GIT

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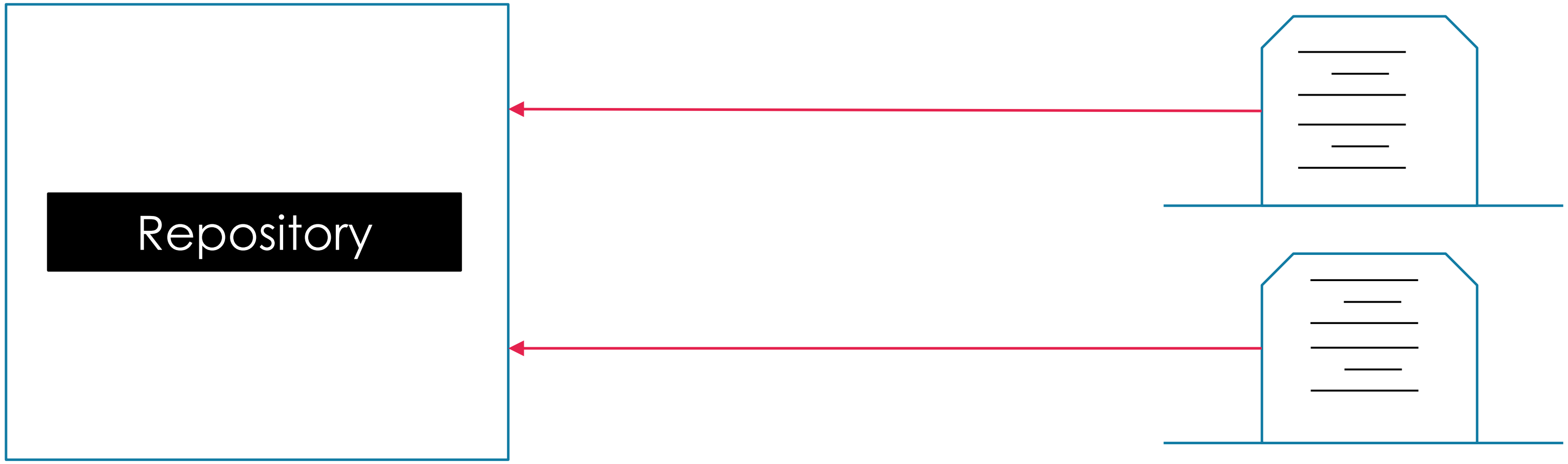
What is Version Control System & its benefits…

- Process of tracking & managing changes to software code.
- Tracks changes in code in a special DB called repository.
- Easier collaboration between developers.



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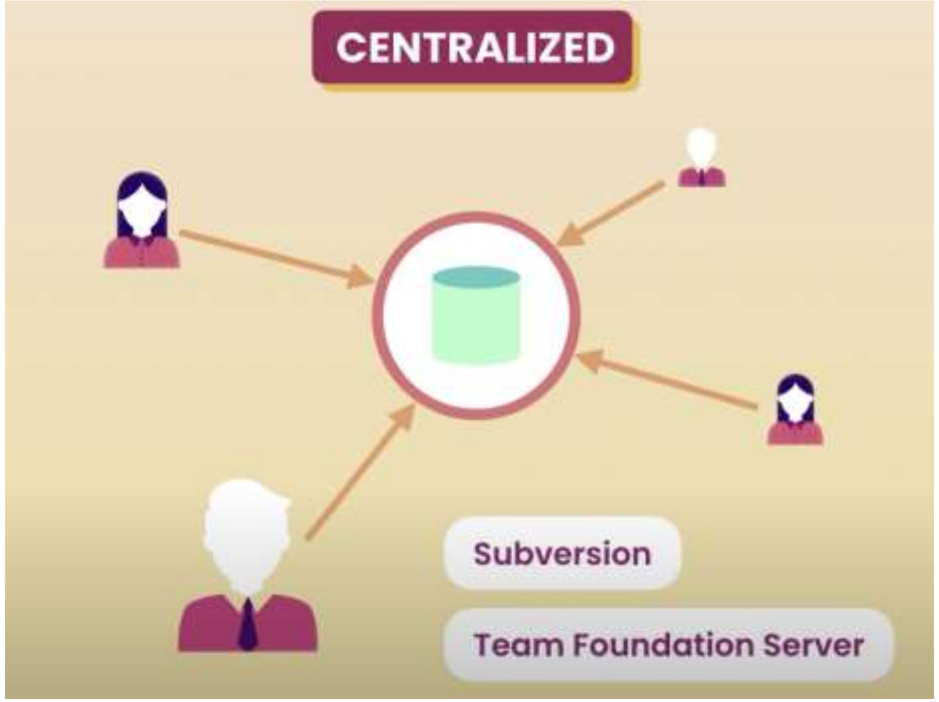
Centralized Version Control System…

