(String, Throwable)** - Constructor for exception class `com.mapmyjourney.backend.exception.DuplicateResourceException`

## E

**EDITOR** - Enum constant in enum class `com.mapmyjourney.backend.model.enums.TripMemberRole`

**EQUAL** - Enum constant in enum class `com.mapmyjourney.backend.model.enums.ExpenseSplitType`

**ErrorResponseDTO** - Class in `com.mapmyjourney.backend.dto`  
DTO para respuestas de error de la API.

**ErrorResponseDTO()** - Constructor for class `com.mapmyjourney.backend.dto.ErrorResponseDTO`

**existsByEmail(String)** - Method in interface `com.mapmyjourney.backend.repository.UserRepository`  
Verifica si existe un usuario con ese email.

**Expense** - Class in `com.mapmyjourney.backend.model`  
Entidad que representa un gasto en un viaje.

**Expense()** - Constructor for class `com.mapmyjourney.backend.model.Expense`

**ExpenseController** - Class in `com.mapmyjourney.backend.controller`

Controlador REST para gestionar gastos en viajes.

**ExpenseController()** - Constructor for class `com.mapmyjourney.backend.controller.ExpenseController`

**ExpenseCreateRequestDTO** - Class in `com.mapmyjourney.backend.dto`  
DTO para crear un nuevo gasto.

**ExpenseCreateRequestDTO()** - Constructor for class `com.mapmyjourney.backend.dto.ExpenseCreateRequestDTO`

**ExpenseDTO** - Class in `com.mapmyjourney.backend.dto`  
DTO para información completa de un gasto.

**ExpenseDTO()** - Constructor for class `com.mapmyjourney.backend.dto.ExpenseDTO`

**ExpenseRepository** - Interface in `com.mapmyjourney.backend.repository`

**ExpenseService** - Class in `com.mapmyjourney.backend.service`

**ExpenseService()** - Constructor for class `com.mapmyjourney.backend.service.ExpenseService`

**ExpenseSplit** - Class in `com.mapmyjourney.backend.model`  
Entidad que representa la división de un gasto entre un usuario.

**ExpenseSplit()** - Constructor for class `com.mapmyjourney.backend.model.ExpenseSplit`

**ExpenseSplitController** - Class in `com.mapmyjourney.backend.controller`  
Controlador REST para gestionar divisiones de gastos.

**ExpenseSplitController()** - Constructor for class `com.mapmyjourney.backend.controller.ExpenseSplitController`

**ExpenseSplitDTO** - Class in `com.mapmyjourney.backend.dto`  
DTO para una división de gasto.

**ExpenseSplitDTO()** - Constructor for class `com.mapmyjourney.backend.dto.ExpenseSplitDTO`

**ExpenseSplitRepository** - Interface in `com.mapmyjourney.backend.repository`

**ExpenseSplitService** - Class in `com.mapmyjourney.backend.service`  
Servicio para gestionar las divisiones de gastos.

**ExpenseSplitService()** - Constructor for class `com.mapmyjourney.backend.service.ExpenseSplitService`

**ExpenseSplitType** - Enum Class in `com.mapmyjourney.backend.model.enums`  
Enum que define cómo se divide un gasto entre los participantes.

**extractEmail(String)** - Method in class `com.mapmyjourney.backend.security.JwtTokenProvider`  
Extrae el email del token JWT.

## F

**filterChain(HttpSecurity)** - Method in class `com.mapmyjourney.backend.security.SecurityConfig`  
Configura la cadena de filtros de seguridad HTTP.

**findAllByTripId(Long)** - Method in interface `com.mapmyjourney.backend.repository.TripMemberRepository`  
Obtiene todos los miembros de un viaje.

**findAllByUserId(Long)** - Method in interface `com.mapmyjourney.backend.repository.TripRepository`  
Obtiene todos los viajes donde el usuario es miembro.

**findByEmail(String)** - Method in interface `com.mapmyjourney.backend.repository.UserRepository`  
Busca un usuario por su email.

**findByExpenseId(Long)** - Method in interface `com.mapmyjourney.backend.repository.ExpenseSplitRepository`  
Obtiene todas las divisiones de un gasto.

**findByParticipantIdAndPaidFalse(Long)** - Method in interface `com.mapmyjourney.backend.repository.ExpenseSplitRepository`  
Obtiene todas las divisiones no pagadas de un usuario.

