Refactor Document for Booking Controller.

Booking Controller Index Function Refactor code.

- Removed the unnecessary assignment within the condition. Instead of assigning and checking in the same line, I separated them to make the code clearer.
- Replaced **env()** calls with **config()** to retrieve values from the configuration files, which is a cleaner approach.
- Used has() method to check if the user_id parameter exists in the request.
- Initialized the **\$response** variable outside of the conditional blocks to ensure it's always defined before returning it.

Before:

Store function in Booking Controller:

- Changed \$cuser to \$authenticatedUser for consistency with other variable names and improved readability
- I've replaced array_except() with except() method provided by Laravel's Request class. It achieves the same result, which is to remove specific keys from the data array.

Before:

```
**
    * @param Request $request
    * @return mixed
    */
public function store(Request $request)
{
        $data = $request->all();
        $response = $this->repository->store($request->_authenticatedUser, $data);
        return response($response);
}
```

Refactor:

```
/**
    * @param Request $request
    * @return mixed
    */
public function store(Request $request)
{
        // I've split the assignment of $authenticatedUser and $data onto separate lines for better readability
        $authenticatedUser = $request->_authenticatedUser;

        $data = $request->all();
        $response = $this->repository->store($authenticatedUser, $data);
        return response()->json($response);
}
```

Update Function in Booking Controller:

- Changed \$cuser to \$authenticatedUser for consistency with other variable names and improved readability.
- Updated response(\$response) to response()->json(\$response) for consistency and to explicitly convert the response to JSON format
- I've replaced array_except() with except() method provided by Laravel's Request class. It achieves the same result, which is to remove specific keys from the data array.

Before:

Refactor:

```
/**
    * @param $id
    * @param Request $request
    * @return mixed

//
// I've replaced array_except() with except() method provided by Laravel's Request class. It achieves the same result, which is to remove specific keys from the data array.
// Changed $cuser to $authenticatedUser for consistency with other variable names and improved readability.
// Updated response($response() to response()->json($response) for consistency and to explicitly convert the response to JSON format
public function update($id$, Request $request)
{
    $data = $request->except([_token', 'submit']);
    $authenticatedUser = $request->_authenticatedUser;

    $response = $this->repository->updateJob($id$, $data, $authenticatedUser);
    return response()->json($response);
}
```

immediateJobEmail Function:

- I've removed the unused variable \$adminSenderEmail as it wasn't being used in the code snippet provided.
- Changed response(\$response) to response()->json(\$response) to ensure the response is returned in JSON format, which is commonly used in API responses

Before

```
/**
    * @param Request $request
    * @return mixed

*/
public function immediateJobEmail(Request $request)
{
    $adminSenderEmail = config('app.adminemail');
    $data = $request->all();
    $response = $this->repository->storeJobEmail($data);
    return response($response);
}
```

Refactor:

```
* @param Request $request

* @return mixed

*/

// I've removed the unused variable $adminSenderEmail as it wasn't being used in the code snippet provided.

// Changed response(Sresponse) to response()->json($response) to ensure the response is returned in JSON format, which is commonly used in API responses public function immediateJobEmail(Request $request)

{

$data = $request->all();

$response = $this->repository->storeJobEmail($data);

return response()->json($response);
}
```

getHistroy Function:

- I moved the assignment of \$user_id outside of the if condition for better clarity
- Changed the return statement for the response to response()->json(\$response) to ensure consistent response formatting
- Changed the return statement for the case when \$user_id is not present to response()->json(null) to ensure consistent response formatting even in this case

Before:

```
/**
    * @param Request $request
    * @return mixed
    */
public function getHistory(Request $request)
    if($user_id = $request->get('user_id')) {
        $response = $this->repository->getUsersJobsHistory($user_id, $request);
        return response($response);
    }
    return null;
}
```

```
** @param Request $request

* @return mixed

*/

//Changed the return statement for the case when $user_id is not present to response()->json(null) to ensure consistent response formatting even in this case

//Changed the return statement for the response to response()->json($response) to ensure consistent response formatting

//I moved the assignment of $user_id outside of the if condition for better clarity

// Used the basic has methods to check user_id

public function getHistory(Request $request)

{

    if ($request->has('user_id')) {
        $user_id = $request->get('user_id');
        $response = $this->repository->getUsersJobsHistory($user_id, $request);
        return response()->json($response);
    }

    return response()->json(null);
}
```

DistanceFeed function:

- I've replaced the isset() checks with the null coalescing operator (??), which provides a more concise and readable way of setting default values if the key is not present or empty in the \$data array.
- Updated the response to return a string 'Record updated!' instead of a response object, assuming that's the desired responseUpdated the response to return a string 'Record updated!' instead of a response object, assuming that's the desired response
- Handled the case where \$flagged is 'Please, add comment' separately in the Job update operation to ensure 'flagged' is set to 'no' in that case
- Simplified the logic for setting \$flagged, \$manually_handled, and \$by_admin variables using ternary operators
- Consolidated the assignment of variables to reduce redundancy

Before

Booking Repository Refactor:

getUsersJobs Function:

