# Modelo de Datos – Plataforma de Publicidad Local (Actualizado)

## 1. Entidades y Atributos

### Usuario (User)

|  |  |
| --- | --- |
| Atributo | Tipo de Dato |
| id | Long |
| email | String (único, requerido) |
| username | String (único, requerido) |
| password | String (encriptado) |
| role | Enum (USER, ADMIN) |
| createdAt | LocalDateTime |

### Prestador (Provider)

|  |  |
| --- | --- |
| Atributo | Tipo de Dato |
| id | Long |
| name | String |
| phone | String |
| description | String |
| photoUrl | String (opcional) |
| isActive | Boolean |
| createdAt | LocalDateTime |
| rubro | Relación con Rubro (N:1) |
| address | String (opcional) |

### Rubro (Category)

|  |  |
| --- | --- |
| Atributo | Tipo de Dato |
| id | Long |
| name | String (único, requerido) |
| description | String (opcional) |
| createdAt | LocalDateTime |

### Calificación (Rating)

|  |  |
| --- | --- |
| Atributo | Tipo de Dato |
| id | Long |
| score | Integer (1 a 5) |
| createdAt | LocalDateTime |

### Comentario (Comment)

|  |  |
| --- | --- |
| Atributo | Tipo de Dato |
| id | Long |
| content | String |
| createdAt | LocalDateTime |

## 2. Relaciones entre Entidades

- User 1:N Rating

- User 1:N Comment

- Provider 1:N Rating

- Provider 1:N Comment

- Provider N:1 Rubro

- Rubro 1:N Provider

- Rating N:1 User

- Rating N:1 Provider

- Comment N:1 User

- Comment N:1 Provider

## 3. DTOs de Entrada y Salida

### User DTOs

* UserRegisterRequestDTO
* - email: String
* - username: String
* - password: String
* UserLoginRequestDTO
* - email: String
* - password: String
* UserResponseDTO
* - id: Long
* - email: String
* - username: String
* - role: String

### Provider DTOs

* ProviderRequestDTO
* - name: String
* - phone: String
* - description: String
* - rubroId: Long
* - photoUrl: String (opcional)
* - address: String (opcional)
* ProviderResponseDTO
* - id: Long
* - name: String
* - phone: String
* - description: String
* - rubro: String
* - photoUrl: String
* - averageRating: Double
* - totalRatings: Integer
* - isActive: Boolean
* - address: String (opcional)

### Rubro DTOs

* RubroRequestDTO
* - name: String
* - description: String (opcional)
* RubroResponseDTO
* - id: Long
* - name: String
* - description: String
* - createdAt: LocalDateTime

### Rating DTOs

* RatingRequestDTO
* - providerId: Long
* - score: Integer
* RatingResponseDTO
* - id: Long
* - userId: Long
* - providerId: Long
* - score: Integer
* - createdAt: LocalDateTime

### Comment DTOs

* CommentRequestDTO
* - providerId: Long
* - content: String
* CommentResponseDTO
* - id: Long
* - userId: Long
* - username: String
* - content: String
* - createdAt: LocalDateTime

### Statistics DTO

* StatisticsResponseDTO
* - totalSearches: Long
* - mostViewedProviders: List<ProviderResponseDTO>
* - bestRatedProviders: List<ProviderResponseDTO>