**findByTripCode(String)** - Method in interface `com.mapmyjourney.backend.repository.TripRepository`  
Busca un viaje por su código único (para invitaciones).

**findByTripId(Long)** - Method in interface `com.mapmyjourney.backend.repository.ExpenseRepository`  
Obtiene todos los gastos de un viaje.

**findByTripIdAndUserId(Long, Long)** - Method in interface `com.mapmyjourney.backend.repository.TripMemberRepository`  
Obtiene el rol de un usuario en un viaje.

## G

**generateToken(String)** - Method in class `com.mapmyjourney.backend.security.JwtTokenProvider`  
Genera un token JWT para el email proporcionado.

**generateToken(Authentication)** - Method in class `com.mapmyjourney.backend.security.JwtTokenProvider`  
Genera un token JWT a partir de una Authentication.

**getBudget()** - Method in class `com.mapmyjourney.backend.dto.TripCreateRequestDTO`

**getDescription()** - Method in class `com.mapmyjourney.backend.dto.TripCreateRequestDTO`

**getDescription()** - Method in enum class `com.mapmyjourney.backend.model.enums.TripMemberRole`

**getDestination()** - Method in class `com.mapmyjourney.backend.dto.TripCreateRequestDTO`

**getDisplayName()** - Method in enum class `com.mapmyjourney.backend.model.enums.ExpenseSplitType`

**getDisplayName()** - Method in enum class `com.mapmyjourney.backend.model.enums.UserRole`

**getEmail()** - Method in class com.mapmyjourney.backend.dto.LoginRequestDTO

**getEmail()** - Method in class com.mapmyjourney.backend.dto.UserCreateRequestDTO

**getEndDate()** - Method in class com.mapmyjourney.backend.dto.TripCreateRequestDTO

**getExpense(Long, Long)** - Method in class com.mapmyjourney.backend.controller.ExpenseController  
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**getExpenseById(Long)** - Method in class com.mapmyjourney.backend.service.ExpenseService  
3.

**getExpenseSplits(Long)** - Method in class com.mapmyjourney.backend.controller.ExpenseSplitController  
2.

**getExpenseSplits(Long)** - Method in class com.mapmyjourney.backend.service.ExpenseSplitService  
Obtiene todas las divisiones de un gasto.

**getExpirationTime()** - Method in class com.mapmyjourney.backend.security.JwtTokenProvider  
Retorna el tiempo de expiración del token en milisegundos.

**getMember(Long, Long)** - Method in class com.mapmyjourney.backend.controller.TripMemberController  
3.

**getMember(Long, Long)** - Method in class com.mapmyjourney.backend.service.TripMemberService  
Obtiene un miembro específico de un viaje.

**getMyTrips(int, int)** - Method in class com.mapmyjourney.backend.controller.TripController  
3.

**getName()** - Method in class com.mapmyjourney.backend.dto.UserCreateRequestDTO

**getPassword()** - Method in class com.mapmyjourney.backend.dto.LoginRequestDTO

**getPassword()** - Method in class com.mapmyjourney.backend.dto.UserCreateRequestDTO

**getSplit(Long)** - Method in class com.mapmyjourney.backend.service.ExpenseSplitService  
Obtiene una división específica por ID.

**getSplit(Long, Long)** - Method in class com.mapmyjourney.backend.controller.ExpenseSplitController  
3.

**getStartDate()** - Method in class com.mapmyjourney.backend.dto.TripCreateRequestDTO

**getTitle()** - Method in class com.mapmyjourney.backend.dto.TripCreateRequestDTO

**getTotalPendingDebt(Long)** - Method in class com.mapmyjourney.backend.controller.ExpenseSplitController  
8.

**getTotalPendingDebt(Long)** - Method in class com.mapmyjourney.backend.service.ExpenseSplitService  
Calcula el total de deudas pendientes de un usuario.

**getTotalSplits()** - Method in class com.mapmyjourney.backend.model.Expense  
Calcula el total de los splits.

**getTripByCode(String)** - Method in class com.mapmyjourney.backend.controller.TripController  
4.

**getTripByCode(String)** - Method in class com.mapmyjourney.backend.service.TripService  
Obtiene un viaje por su código (para invitaciones).

