Attributes Regarding Person Registration details (Parent Class)

- 1. Id (primary key, auto incremented, int)
- 2. Username (not null, string, validation[characters only, min length(10)]
- 3. Password (not null, string, validation[characters + at least 1 symbol + at least 1 digit, min length(10)]
- 4. firstName (not null, string, validation[characters only])
- 5. lastName (not null, string, validation[characters only])
- 6. birthdate (not null, date)
- 7. gender (not null)
- 8. email (not null, string, validation[email])
- 9. phone(not null, string, validation[min length(10), max length(10)]
- 10. Address(not null, string)
- 11. Role (not null, string)

Attributes Regarding User Registration details (Child Class of Person)

(Inherit All data from parent class)

Attributes Regarding Builders Registration details (Child Class of Person)

(Inherit All data from parent class)

All attributes should be not null

- 1. years of experience (int, validation[min length(0), max length(20)])
- 2. Rate per month (decimal, validation[min (0)])
- Construction type(ENUM)=>[WAREHOUSE,HOUSE,APARTMENT,MALL] (checkbox)(string)
- 4. Emergency contact number(not null, string, validation[min length(10), max length(10)]
- 5. Availability (Status) => ENUM (string)[YES,NO]

Required Attributes for Admin Registration details (Child Class of Person)

(Inherit All data from parent class)

- 1. last_login: Timestamp of last login (dateTime)
- 2. last password change: Timestamp of last password change (dateTime)

Required Attributes for Company Details (After login into builder's portfolio)

- 1. Builder Id (Association) [Builder has a Company](foreign key)
- 2. company_id (primary key, autoincremented,int)
- 3. name (not null, string, validation[characters only])
- 4. address (not null, string)
- 5. contact_details
 - a. phone_number (not null, string, validation[min length(10), max length(10)]
 - b. email (not null, string, validation[email])
 - c. website(not null, string, validation[url])
- 6. founding_date (not null, date)
- 7. license_number (not null, int, validation[min length(5),max length(5)])
- 8. Construction type(ENUM)=>[WAREHOUSE,HOUSE,APARTMENT,MALL] (checkbox)(string)
- 9. annual_revenue(not null, decimal)
- 10. number_of_employees (not null,int,validation[min(5)])

Required Attributes for Project

- 1. project_id (Primary key, autoincremented,int)
- 2. builder_id [Builder has a project](foreign key)
- 3. user_id [User has a project] (foreign key)
- 4. project_detail_id (bi-directional association) (foreign key)
- 5. project_name (not null, string, validation[characters only])
- 6. pincode (not null, int, validation[min length(6), max length(6)])
- 7. start_date (not null, date)
- 8. end_date (ENUM) (not null[auto update as per ENUM value of type of construction], date)
- 9. project_status (ENUM) => [COMPLETE, PENDING, IN_PROGRESS] (not null, string)
- 10. project description(not null, string)
- 11. Total Price(not null, decimal[Auto generate as per (rate*area per square feet)])

Required Attributes for Construction Details

- 1. Project Id (bi-directional association) (foreign key)
- 2. Project detail id (primary key, autoincremented, int)
- 3. Area in SqFt (not null, double)
- 4. Construction type(ENUM) =>[WAREHOUSE,HOUSE,APARTMENT,MALL](not null, string)
- 5. Builder Name (not null, string(drop down list from builder's table))
- 6. Construction Description(not null, string)

Required Attributes for Builder's Reviews

- 1. review id (primary key, autoincremented, int)
- 2. user_id (Association) (foreign key) [builder reviews has a user_id]
- 3. builder_id(Association) (foreign key) [builder_id has reviews]
- 4. rating (not null, int, validation[min(0),max(5))])
- 5. review (not null, string)
- 6. review_date (not null, date)