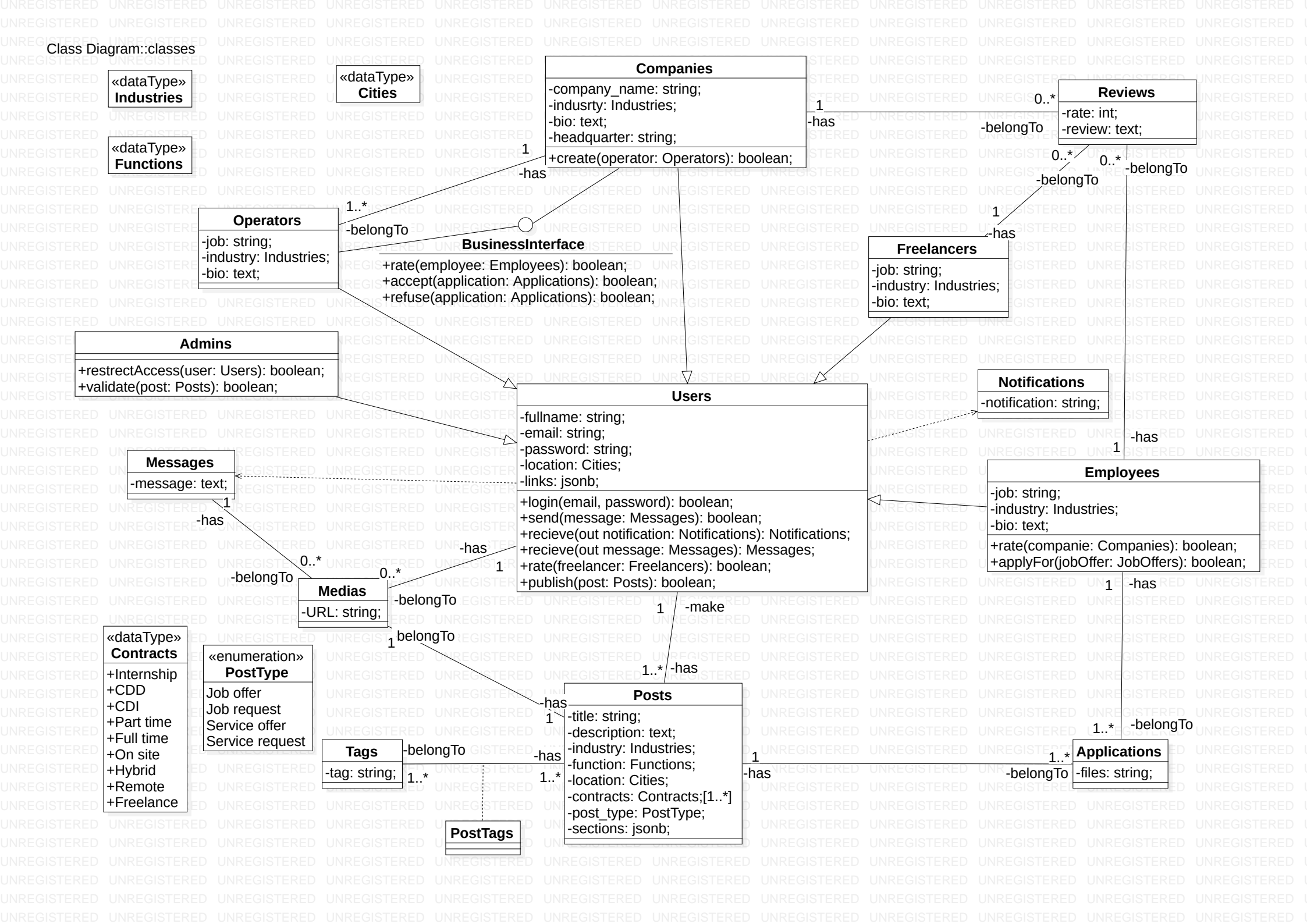


```

classDiagram
    class Industries {
        <<data type>>
    }
    class Cities {
        <<data type>>
    }
    class Functions {
        <<data type>>
    }
    class Operators {
        -job: string
        -industry: Industries
        -bio: text
    }
    class Admins {
        +restrectAccess(user: Users): boolean
        +validate(post: Posts): boolean
    }
    class Messages {
        -message: text
    }
    class Medias {
        -URL: string
    }
    class Tags {
        -tag: string
    }
    class PostTags {
    }
    class PostType {
        <<enumeration>>
        Job offer
        Job request
        Service offer
        Service request
    }
    class Companies {
        -company_name: string
        -indusrtly: Industries
        -bio: text
        -headquarter: string
        +create(operator: Operators): boolean
    }
    class BusinessInterface {
        +rate(employee: Employees): boolean
        +accept(application: Applications): boolean
        +refuse(application: Applications): boolean
    }
    class Users {
        -fullname: string
        -email: string
        -password: string
        -location: Cities
        -links: jsonb
        +login(email, password): boolean
        +send(message: Messages): boolean
        +recieve(out notification: Notifications): Notifications
        +recieve(out message: Messages): Messages
        +rate(freelancer: Freelancers): boolean
        +publish(post: Posts): boolean
    }
    class Freelancers {
        -job: string
        -industry: Industries
        -bio: text
    }
    class Notifications {
        -notification: string
    }
    class Employees {
        -job: string
        -industry: Industries
        -bio: text
        +rate(companie: Companies): boolean
        +applyFor(jobOffer: JobOffers): boolean
    }
    class Posts {
        -title: string
        -description: text
        -industry: Industries
        -function: Functions
        -location: Cities
        -contracts: Contracts[1..*]
        -post_type: PostType
        -sections: jsonb
    }
    class Applications {
        -files: string
    }
    Industries --> Companies
    Cities --> Companies
    Functions --> Companies
    Operators --> Companies : 1..* -belongsTo
    Operators --> BusinessInterface : 1..* -belongsTo
    Admins --|> Users
    Messages ..> Users : 1 -has
    Medias --> Users : 0..* -belongsTo
    Medias --> Posts : 0..* -belongsTo
    Tags --> Posts : 1..* -belongsTo
    PostTags ..> Posts : 1 -belongsTo
    PostType --> Posts
    Companies --> Reviews : 1 -has
    Reviews --> Companies : 0..* -belongsTo
    Reviews --> Employees : 0..* -belongsTo
    Employees --> Reviews : 0..* -belongsTo
    Freelancers --> Users : 1 -has
    Notifications --> Users : 1 -has
    Employees --> Employees : 1 -has
    Employees --> Applications : 1..* -belongsTo
    Applications --> Employees : 1..* -belongsTo
    Posts --> Posts : 1..* -has
    Posts --> Applications : 1..* -has
    Posts --> Medias : 1 -make
    
```