**getTripById(Long)** - Method in class com.mapmyjourney.backend.controller.TripController  
2.

**getTripById(Long)** - Method in class com.mapmyjourney.backend.service.TripService  
Obtiene un viaje por ID.

**getTripExpenses(Long)** - Method in class com.mapmyjourney.backend.service.ExpenseService  
2.

**getTripExpenses(Long, int, int)** - Method in class com.mapmyjourney.backend.controller.ExpenseController  
2.

**getTripMembers(Long)** - Method in class com.mapmyjourney.backend.controller.TripMemberController  
2.

**getTripMembers(Long)** - Method in class com.mapmyjourney.backend.service.TripMemberService  
Obtiene todos los miembros de un viaje.

**getUserByEmail(String)** - Method in class com.mapmyjourney.backend.controller.UserController  
4.

**getUserByEmail(String)** - Method in class com.mapmyjourney.backend.service.UserService  
3.

**getUserById(Long)** - Method in class com.mapmyjourney.backend.controller.UserController  
3.

**getUserById(Long)** - Method in class com.mapmyjourney.backend.service.UserService  
2.

**getUserIdByEmail(String)** - Method in class com.mapmyjourney.backend.service.UserService  
Obtiene el ID del usuario a partir del email.

**getUserPendingDebts(Long)** - Method in class com.mapmyjourney.backend.controller.ExpenseSplitController  
7.

**getUserPendingDebts(Long)** - Method in class com.mapmyjourney.backend.service.ExpenseSplitService  
Obtiene todas las deudas pendientes de un usuario.

**getUserTrips(Long)** - Method in class com.mapmyjourney.backend.service.TripService  
Obtiene todos los viajes del usuario.

**GlobalExceptionHandler** - Class in `com.mapmyjourney.backend.config`  
Manejador global de excepciones para la API REST.

**GlobalExceptionHandler()** - Constructor for class `com.mapmyjourney.backend.config.GlobalExceptionHandler`

## H

**handleAccessDenied(AccessDeniedException)** - Method in class `com.mapmyjourney.backend.config.GlobalExceptionHandler`  
Maneja excepciones de acceso denegado (403).

**handleAuthenticationException(AuthenticationException)** - Method in class `com.mapmyjourney.backend.config.GlobalExceptionHandler`  
Maneja excepciones generales de autenticación (401).

**handleBadCredentials(BadCredentialsException)** - Method in class `com.mapmyjourney.backend.config.GlobalExceptionHandler`  
Maneja excepciones de credenciales inválidas (401).

**handleDuplicateResource(DuplicateResourceException)** - Method in class `com.mapmyjourney.backend.config.GlobalExceptionHandler`  
Maneja excepciones de recurso duplicado (409).

**handleGeneralException(Exception)** - Method in class `com.mapmyjourney.backend.config.GlobalExceptionHandler`  
Maneja todas las excepciones no capturadas (500).

**handleResourceNotFound(ResourceNotFoundException)** - Method in class `com.mapmyjourney.backend.config.GlobalExceptionHandler`  
Maneja excepciones de recurso no encontrado (404).

**handleValidationException(ValidationException)** - Method in class `com.mapmyjourney.backend.config.GlobalExceptionHandler`  
Maneja excepciones de validación.

**handleValidationExceptions(MethodArgumentNotValidException)** - Method in class `com.mapmyjourney.backend.config.GlobalExceptionHandler`  
Maneja excepciones de validación de argumentos (ej: @Valid fallido).

**hasPermission(TripMemberRole)** - Method in enum class `com.mapmyjourney.backend.model.enums.TripMemberRole`  
Verifica si este rol tiene un permiso específico.

**hasPermission(TripMemberRole)** - Method in class `com.mapmyjourney.backend.model.TripMember`  
Verifica si este miembro tiene el permiso requerido.

**hasRole(Long, Long, TripMemberRole)** - Method in class `com.mapmyjourney.backend.service.TripMemberService`  
Verifica si un usuario tiene un rol específico en un viaje.

**health()** - Method in class `com.mapmyjourney.backend.controller.HealthController`  
Verifica que el servidor backend está disponible

**HealthController** - Class in `com.mapmyjourney.backend.controller`  
Controlador para verificar el estado de los servicios del backend Usado por la página de estado para comprobar que el backend está disponible

**HealthController()** - Constructor for class `com.mapmyjourney.backend.controller.HealthController`

## I

**isMemberOfTrip(Long, Long)** - Method in class `com.mapmyjourney.backend.service.TripMemberService`  
Verifica si un usuario es miembro de un viaje.

**isOwner()** - Method in class `com.mapmyjourney.backend.model.TripMember`  
Verifica si este miembro es el propietario del viaje.

