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

**ExpenseDTO** - Class in `com.mapmyjourney.backend.dto`

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

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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`

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

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**extractEmail(String)** - Method in class `com.mapmyjourney.backend.security.JwtTokenProvider`

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

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**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`

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**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`

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

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**getExpirationTime()** - Method in class `com.mapmyjourney.backend.security.JwtTokenProvider`

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**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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**getTotalPendingDebt(Long)** - Method in class com.mapmyjourney.backend.service.ExpenseSplitService  
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**getTotalSplits()** - Method in class com.mapmyjourney.backend.model.Expense  
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**getTripByCode(String)** - Method in class com.mapmyjourney.backend.controller.TripController  
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**getTripByCode(String)** - Method in class com.mapmyjourney.backend.service.TripService  
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**getUserById(Long)** - Method in class com.mapmyjourney.backend.service.UserService  
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**getUserTrips(Long)** - Method in class com.mapmyjourney.backend.service.TripService  
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**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  
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**handleDuplicateResource(DuplicateResourceException)** - Method in class com.mapmyjourney.backend.config.GlobalExceptionHandler  
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**handleGeneralException(Exception)** - Method in class com.mapmyjourney.backend.config.GlobalExceptionHandler  
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**handleResourceNotFound(ResourceNotFoundException)** - Method in class com.mapmyjourney.backend.config.GlobalExceptionHandler  
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**handleValidationException(ValidationException)** - Method in class com.mapmyjourney.backend.config.GlobalExceptionHandler  
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**handleValidationExceptions(MethodArgumentNotValidException)** - Method in class com.mapmyjourney.backend.config.GlobalExceptionHandler  
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**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  
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**isMemberOfTrip(Long, Long)** - Method in class com.mapmyjourney.backend.service.TripMemberService  
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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](#)  
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**markAsPaid(Long)** - Method in class [com.mapmyjourney.backend.service.ExpenseSplitService](#)  
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**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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**onUpdate()** - Method in class [com.mapmyjourney.backend.model.User](#)

**OpenApiConfig** - Class in [com.mapmyjourney.backend.config](#)  
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**registerUser(UserCreateRequestDTO)** - Method in class [com.mapmyjourney.backend.controller.UserController](#)  
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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](#)  
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**ResourceNotFoundException** - Exception Class in [com.mapmyjourney.backend.exception](#)  
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**ResourceNotFoundException(String)** - Constructor for exception class [com.mapmyjourney.backend.exception.ResourceNotFoundException](#)



**ResourceNotFoundException(String, Throwable)** - Constructor for exception class  
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**SecurityConfig** - Class in com.mapmyjourney.backend.security  
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**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  
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**updateTrip(Long, TripCreateRequestDTO)** - Method in class com.mapmyjourney.backend.controller.TripController  
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**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  
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**updateUser(Long, UserCreateRequestDTO)** - Method in class com.mapmyjourney.backend.service.UserService  
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**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`