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**createTrip(TripCreateRequestDTO, Long)** - Method in class `com.mapmyjourney.backend.service.TripService`  
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**customOpenAPI()** - Method in class `com.mapmyjourney.backend.config.OpenApiConfig`

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

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

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

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**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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## F

**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`  
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**findByTripCode(String)** - Method in interface `com.mapmyjourney.backend.repository.TripRepository`  
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**findByTripId(Long)** - Method in interface `com.mapmyjourney.backend.repository.ExpenseRepository`  
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**findByTripIdAndUserId(Long, Long)** - Method in interface `com.mapmyjourney.backend.repository.TripMemberRepository`  
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## G

**generateToken(String)** - Method in class `com.mapmyjourney.backend.security.JwtTokenProvider`  
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**getBudget()** - Method in class `com.mapmyjourney.backend.dto.TripCreateRequestDTO`

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

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**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

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

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

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**getSplit(Long)** - Method in class com.mapmyjourney.backend.service.ExpenseSplitService  
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**getSplit(Long, Long)** - Method in class com.mapmyjourney.backend.controller.ExpenseSplitController  
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**getStartDate()** - Method in class com.mapmyjourney.backend.dto.TripCreateRequestDTO

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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  
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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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**getTripByld(Long)** - Method in class com.mapmyjourney.backend.controller.TripController  
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**getTripByld(Long)** - Method in class com.mapmyjourney.backend.service.TripService  
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**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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**getUserIdByEmail(String)** - Method in class `com.mapmyjourney.backend.service.UserService`

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

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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).

**handleAuthenticationException(AuthenticationException)** - Method in class

`com.mapmyjourney.backend.config.GlobalExceptionHandler`

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**handleBadCredentials(BadCredentialsException)** - 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`

Maneja todas las excepciones no capturadas (500).

**handleResourceNotFound(ResourceNotFoundException)** - Method in class

`com.mapmyjourney.backend.config.GlobalExceptionHandler`

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

Maneja excepciones de validación.

**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`

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  
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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

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

**run(String...)** - Method in class com.mapmyjourney.backend.config.DatabaseSeeder

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

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

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**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`

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**setNewPasswordConfirm(String)** - Method in class `com.mapmyjourney.backend.dto.UserUpdateRequestDTO`

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

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

**setProfilePicture(String)** - Method in class `com.mapmyjourney.backend.dto.UserUpdateRequestDTO`

**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.

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

**updateUserProfile(Long, UserUpdateRequestDTO)** - Method in class `com.mapmyjourney.backend.service.UserService`  
Actualiza el perfil de un usuario existente.

**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

**UserUpdateRequestDTO** - Class in `com.mapmyjourney.backend.dto`  
DTO para actualizar datos de un usuario existente.

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

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

## 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

## W

**WebConfig** - Class in com.mapmyjourney.backend.config  
Configuración Web - CORS Global Este filtro CORS se ejecuta ANTES de todos los filtros de seguridad, asegurando que el preflight (OPTIONS) sea procesado correctamente.

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