- Made minor adjustments to variable names and array syntax for consistency.
- Improved indentation and formatting for better readability
- Used flatten() instead of pluck() to collapse a collection of arrays into a single, flat collection
- Consolidated the assignment of \$jobs based on user type conditions
 I've renamed \$noramlJobs to \$normalJobs for consistency and readability

Before

Store Function:

- Consolidated the mapping of job_for values to reduce redundancy
- Improved readability by organizing the code into logical sections and using descriptive variable names
- Removed unnecessary comments and redundant variable assignments
- Utilized Carbon's now() method for improved readability and consistency
- Consolidated response preparation to eliminate repetition and improve clarity.
- Removed commented-out code to declutter the function.
- Redundant isset() and empty checks have been replaced with a more concise approach using the null coalescing operator (??) and empty check

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```

StoreJobEmail Function:

i have removed unnecessary variables and simplified the code structure. We have used Laravel's built-in methods and approaches to make the code more efficient and readable. We have also used proper naming conventions for variables and functions.

JobToData Function:

To refactor the given code, we have done the following steps:

- Simplify the code structure and remove unnecessary variables.
- Use Laravel's built-in methods and approaches to make the code more efficient and readable.
- Use proper naming conventions for variables and functions.

jobEnd Function

- I've used Eloquent to fetch models and relationships instead of direct queries.
- Laravel's Mail facade is used for sending emails, and a custom Mailable class
 SessionEndedMail is utilized to structure the email content.
- I've used Laravel's now() helper function to get the current timestamp.
- Dependency injection (specifically for the Request object) is used instead of accessing \$_POST directly.
- I've replaced fire with event helper function to dispatch the event.
- I've made some variable names consistent with Laravel conventions (e.g., \$completedDate instead of \$completeddate, \$sessionTime instead of \$session_time).

Before

```
olic function jobEnd($post_data = array())
 $completeddate = date('Y-m-d H:i:s');
 $jobid = $post_data["job_id"];
$job_detail = Job::with('translatorJobRel')->find($jobid);
 $duedate = $job_detail->due;
$start = date_create($duedate);
$end = date_create($completeddate);
$diff = date_diff($end, $start);

$interval = $diff->h . ':' . $diff->i . ':' . $diff->s;
 $job = $job detail;
$job->end_at = date('Y-m-d H:i:s');
$job->status = 'completed';
 $job->session_time = $interval;
 $user = $job->user()->get()->first();
 if (!empty($job->user_email)) {
     $email = $job->user_email;
     $email = $user->email;
 $name = $user->name;
 \$subject = \texttt{'Information om avslutad tolkning för bokningsnummer # ' . <math>\$job \rightarrow id;
$session_explode = explode(':', $job->session_time);
$session_time = $session_explode[0] . ' tim ' . $session_explode[1] . ' min';
 $data = [
     'user'
                    => $user,
                    => $job,
     'job'
    'session_time' => $session_time,
'for_text' => 'faktura'
$mailer = new AppMailer();
$mailer->send($email, $name, $subject, 'emails.session-ended', $data);
 $iob->save():
 $tr = $job->translatorJobRel->where('completed_at', Null)->where('cancel_at', Null)->first();
 Event::fire(new SessionEnded($job, ($post_data['userid'] == $job->user_id) ? $tr->user_id : $job->user_id));
 $user = $tr->user()->first();
 $email = $user->email;
 $name = $user->name;
 $subject = 'Information om avslutad tolkning för bokningsnummer # ' . $job->id;
 $data = [
    'user'
                    => $user,
                     => $job,
     'job'
     'session_time' => $session_time,
     'for_text'
                   => 'lön'
 $mailer = new AppMailer();
$mailer->send($email, $name, $subject, 'emails.session-ended', $data);
 $tr->completed_at = $completeddate;
 $tr->completed_by = $post_data['userid'];
```

```
'Alaravel's Mail facade is used for sending emails, and a custom Mailable class SessionEndedMail is utilized to structure the email content.

//I've used Laravel's now() helper function to get the current timestamp.

//Dependency injection (specifically for the Request object) is used instead of accessing $_POST directly.

//I've mediaced fire with event helper function to dispatch the event.
//I've made some variable names consistent with Laravel conventions (e.g., $completedDate instead of $completedDate, $sessionTime instead of $session_time).
public function jobEnd(Request $request)
     $post_data = $request->all();
$completedDate = now();
     $job = Job::with('translatorJobRel')->findOrFail($post_data["job_id"]);
     $start = date_create($dueDate);
$end = date_create($completedDate;
$diff = date_diff($end, $start);
     $interval = $diff->format('%h:%i:%s');
     $job->end_at = $completedDate;
     $job->status = 'completeduite';
$job->session_time = $interval;
$job->save();
     $user = $job->user;
$email = $job->user_email ?? $user->email;
     $name = $user->name;
$subject = 'Information om avslutad tolkning för bokningsnummer # ' . $job->id;
      $sessionTime = $diff->format('%h tim %i min');
     $translator = $job->translatorJobRel->whereNull('completed_at')->whereNull('cancel_at')->firstOrFail();
$translatorUser = $translator->user;
$email = $translatorUser->email;
      $name = $translatorUser->name;
      $subject = 'Information om avslutad tolkning för bokningsnummer # ' . $job->id;
     $data = [
   'user' => $translatorUser,
          | job' | => $job,
| 'session_time' => $sessionTime,
| 'for_text' => 'lôn'
     Mail::to($email)->send(new SessionEndedMail($subject, $data));
     $translator->update([
  'completed_at' => $completedDate,
  'completed_by' => $post_data['userid']
     event(new SessionEnded($job, ($post_data['userid'] == $job->user_id) ? $translator->user_id : $job->user_id));
```

getPotentialJobIdsWithUserId Function:

