

# Data dictionary for Road Tracking and Repair Software

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## Enums

- Role = [Resident, Supervisor, Administrator, Mayor] -----\*Different roles that users can have.\*
- Severity = [High, Medium, Low] -----\*Different levels of severity for complaints.\*
- Status = [Completed, Ongoing, Rejected, Waiting] -----\*Current status of complaints or repairs.\*
- Priority = [High, Medium, Low] -----\*Priority levels for repairs.\*

## Users

- Name = string -----\*Name of the user.\*
- Username = string -----\*Unique username for login.\*
- Age = integer -----\*Age of the user.\*
- Phone = string? -----\*Optional phone number of the user.\*
- Password = string -----\*Password for login.\*
- Role = Role -----\*Role of the user in the system.\*
- Users = Name + Username + Age + (Phone) + Password + Role + Area + {Complaints}\* -----\*Information about users registered in the system.\*

## Complaints

- Road = string -----\*Name of the road where the issue occurred.\*
- Description = string? -----\*Optional description of the issue.\*
- Subscription = boolean -----\*Indicates whether the user subscribed to notifications for this complaint.\*
- Complaints = Area + User + Road + Severity + (Description) + Status + Subscription -----\*Information about complaints filed by users.\*

## Area

- Name = string -----\*Name of the area or locality.\*
- Address = string -----\*Address or location of the area.\*
- Region = string? -----\*Optional region of the area.\*
- Country = string? -----\*Optional country of the area.\*
- Area = Name + Address + (Region) + (Country) -----\*Information about different areas where complaints can be registered.\*

## Repairs

- Status = Status -----\*Current status of the repair.\*
- Priority = Priority -----\*Priority level of the repair.\*
- AssignedTo = User -----\*User assigned to perform the repair.\*
- Repairs = Area + AssignedTo + {Resources}\* + Status + Priority + {Complaints}\* -----\*Information about repairs scheduled for different areas.\*

## Resources

- Name = string -----\*Name or type of resource.\*
- Quantity = integer -----\*Quantity available or required for repair.\*
- Price = integer -----\*Price of the resource.\*
- Allocation = Repair -----\*Repair to which the resource is allocated.\*
- Resources = Name + Quantity + Allocation + Price -----\*Information about resources required or used for repairs.\*

## RepairSchedule

- Time = DateTime -----\*Date and time scheduled for repair.\*
- RepairSchedule = {Repairs + Time}\* -----\*Schedule for repairs, including date and time.\*

## Credentials

- Username = string -----\*Unique username for login.\*
- Password = string -----\*Password for login.\*
- Credentials = Username + Password -----\*Information about user credentials for authentication.\*

## Report

- Time = DateTime -----\*Date and time when the report was generated.\*
- Report = {Resource}\* + {Complaint}\* + {RepairSchedule}\* -----\*Information collected for generating reports.\*