

# Modrik Performance Report

## Main performance problems

- Loading all Models relation globally using (With) attribute :
- Updating farms productivity using loops which cause (N+1) problem
- creating farms productivity using loops which cause (N+1) problem

## Farms Index page

- before refactor

Attached Log file : 42 query

Debug bar statistics:

Messages	Timeline	Exceptions	Views	Route	Queries	Models	Gate	Session	Request	GET admin/farms	28MB	630ms	8.1.17	
21 statements were executed														
select * from 'users' where 'id' = 1 and 'users'.'deleted_at' is null limit 1														
select 'permissions', 'model_has_permissions', 'model_id' as 'pivot_model_id', 'model_has_permissions', 'permission_id' as 'pivot_permission_id', 'model_has_permissions', 'model_type' as 'pivot_model_type' from 'permissions' inner join 'model_has_permissions' on 'permissions', 'id' = 'model_has_permissions', 'permission_id' where 'model_has_permissions', 'model_id' = 1 and 'model_has_permissions', 'model_type' = 'App\Models\User'														
select 'roles', 'model_has_roles', 'model_id' as 'pivot_model_id', 'model_has_roles', 'role_id' as 'pivot_role_id', 'model_has_roles', 'model_type' as 'pivot_model_type' from 'roles' inner join 'model_has_roles' on 'roles', 'id' = 'model_has_roles', 'role_id' where 'model_has_roles', 'model_id' in (1) and 'model_has_roles', 'model_type' = 'App\Models\User'														
select * from 'city_users' where 'city_users', 'user_id' = 1 and 'city_users', 'user_id' is not null														
select 'id', 'name' from 'areas' where 'is_active' = 1 and 'areas', 'deleted_at' is null														
select * from 'cities' where 'cities', 'area_id' in (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13) and 'cities', 'deleted_at' is null														
select 'id', 'name' from 'cities' where 'is_active' = 1 and 'cities', 'deleted_at' is null														
select * from 'users' where exists (select * from 'roles' inner join 'model_has_roles' on 'roles', 'id' = 'model_has_roles', 'role_id' where 'users', 'id' = 'model_has_roles', 'model_id' and 'model_has_roles', 'model_type' = 'App\Models\User' and 'name' = 'مراقب') and 'users', 'deleted_at' is null														
select count(*) as aggregate from 'farms' where 'farms', 'deleted_at' is null														
select * from 'farms' where 'farms', 'deleted_at' is null order by 'id' desc limit 9/9 offset 0														