- Comprise of Single repository.
- Examples CVS, SVN, Preforce



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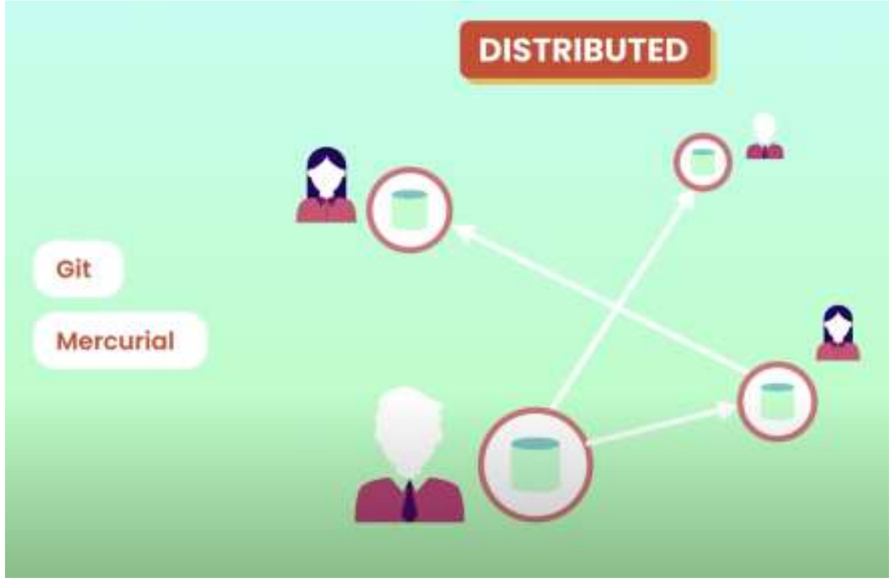
Distributed Version Control System…

- Does not rely on single server.
- Every team member has a copy of the project in their local machine.



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Git Introduction…

- Most popular Distributed Version Control system.
- Git is a free and open-source distributed version control system
- Source project originally developed in 2005 by Linus Torvalds

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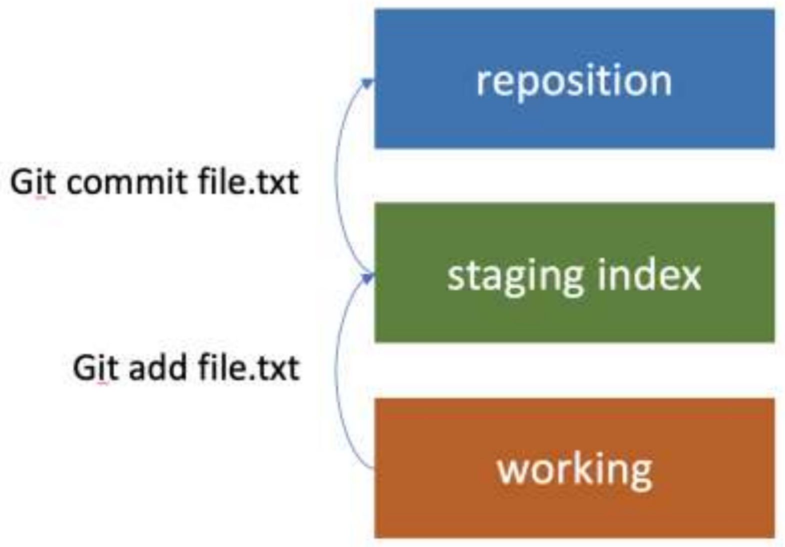
How Git Works…

- Git has a three-layer tier architecture.
- The three layers are Working directory, Staging area and Local repository.