## J

**JwtAuthenticationFilter** - Class in `com.mapmyjourney.backend.security`

**JwtAuthenticationFilter()** - Constructor for class `com.mapmyjourney.backend.security.JwtAuthenticationFilter`

**JwtTokenProvider** - Class in `com.mapmyjourney.backend.security`

**JwtTokenProvider()** - Constructor for class `com.mapmyjourney.backend.security.JwtTokenProvider`

## L

**leaveTrip(Long)** - Method in class `com.mapmyjourney.backend.controller.TripMemberController`  
6.

**loadUserByUsername(String)** - Method in class `com.mapmyjourney.backend.security.CustomUserDetailsService`

**login(LoginRequestDTO)** - Method in class `com.mapmyjourney.backend.controller.UserController`  
2.

**LoginRequestDTO** - Class in `com.mapmyjourney.backend.dto`  
DTO para solicitud de login.

**LoginRequestDTO()** - Constructor for class `com.mapmyjourney.backend.dto.LoginRequestDTO`

**LoginRequestDTO(String, String)** - Constructor for class `com.mapmyjourney.backend.dto.LoginRequestDTO`

**LoginResponseDTO** - Class in `com.mapmyjourney.backend.dto`  
DTO para respuesta de login (contiene el token JWT y datos del usuario).

**LoginResponseDTO(String, Long, UserDTO)** - Constructor for class `com.mapmyjourney.backend.dto.LoginResponseDTO`

**LoginResponseDTO(String, String, Long, UserDTO)** - Constructor for class `com.mapmyjourney.backend.dto.LoginResponseDTO`



## M

**main(String[])** - Static method in class `com.mapmyjourney.backend.BackendApplication`

Método principal que arranca la aplicación Spring Boot.

**MANUAL** - Enum constant in enum class `com.mapmyjourney.backend.model.enums.ExpenseSplitType`

**markAsPaid(Long)** - Method in class `com.mapmyjourney.backend.service.ExpenseSplitService`

Marca una división como pagada.

**markAsUnpaid(Long)** - Method in class `com.mapmyjourney.backend.service.ExpenseSplitService`

Marca una división como no pagada.

**markSplitAsPaid(Long)** - Method in class `com.mapmyjourney.backend.service.ExpenseService`

4.

**markSplitAsPaid(Long, Long)** - Method in class `com.mapmyjourney.backend.controller.ExpenseSplitController`

4.

**markSplitAsUnpaid(Long, Long)** - Method in class `com.mapmyjourney.backend.controller.ExpenseSplitController`

5.

## O

**onUpdate()** - Method in class `com.mapmyjourney.backend.model.Expense`

**onUpdate()** - Method in class `com.mapmyjourney.backend.model.User`

**OpenApiConfig** - Class in `com.mapmyjourney.backend.config`

Configuración de OpenAPI/Swagger para la API REST.

**OpenApiConfig()** - Constructor for class `com.mapmyjourney.backend.config.OpenApiConfig`

**OWNER** - Enum constant in enum class `com.mapmyjourney.backend.model.enums.TripMemberRole`

## P

**passwordEncoder()** - Method in class `com.mapmyjourney.backend.security.SecurityConfig`

Define el encoder de contraseñas (BCrypt).

**PERCENTAGE** - Enum constant in enum class `com.mapmyjourney.backend.model.enums.ExpenseSplitType`

## R

**registerUser(UserCreateRequestDTO)** - Method in class `com.mapmyjourney.backend.controller.UserController`

1.

**registerUser(UserCreateRequestDTO)** - Method in class `com.mapmyjourney.backend.service.UserService`

1.

**registerUserAndAuthenticate(UserCreateRequestDTO)** - Method in class `com.mapmyjourney.backend.service.UserService`

Registra un nuevo usuario y lo autentica automáticamente.

**removeMember(Long, Long)** - Method in class `com.mapmyjourney.backend.controller.TripMemberController`

5.

**removeMemberFromTrip(Long, Long)** - Method in class `com.mapmyjourney.backend.service.TripMemberService`

Elimina un miembro de un viaje.

**ResourceNotFoundException** - Exception Class in `com.mapmyjourney.backend.exception`

Excepción base para errores de recursos no encontrados.