The diagram illustrates the functional requirements of the JobFul system. It features six actors: Visitor, User, Talent, Entreprise, Operator, and Admin. The system is divided into several functional areas, each represented by a set of use cases. The relationships between actors and use cases are as follows:

- Visitor** is associated with **Registration**.
- User** is associated with **Change the role**, **Manage service requests**, **Consult service offers**, **search**, **rate services**, **Manage profile**, and **Consult profiles**.
- Talent** is associated with **Manage job requests**, **Consult job offers**, **search**, **apply**, **Consult service requests**, **search**, and **apply**.
- Entreprise** is associated with **Manage service offers**, **Manage operators**, **Manage posts**, **Consulter les demandes d'emploi**, and **Consulter des profiles de talents**.
- Operator** is associated with **Gérer les candidatures**, **accepter**, and **refuser**.
- Admin** is associated with **Gérer l'accès des utilisateurs** and **Gérer les publicités-les offres-les demandes**.

The use cases are further detailed with include and extend relationships:

- Consult service offers** includes **search**, **rate services**, and **Manage profile**.
- Consult job offers** includes **search**, **apply**, and **Consult service requests**.
- Consult service requests** includes **search** and **apply**.
- Manage job requests** includes **Consult job offers** and **Consult service requests**.
- Manage service offers** includes **Manage operators** and **Manage posts**.
- Manage operators** includes **Manage posts**.
- Manage posts** includes **Consulter les demandes d'emploi** and **Consulter des profiles de talents**.
- Consulter les demandes d'emploi** includes **Consulter des profiles de talents**.
- Consulter des profiles de talents** includes **Gérer les candidatures**.
- Gérer les candidatures** includes **accepter** and **refuser**.
- Gérer l'accès des utilisateurs** includes **Gérer les publicités-les offres-les demandes**.
- Gérer les publicités-les offres-les demandes** includes **Gérer l'accès des utilisateurs**.