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Git directory…

- .git
  - o HEAD – A pointer to the current branch
  - o Config – Contains all configuration preferences
  - o Description – description of the project
  - o Index – staging area between working directory and repo
  - o Logs – keeps record to changes that are made in ref
  - o Objects – all data (commits, trees, tags) are stored here
  - o Hooks – shell script that are invoked after executing a command
  - o Refs – holds your local branch remote branch and tags

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Git commands…

- git config, git init, git clone
- git status, git add, git commit
- git branch, git checkout, git remote
- git fetch, git merge, git pull, git push, git log
- git rebase, git blame, git bisect, git reset, git cherry-pick
- git tag, git clean, git diff

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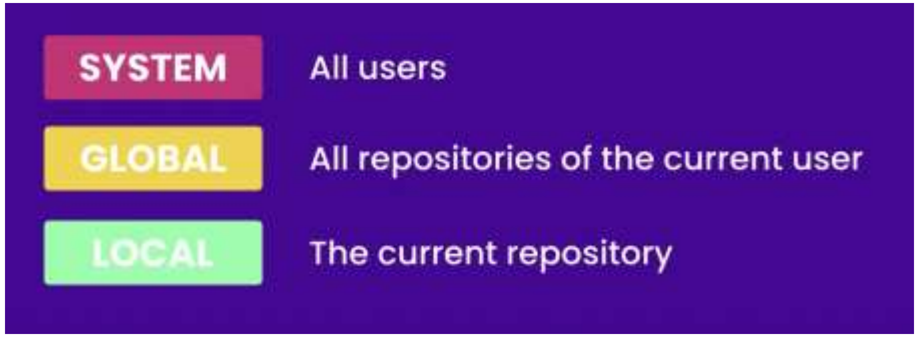
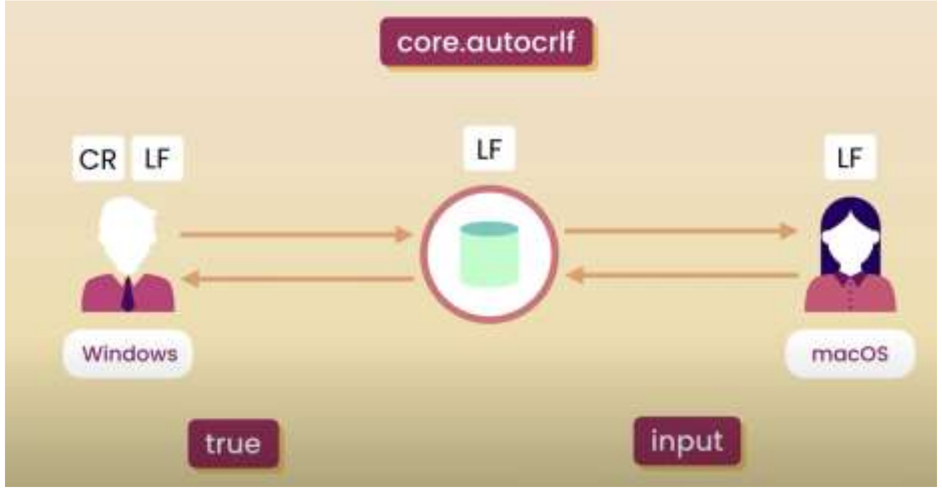
```
git config <--global|--system|--local >
$ git config –global user.name “Your name”
$ git config –global user.email “Your email”
$ git config --global core.editor “code --wait”
$ git config --global -e
$ git config --global core.autorlf <input  |  true>
```



SYSTEM	All users
GLOBAL	All repositories of the current user
LOCAL	The current repository



