**Smart City Management**

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| Service |
| Attributes:  - id: int  - Name: string  - description: string |
| Operations:  + getId(): int  + setId(id: int): void  + getName(): string  + setName(Name: string): void  + getDescription(): string  + setDescription(description: string): void |

**Class diagram**

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| Name: Citizen |
| Attribute:  - Id : String  - Name : String  - Address : String  - Contact Number :String  - Email address :String |
| Operations :  + getId(): int  + setId(id: int): void  + getName(): string  + setName(name: string): void  + getAddress(): string  + setAddress(address: string): void  + getContactNumber(): string  + setContactNumber(contact Number: string): void |

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| Infrastructure |
| Attributes:  - id: int  - Name: string  - description: string |
| Operations:  + getId(): int  + setId(id: int): void  + getName(): string  + setName(Name: string): void  + getDescription(): string  + setDescription(description: string): void |

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| Iot Device |
| Attributes:  - id: int  - Name: string  - description: string |
| Operations:  + getId(): int  + setId(id: int): void  + getName(): string  + setName(Name: string): void  + getDescription(): string  + setDescription(description: string): void |

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| Incident |
| Attributes:  - id: int  - date: int  - description: string  - Location: String  - citizen id : int |
| Operations:  + getId(): int  + getDate(): int  + getDescription(): string  + getLocation(): string  + getCitizenId(): int  + setId(id: int): void  + setDate(date: int): void  + setDescription(description: string): void  + setLocation(location: string): void  + setCitizenId(citizenId: int): void |

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| Maintenance |
| Attributes:  - id: int  - date: int  - infrastructureId: int  - description: string |
| + getId(): int  + setId(id: int): void  + getInfrastructureId(): int  + setInfrastructureId(infrastructureId: int): void  + getDescription(): string  + setDescription(description: string): void  +getDate() : int  + setDate(date : int) : void |

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| Permit |
| Attributes:  - id: int  - date\_issues: int  - date\_expiry: int  - description: string  - citizen\_id: int |
| Operations:  + getDateIssues(): int  + getDateExpiry(): int  + getDescription(): string  + getCitizenId(): int  + setId(id: int): void  + setDateIssues(date\_issues: int): void  + setDateExpiry(date\_expiry: int): void  + setDescription(description: string): void  + setCitizenId(citizen\_id: int): void  + toString(): string |

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| Complaint |
| Attributes:  - id: int  - date: int  - description: string  - Location: String  - citizen id : int |
| Operations:  + getId(): int  + getDate(): int  + getDescription(): string  + getLocation(): string  + getCitizenId(): int  + setId(id: int): void  + setDate(date: int): void  + setDescription(description: string): void  + setLocation(location: string): void  + setCitizenId(citizenId: int): void |

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| Analytics |
| Attributes:  - id: int  - description: string |
| + getId(): int  + setId(id: int): void  + getDescription(): string  + setDescription(description: string): void |

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| Dashboard |
| Attributes:  - id: int  - description: string |
| + getId(): int  + setId(id: int): void  + getDescription(): string  + setDescription(description: string): void |