After simple refactor

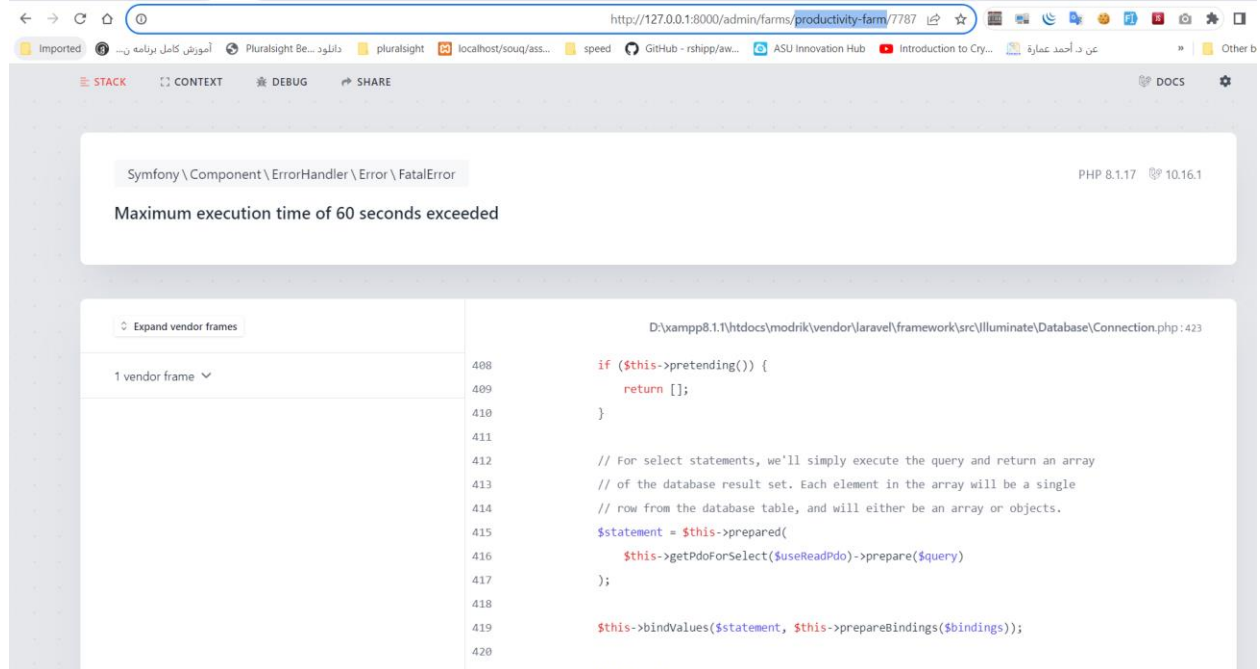
Attached Log file : 23 query

Messages	Timeline	Exceptions	Views	Route	Queries	Models	Gate	Session	Request	GET admin/farms	27MB	326ms	8.1.17	
13 statements were executed														
select * from 'users' where 'id' = 1 and 'users', 'deleted_at' is null limit 1														
select 'permissions', 'model_has_permissions', 'model_id' as 'pivot_model_id', 'model_has_permissions', 'permission_id' as 'pivot_permission_id', 'model_has_permissions', 'model_type' as 'pivot_model_type' from 'permissions' inner join 'model_has_permissions' on 'permissions', 'id' = 'model_has_permissions', 'permission_id' where 'model_has_permissions', 'model_id' = 1 and 'model_has_permissions', 'model_type' = 'App\Models\User'														
select 'roles', 'model_has_roles', 'model_id' as 'pivot_model_id', 'model_has_roles', 'role_id' as 'pivot_role_id', 'model_has_roles', 'model_type' as 'pivot_model_type' from 'roles' inner join 'model_has_roles' on 'roles', 'id' = 'model_has_roles', 'role_id' where 'model_has_roles', 'model_id' in (1) and 'model_has_roles', 'model_type' = 'App\Models\User'														
select * from 'city_users' where 'city_users', 'user_id' = 1 and 'city_users', 'user_id' is not null														
select 'id', 'name' from 'areas' where 'is_active' = 1 and 'areas', 'deleted_at' is null														
select * from 'cities' where 'cities', 'area_id' in (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13) and 'cities', 'deleted_at' is null														
select * from 'users' where exists (select * from 'roles' inner join 'model_has_roles' on 'roles', 'id' = 'model_has_roles', 'role_id' where 'users', 'id' = 'model_has_roles', 'model_id' and 'model_has_roles', 'model_type' = 'App\Models\User')														

## Productivity with 1 palm type (one type of dates)

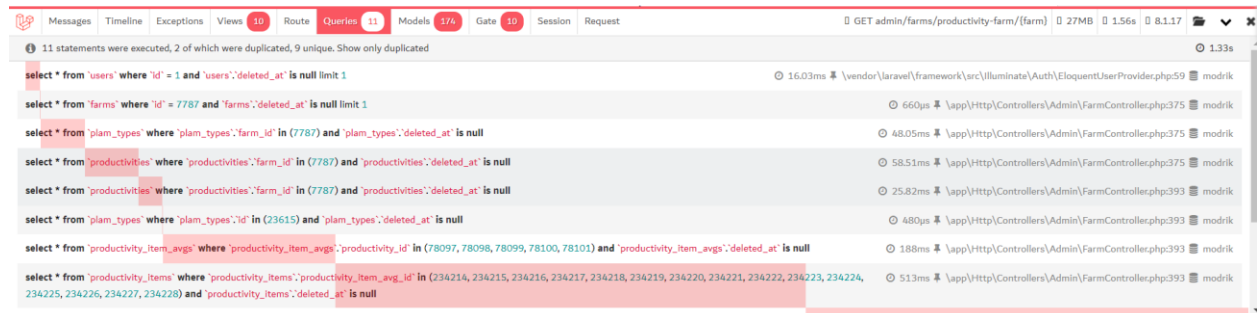
- before refactor

Attached Log file : 382 query



- after simple refactor

Attached Log file : 27 query



- before refactor

Messages 186 Timeline Exceptions Views 10 Routes 188 Queries 188 Models 697 Gate 10 Session Request

POST admin/farms/productivity-farm-update/{farm} 30MBs 20.03s 8.117

186 statements were executed, 82 of which were duplicated, 104 unique. Show only duplicated

```
select * from `farms` where `id` = '7787' and `farms`.`deleted_at` is null limit 1
select * from `farmers` where `farmers`.`id` in (7796) and `farmers`.`deleted_at` is null
select * from `areas` where `areas`.`id` in (4) and `areas`.`deleted_at` is null
select * from `cities` where `cities`.`area_id` in (4) and `cities`.`deleted_at` is null
select * from `cities` where `cities`.`id` in (55) and `cities`.`deleted_at` is null
select * from `plam_types` where `plam_types`.`farm_id` in (7787) and `plam_types`.`deleted_at` is null
select * from `pests` where `pests`.`farm_id` in (7787) and `pests`.`deleted_at` is null
select * from `sales` where `sales`.`farm_id` in (7787) and `sales`.`deleted_at` is null
select * from `laborers` where `type` = 'عمالة دائمة' and `laborers`.`farm_id` in (7787) and `laborers`.`deleted_at` is null
select * from `laborers` where `type` = 'عمالة مؤقتة' and `laborers`.`farm_id` in (7787) and `laborers`.`deleted_at` is null
select * from `approval_codes` where `approval_codes`.`farm_id` in (7787) and `approval_codes`.`deleted_at` is null
select * from `users` where `id` = 1 and `users`.`deleted_at` is null limit 1
update `farms` set `total_productivity` = 718.042, `farms`.`updated_at` = '2023-09-01 10:37:50' where `id` = 7787
```