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

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

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**existsByEmail(String)** - Method in interface com.mapmyjourney.backend.repository.UserRepository  
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**Expense** - Class in com.mapmyjourney.backend.model  
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**Expense()** - Constructor for class com.mapmyjourney.backend.model.Expense

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

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

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

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

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

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

**ExpenseSplitDTO** - Class in com.mapmyjourney.backend.dto

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**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.

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

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

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

**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

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

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**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

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

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

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**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

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

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**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

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**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

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**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

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

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

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**getTripMembers(Long)** - Method in class com.mapmyjourney.backend.service.TripMemberService

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

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

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**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).

**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).

**handleResourceNotFoundException(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.

## 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

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**leaveTrip(Long)** - Method in class com.mapmyjourney.backend.controller.TripMemberController  
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**loadUserByUsername(String)** - Method in class com.mapmyjourney.backend.security.CustomUserDetailsService

**login(LoginRequestDTO)** - Method in class com.mapmyjourney.backend.controller.UserController  
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**LoginRequestDTO** - Class in com.mapmyjourney.backend.dto  
DTO para solicitud de login.

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

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

**LoginResponseDTO()** - 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  
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**markSplitAsPaid(Long, Long)** - Method in class com.mapmyjourney.backend.controller.ExpenseSplitController  
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**markSplitAsUnpaid(Long, Long)** - Method in class com.mapmyjourney.backend.controller.ExpenseSplitController  
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**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  
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**PERCENTAGE** - Enum constant in enum class com.mapmyjourney.backend.model.enums.ExpenseSplitType

## R

**registerUser(UserCreateRequestDTO)** - Method in class com.mapmyjourney.backend.controller.UserController  
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**registerUser(UserCreateRequestDTO)** - Method in class com.mapmyjourney.backend.service.UserService  
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**removeMember(Long, Long)** - Method in class com.mapmyjourney.backend.controller.TripMemberController  
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**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

## T

**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

**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

## 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  
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**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/registrar un nuevo usuario.

**UserCreateRequestDTO()** - 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

## 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

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