**ResourceNotFoundException(String)** - Constructor for exception class

`com.mapmyjourney.backend.exception.ResourceNotFoundException`

**ResourceNotFoundException(String, Throwable)** - Constructor for exception class

`com.mapmyjourney.backend.exception.ResourceNotFoundException`

## S

**SecurityConfig** - Class in `com.mapmyjourney.backend.security`

Configuración de Spring Security con JWT y CORS

**SecurityConfig()** - Constructor for class `com.mapmyjourney.backend.security.SecurityConfig`

**setBudget(BigDecimal)** - Method in class `com.mapmyjourney.backend.dto.TripCreateRequestDTO`

**setDescription(String)** - Method in class `com.mapmyjourney.backend.dto.TripCreateRequestDTO`

**setDestination(String)** - Method in class `com.mapmyjourney.backend.dto.TripCreateRequestDTO`

**setEmail(String)** - Method in class `com.mapmyjourney.backend.dto.LoginRequestDTO`

**setEmail(String)** - Method in class `com.mapmyjourney.backend.dto.UserCreateRequestDTO`

**setEndDate(LocalDate)** - Method in class `com.mapmyjourney.backend.dto.TripCreateRequestDTO`

**setName(String)** - Method in class `com.mapmyjourney.backend.dto.UserCreateRequestDTO`

**setPassword(String)** - Method in class com.mapmyjourney.backend.dto.LoginRequestDTO

**setPassword(String)** - Method in class com.mapmyjourney.backend.dto.UserCreateRequestDTO

**setStartDate(LocalDate)** - Method in class com.mapmyjourney.backend.dto.TripCreateRequestDTO

**setTitle(String)** - Method in class com.mapmyjourney.backend.dto.TripCreateRequestDTO

## T

**toString()** - Method in class com.mapmyjourney.backend.dto.LoginRequestDTO

**Trip** - Class in com.mapmyjourney.backend.model  
Entidad que representa un viaje colaborativo.

**Trip()** - Constructor for class com.mapmyjourney.backend.model.Trip

**TripController** - Class in com.mapmyjourney.backend.controller  
Controlador REST para gestionar viajes.

**TripController()** - Constructor for class com.mapmyjourney.backend.controller.TripController

**TripCreateRequestDTO** - Class in com.mapmyjourney.backend.dto  
DTO para crear un nuevo viaje.

**TripCreateRequestDTO()** - Constructor for class com.mapmyjourney.backend.dto.TripCreateRequestDTO

**TripCreateRequestDTO(String, String, String, LocalDate, LocalDate, BigDecimal)** - Constructor for class com.mapmyjourney.backend.dto.TripCreateRequestDTO

**TripDTO** - Class in com.mapmyjourney.backend.dto  
DTO para información completa de un viaje.

**TripDTO()** - Constructor for class com.mapmyjourney.backend.dto.TripDTO

**TripMember** - Class in com.mapmyjourney.backend.model  
Entidad que representa la relación entre un Usuario y un Viaje.

**TripMember()** - Constructor for class com.mapmyjourney.backend.model.TripMember

**TripMemberController** - Class in com.mapmyjourney.backend.controller  
Controlador REST para gestionar miembros de viajes.

**TripMemberController()** - Constructor for class com.mapmyjourney.backend.controller.TripMemberController

**TripMemberDTO** - Class in com.mapmyjourney.backend.dto  
DTO para información de un miembro de un viaje.

**TripMemberDTO()** - Constructor for class com.mapmyjourney.backend.dto.TripMemberDTO

**TripMemberRepository** - Interface in com.mapmyjourney.backend.repository

**TripMemberRole** - Enum Class in com.mapmyjourney.backend.model.enums  
Enumeración que define los roles de un usuario dentro de un viaje.

**TripMemberService** - Class in com.mapmyjourney.backend.service  
Servicio para gestionar la membresía de usuarios en viajes.

**TripMemberService()** - Constructor for class com.mapmyjourney.backend.service.TripMemberService

**TripRepository** - Interface in com.mapmyjourney.backend.repository

**TripService** - Class in com.mapmyjourney.backend.service

**TripService()** - Constructor for class com.mapmyjourney.backend.service.TripService

**tripsHealth()** - Method in class com.mapmyjourney.backend.controller.HealthController  
Verifica que el servicio de viajes está disponible

## U

**updateExpense(Long, ExpenseCreateRequestDTO, Long)** - Method in class com.mapmyjourney.backend.service.ExpenseService  
Actualiza un gasto existente.

**updateExpense(Long, Long, ExpenseCreateRequestDTO)** - Method in class com.mapmyjourney.backend.controller.ExpenseController  
4.

