

Chiave di lettura

Totale

Parziale

1:1

1:N

N:N

Schema ad oggetti

EURResearchHub

```
classDiagram
    class Users {
        password string
        name string
        surname string
        email string
        profile_picture string
        <<Invariant>> {
            legth(self.password) >= 8 AND self.email ~* '[A-Za-z0-9._%+~*@[A-Za-z0-9.-]+.[A-Z]{2,}$'
        }
    }
    class Messages {
        text string
        date timestamp
    }
    class Evaluators {
    }
    class Researchers {
        Affiliation string
    }
    class Projects {
        title string
        status enum {
            Approved
            Submitted for evaluation
            Require changes
            Not approved
        }
        description string
        date timestamp
    }
    class EvaluationReports {
        comment string
        date timestamp
        file_path string
    }
    class Documents {
        file_path string
    }
    class Document_versions {
        description string
        date timestamp
    }
    class Document_types {
        name string
        description string
    }
    class Evaluation_windows {
        from date
        to date
        <<Invariant>> {
            self.from <= self.to
        }
    }

    Users --> Messages : Send
    Messages --> Projects : Refer to
    Evaluators --> Projects : Access
    Researchers --> Projects : Create
    Evaluators --> EvaluationReports : Produce
    Projects --> Documents : Contain
    Documents --> EvaluationReports : Is relative to
    Documents --> Document_types : Is
    Documents --> Document_versions : Has
    Projects --> Evaluation_windows : Participate
```

**Users**

|                 |        |
|-----------------|--------|
| password        | string |
| name            | string |
| surname         | string |
| email           | string |
| profile_picture | string |

**Messages**

|      |           |
|------|-----------|
| text | string    |
| date | timestamp |

**Evaluators**

**Researchers**

|             |        |
|-------------|--------|
| Affiliation | string |
|-------------|--------|

**Projects**

|             |                                                                            |
|-------------|----------------------------------------------------------------------------|
| title       | string                                                                     |
| status      | enum { Approved, Submitted for evaluation, Require changes, Not approved } |
| description | string                                                                     |
| date        | timestamp                                                                  |

**EvaluationReports**

|           |           |
|-----------|-----------|
| comment   | string    |
| date      | timestamp |
| file_path | string    |

**Documents**

|           |        |
|-----------|--------|
| file_path | string |
|-----------|--------|

**Document\_versions**

|             |           |
|-------------|-----------|
| description | string    |
| date        | timestamp |

**Document\_types**

|             |        |
|-------------|--------|
| name        | string |
| description | string |

**Evaluation\_windows**

|      |      |
|------|------|
| from | date |
| to   | date |

**Relationships:**

- Send:** Users to Messages (Total to Total)
- Refer to:** Messages to Projects (Total to Total)
- Access:** Evaluators to Projects (Total to Total)
- Create:** Researchers to Projects (Total to Total)
- Produce:** Evaluators to EvaluationReports (Total to Total)
- Contain:** Projects to Documents (Total to Total)
- Is relative to:** Documents to EvaluationReports (Total to Total)
- Is:** Documents to Document\_types (Total to Total)
- Has:** Documents to Document\_versions (Total to Total)
- Participate:** Projects to Evaluation\_windows (Total to Total)

**Constraints:**

- Users Invariant:** { legth(self.password) >= 8 AND self.email ~\* '[A-Za-z0-9.\_%+~\*@[A-Za-z0-9.-]+.[A-Z]{2,}\$' }
- Evaluation\_windows Invariant:** { self.from <= self.to }