**Command:**

**Create Project:** composer create-project --prefer-dist laravel/laravel pmanager

**Start Server:** php artisan serve

Php artisan migration

**Create Model, Migration, and Controller:**

php artisan make:model Company –mcr

php artisan make:model Project –mcr

php artisan make:model Task –mcr

php artisan make:model Comment –mcr

php artisan make:model Role –mcr

php artisan make:model ProjectUser –m

php artisan make:model TaskUser –m

**Database Configuration:**

DB\_DATABASE=pmanager

DB\_USERNAME=root

DB\_PASSWORD=

**Migrations:**

**users**

if (!Schema::hasTable('users')) {

Schema::create('users', function (Blueprint $table) {

$table->bigIncrements('id');

$table->string('name');

$table->string('email')->unique();

$table->timestamp('email\_verified\_at')->nullable();

$table->string('password');

$table->string('first\_name')->nullable();

$table->string('middle\_name')->nullable();

$table->string('last\_name')->nullable();

$table->string('city')->nullable();

$table->integer('role\_id')->unsigned();

$table->rememberToken();

$table->timestamps();

});

}

**companies**

Schema::create('companies', function (Blueprint $table) {

$table->bigIncrements('id');

$table->string('name');

$table->longText('description')->nullable();

$table->bigInteger ('user\_id')->unsigned();

$table->foreign('user\_id')->references('id')->on('users');

$table->timestamps();

});

**projects**

Schema::create('projects', function (Blueprint $table) {

$table->bigIncrements('id');

$table->string('name');

$table->longText('description')->nullable();

$table->bigInteger ('user\_id')->unsigned();

$table->bigInteger ('company\_id')->unsigned()->nullable();

$table->integer('days')->unsigned()->nullable();

$table->foreign('user\_id')->references('id')->on('users');

$table->foreign('company\_id')->references('id')->on('companies');

$table->timestamps();

});

**tasks**

Schema::create('tasks', function (Blueprint $table) {

$table->bigIncrements('id');

$table->string('name');

$table->longText('description');

$table->bigInteger ('company\_id')->unsigned()->nullable();

$table->bigInteger ('project\_id')->unsigned();

$table->bigInteger ('user\_id')->unsigned();

$table->integer('days')->unsigned()->nullable();

$table->integer('hours')->unsigned()->nullable();

$table->foreign('user\_id')->references('id')->on('users');

$table->foreign('company\_id')->references('id')->on('companies');

$table->foreign('project\_id')->references('id')->on('projects');

$table->timestamps();

});

**roles**

Schema::create('tasks', function (Blueprint $table) {

$table->bigIncrements('id');

$table->string('name');

$table->timestamps();

});

**comments**

Schema::create('comments', function (Blueprint $table) {

$table->bigIncrements('id');

$table->longText('body');

$table->string('url', 255)->nullable();

$table->integer('user\_id')->unsigned();

$table->integer('commentable\_id')->unsigned();

$table->string('commentable\_type');

$table->timestamps();

});

**Project\_user**

Schema::create('projects\_users', function (Blueprint $table) {

$table->bigIncrements('id');

$table->bigInteger('project\_id')->unsigned();

$table->bigInteger('user\_id')->unsigned();

$table->foreign('user\_id')->references('id')->on('users');

$table->foreign('project\_id')->references('id')->on('projects');

$table->timestamps();

});

**Task\_user**

Schema::create('task\_users', function (Blueprint $table) {

$table->bigIncrements('id');

$table->bigInteger ('task\_id')->unsigned();

$table->bigInteger ('user\_id')->unsigned();

$table->foreign('user\_id')->references('id')->on('users');

$table->foreign('task\_id')->references('id')->on('tasks');

$table->timestamps();

});