**updateSplitAmount(Long, BigDecimal)** - Method in class com.mapmyjourney.backend.service.ExpenseSplitService  
Actualiza el monto de una división.

**updateTrip(Long, TripCreateRequestDTO)** - Method in class com.mapmyjourney.backend.controller.TripController  
5.

**updateTrip(Long, TripCreateRequestDTO, Long)** - Method in class com.mapmyjourney.backend.service.TripService  
Actualiza un viaje existente.

**updateUser(Long, UserCreateRequestDTO)** - Method in class com.mapmyjourney.backend.controller.UserController  
5.

**updateUser(Long, UserCreateRequestDTO)** - Method in class com.mapmyjourney.backend.service.UserService  
4.

**User** - Class in com.mapmyjourney.backend.model

Entidad que representa un usuario en el sistema.

**User()** - Constructor for class [com.mapmyjourney.backend.model.User](#)

**USER** - Enum constant in enum class [com.mapmyjourney.backend.model.enums.UserRole](#)

**UserController** - Class in [com.mapmyjourney.backend.controller](#)  
Controlador REST para gestionar usuarios.

**UserController()** - Constructor for class [com.mapmyjourney.backend.controller.UserController](#)

**UserCreateRequestDTO** - Class in [com.mapmyjourney.backend.dto](#)  
DTO para crear/registrarse un nuevo usuario.

**UserCreateRequestDTO()** - Constructor for class [com.mapmyjourney.backend.dto.UserCreateRequestDTO](#)

**UserCreateRequestDTO(String, String, String)** - Constructor for class [com.mapmyjourney.backend.dto.UserCreateRequestDTO](#)

**UserDTO** - Class in [com.mapmyjourney.backend.dto](#)  
DTO para información pública de un usuario.

**UserDTO()** - Constructor for class [com.mapmyjourney.backend.dto.UserDTO](#)

**UserRepository** - Interface in [com.mapmyjourney.backend.repository](#)

**UserRole** - Enum Class in [com.mapmyjourney.backend.model.enums](#)  
Enum que define los roles de los usuarios en el sistema.

**UserService** - Class in [com.mapmyjourney.backend.service](#)

**UserService()** - Constructor for class [com.mapmyjourney.backend.service.UserService](#)

**usersHealth()** - Method in class [com.mapmyjourney.backend.controller.HealthController](#)  
Verifica que el servicio de usuarios está disponible

## V

**validateDatesAndUpdate()** - Method in class [com.mapmyjourney.backend.model.Trip](#)  
Valida que la fecha de fin sea posterior a la de inicio y actualiza timestamp.

**validateToken(String)** - Method in class [com.mapmyjourney.backend.security.JwtTokenProvider](#)  
Valida que el token JWT sea válido.

**ValidationException** - Exception Class in [com.mapmyjourney.backend.exception](#)  
Excepción para errores de negocio (ej: viaje con fechas inválidas).

**ValidationException(String)** - Constructor for exception class [com.mapmyjourney.backend.exception.ValidationException](#)

**ValidationException(String, Throwable)** - Constructor for exception class [com.mapmyjourney.backend.exception.ValidationException](#)

**valueOf(String)** - Static method in enum class [com.mapmyjourney.backend.model.enums.ExpenseSplitType](#)  
Returns the enum constant of this class with the specified name.

**valueOf(String)** - Static method in enum class [com.mapmyjourney.backend.model.enums.TripMemberRole](#)  
Returns the enum constant of this class with the specified name.

**valueOf(String)** - Static method in enum class [com.mapmyjourney.backend.model.enums.UserRole](#)  
Returns the enum constant of this class with the specified name.

**values()** - Static method in enum class [com.mapmyjourney.backend.model.enums.ExpenseSplitType](#)  
Returns an array containing the constants of this enum class, in the order they are declared.

**values()** - Static method in enum class [com.mapmyjourney.backend.model.enums.TripMemberRole](#)  
Returns an array containing the constants of this enum class, in the order they are declared.

**values()** - Static method in enum class [com.mapmyjourney.backend.model.enums.UserRole](#)  
Returns an array containing the constants of this enum class, in the order they are declared.

**verifyUserInTrip(Long, Long)** - Method in class [com.mapmyjourney.backend.service.TripService](#)  
Verifica que un usuario pertenece a un viaje.

**VIEWER** - Enum constant in enum class [com.mapmyjourney.backend.model.enums.TripMemberRole](#)