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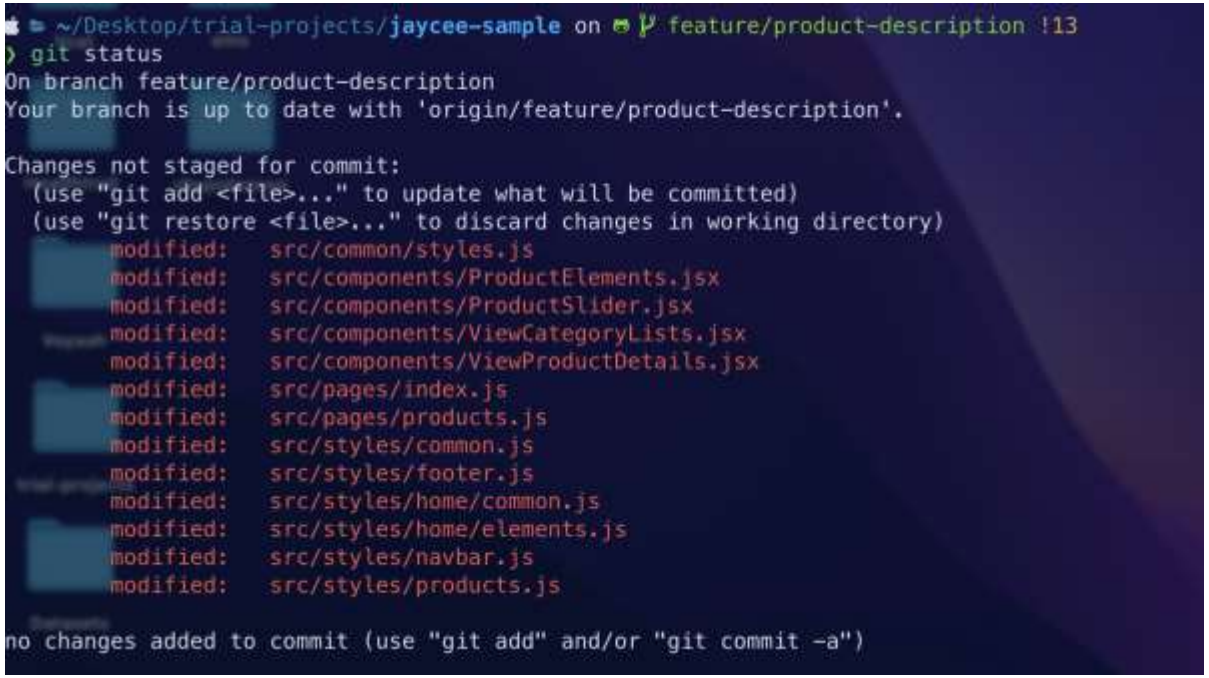
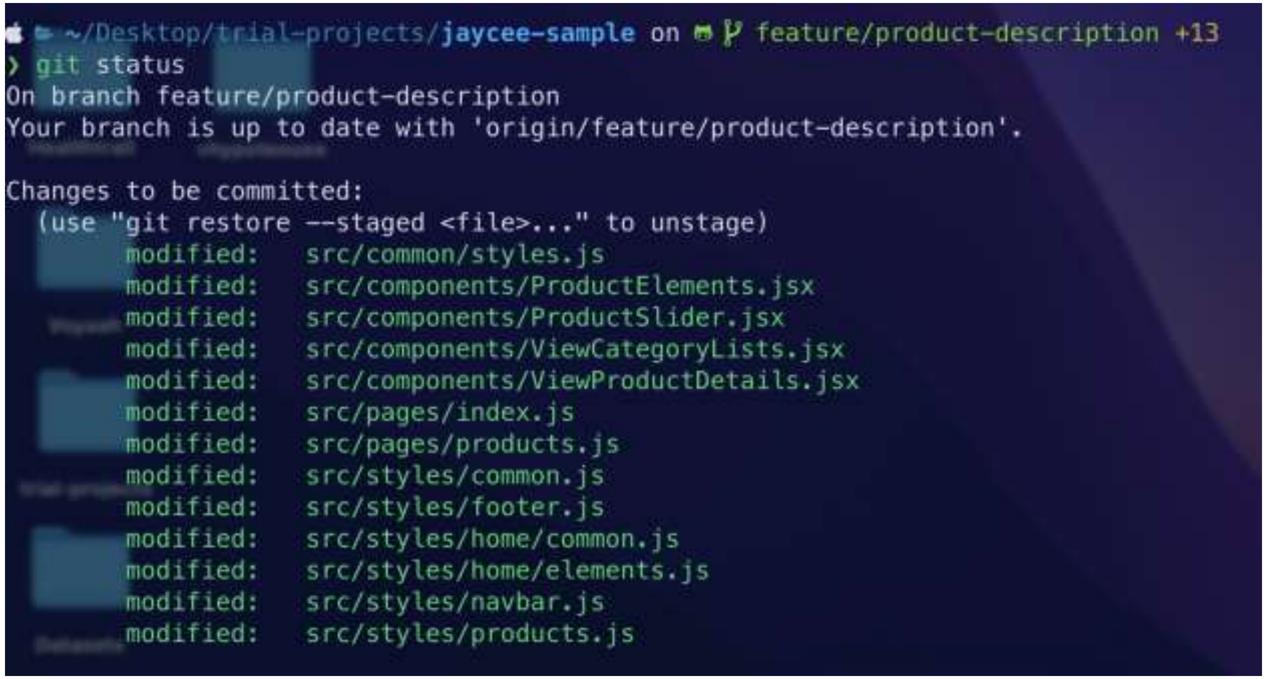


```
~/Desktop/trial-projects/jaycee-sample on feature/product-description !13
❯ git status
On branch feature/product-description
Your branch is up to date with 'origin/feature/product-description'.

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   src/common/styles.js
        modified:   src/components/ProductElements.jsx
        modified:   src/components/ProductSlider.jsx
        modified:   src/components/ViewCategoryLists.jsx
        modified:   src/components/ViewProductDetails.jsx
        modified:   src/pages/index.js
        modified:   src/pages/products.js
        modified:   src/styles/common.js
        modified:   src/styles/footer.js
        modified:   src/styles/home/common.js
        modified:   src/styles/home/elements.js
        modified:   src/styles/navbar.js
        modified:   src/styles/products.js

no changes added to commit (use "git add" and/or "git commit -a")
```



```
~/Desktop/trial-projects/jaycee-sample on feature/product-description +13
❯ git status
On branch feature/product-description
Your branch is up to date with 'origin/feature/product-description'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   src/common/styles.js
        modified:   src/components/ProductElements.jsx
        modified:   src/components/ProductSlider.jsx
        modified:   src/components/ViewCategoryLists.jsx
        modified:   src/components/ViewProductDetails.jsx
        modified:   src/pages/index.js
        modified:   src/pages/products.js
        modified:   src/styles/common.js
        modified:   src/styles/footer.js
        modified:   src/styles/home/common.js
        modified:   src/styles/home/elements.js
        modified:   src/styles/navbar.js
        modified:   src/styles/products.js
```

