**Software Architecture  
M.T.A.**

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|  |
| --- |
| User |
| U\_Id |
| First\_name |
| Last\_name |
| Email |
| Username |
| Password |
| Phonenumber |
| Type |

|  |
| --- |
| Contact |
| Cnt\_Id |
| First\_name |
| Last\_name |
| Email |
| Subject |
| Context |

1. **Use Case:**
2. **Class Diagrams:**

|  |
| --- |
| Employee |
| E\_Id |
| First\_name |
| Last\_name |
| Type |
| CNP |
| Age |
| Contract\_duration |
| Salary |

|  |
| --- |
| Contract |
| Con\_Id |
| Type |
| Suplier\_name |
| Duration |
| Cost |

|  |
| --- |
| Apartment |
| Ap\_Id |
| Ap\_number |
| Tenant\_name |
| No.\_people |
| No.\_rooms |
| Cold\_water |
| Hot\_water |
| Electricity |
| Trash |
| Extrapayments |
| Payment\_debt\_curent\_month |
| totalpaymentdebt |

|  |
| --- |
| PaymentReport |
| P\_Id |
| Employees\_salary |
| Contracts\_cost |
| Repairing\_fund |
| Total\_pay\_apps\_debt\_curent\_month |
| Total\_pay\_apps\_debt |
| Other\_pays |
| Expense |
| Income |
| Profit |

|  |
| --- |
| Association |
| As\_id |
| Name |
| Address |
| Users |
| Contracts |
| Employees |
| Apartments |
| Payment\_report |

|  |
| --- |
| Address |
| Adr\_Id |
| Address1 |
| City |
| State |

|  |
| --- |
| Pool |
| P\_Id |
| Pool\_creator |
| Subject |
| Context |
| Options |

1. **Relational Database Model**