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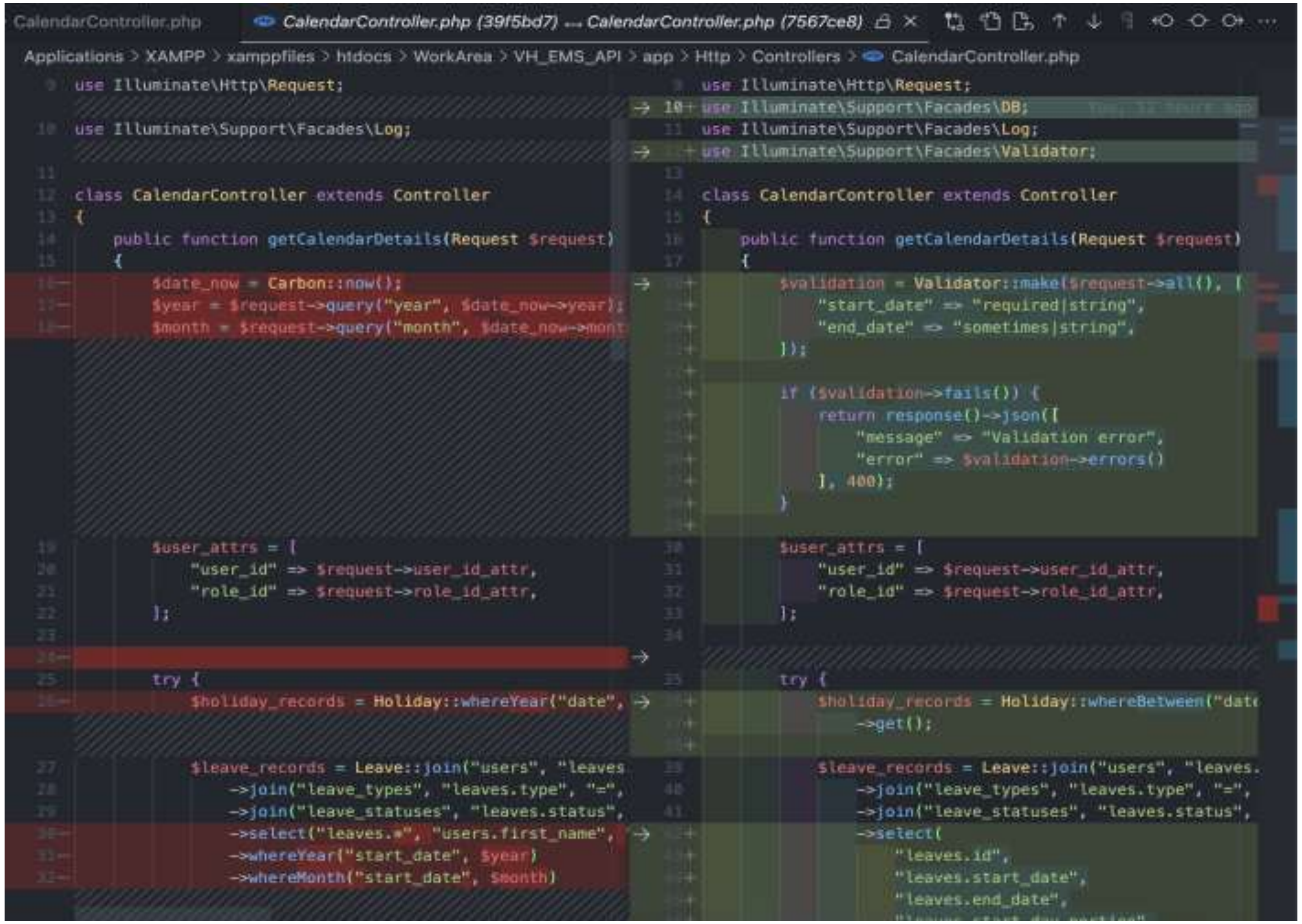
CalendarController.php
CalendarController.php (39f5bd7) ↔ CalendarController.php (7567ce8)
Applications > XAMPP > xamppfiles > htdocs > WorkArea > VH_EMS_API > app > Http > Controllers > CalendarController.php

```php
use Illuminate\Http\Request;

use Illuminate\Support\Facades\Log;


class CalendarController extends Controller
{
    public function getCalendarDetails(Request $request)
    {
-       $date_now = Carbon::now();
-       $year = $request->query("year", $date_now->year);
-       $month = $request->query("month", $date_now->mont

        $user_attrs = [
            "user_id" => $request->user_id_attr,
            "role_id" => $request->role_id_attr,
        ];

-
        try {
-           $holiday_records = Holiday::whereYear("date",

            $leave_records = Leave::join("users", "leaves
                ->join("leave_types", "leaves.type", "=",
                ->join("leave_statuses", "leaves.status",
-               ->select("leaves.*", "users.first_name",
-               ->whereYear("start_date", $year)
-               ->whereMonth("start_date", $month)
```

```php
use Illuminate\Http\Request;
+ use Illuminate\Support\Facades\DB;
use Illuminate\Support\Facades\Log;
+ use Illuminate\Support\Facades\Validator;

class CalendarController extends Controller
{
    public function getCalendarDetails(Request $request)
    {
+       $validation = Validator::make($request->all(), [
+           "start_date" => "required|string",
+           "end_date" => "sometimes|string",
+       ]);
+
+       if ($validation->fails()) {
+           return response()->json([
+               "message" => "Validation error",
+               "error" => $validation->errors()
+           ], 400);
+       }
+
        $user_attrs = [
            "user_id" => $request->user_id_attr,
            "role_id" => $request->role_id_attr,
        ];


        try {
+           $holiday_records = Holiday::whereBetween("date
+               ->get();
+
            $leave_records = Leave::join("users", "leaves.
                ->join("leave_types", "leaves.type", "=",
                ->join("leave_statuses", "leaves.status",
+               ->select(
+                   "leaves.id",
+                   "leaves.start_date",
+                   "leaves.end_date",
```

Q
A

THANK
YOU!