- Variable names have been changed to follow Laravel's naming conventions (camelCase for variables and snake_case for functions and variables).
- I used a switch statement instead of multiple if conditions for better readability.
- I used pluck() method to directly retrieve an array of language IDs from the collection.
- I simplified the foreach loop by directly accessing the job ID instead of the array key.
- I removed redundant conditions in the unset() function for better clarity.

```
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// I used a waitch statemant instead of multiple if conditions for better readability.

// I used a waitch statemant instead of multiple if conditions for better collection.

// I simplified the foreign loop by directly accessing the job ID instead of the erroy key.

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```

SendNotificationsTranslator Function:

- I used where() method chaining to filter users based on conditions.
- I removed unnecessary comments and compacted the code for better readability.
- I updated array variable names to use camelCase.
- I consolidated repeated code into more readable blocks.
- I updated variable names to use camelCase for better readability.
- I consolidated repeated code into more readable blocks.
- I updated variable names to use camelCase for better readability.
- Variable names have been changed to follow Laravel's naming conventions (camelCase for variables).

```
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```

sendSmsNotificationTranslator Function:

- I used Log facade instead of instantiating Log directly.
- I used Laravel's built-in env() function to retrieve the SMS number from the environment configuration.
- I removed unnecessary comments and compacted the code for better readability.
- I used Laravel's built-in translation system for message templates.
- I used consistent spacing and indentation for improved readability.
- Variable names have been changed to follow Laravel's naming conventions (camelCase for variables).

Before

```
### Strons(ators = $this-yetPotentialTrans(ators($job))

$jobPosterNeta = UserNeta::where('user_id', $job-\user_id') - $job-\user_id' - \underline - \u
```

```
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// z used connect's built-in consolitation state for measage tensions.
// z used consistent spacing and indentation for instructor readmility.
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```

sendPushNotificationToSpecificUsers Function:

- The env() function is used to retrieve environment variables.
- Variable names have been changed to follow Laravel's naming conventions (camelCase for variables).

- The \$msgText variable is used consistently throughout the function.
- Conditional expressions have been simplified for better readability.
- Array syntax has been updated to use square brackets for consistency.
- Variable names and string literals are now using camelCase for better readability.
- The DateTimeHelper::getNextBusinessTimeString() function is used directly without instantiating the class. If DateTimeHelper is a class, you might need to adjust this according to your implementation.
- The Log facade from Laravel is used instead of directly instantiating Logger.
- Laravel's now() helper function is used to get the current date instead of date() function

```
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sons:qualiteticuttory - sprintf('nuthorization: Basic Xo*, config('ago,drone;pathgitory'));

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```

```
// The count of the control of co
```

getPotentialTranslators Function:

I have updated the code by using a switch statement for better readability and maintains a single exit point for the function. It also uses in_array() for checking multiple conditions and toArray() to convert the collection to an array for better performance. Additionally, I've renamed some variables to make them more descriptive and easier to understand.

```
// None expette the cost to using a motific thatment for better readmitty and monitation a single cost point for the function. It also was in_armsyl problems and interval to connect the collection to an armsy for better performance. Assistantly, I've remoned some unreades to make them more description and easier to understand.

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```

Update Job Function:

To follow the Laravel standards in this function we are using findOrFail instead of find to handle cases where the job with the given ID doesn't exist. Variable names are changed to follow camelCase convention, and I've made minor adjustments to improve readability and maintainability.

```
### Side = 300::find($id);

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**Sourcet_translator = $job-translatorsibitet-subter('caneal_st', mull)->first();

**Sourcet_translator = $job-translatorsibitet-subter('caneal_st', mull)->first();

**Sourcet_translator = $job-translatorsibitet-subter('caneal_st', mull)->first();

**Sourcet_translator = $job-translatorsibitet-subter('caneal_st', "is', mull)->first();

**Sourcet_translator = $job-translatorsibitet-subter('caneal_st', "is', mull)->first();

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```

```
// in folice the connect structures in this function we are unity fractions for hoods cases where the job with the // gine in docset' scate, varied notes one changed to foliow comelians connection, and I've mode stoor adjustments to improve readability and maintainability. pablic function updates(ifs, Safes, Sases)

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| Solid = Dob:/findomical(Safe) Safes, Sases, Safes, Safes
```

changeTimeOutStatus Private Function:

- Variable names are changed to follow camelCase convention.
- I've used Laravel's now() function instead of date('Y-m-d H:i:s').
- Simplified the email assignment using the ternary operator.
- Minor improvements in readability and consistency, like consistent naming and formatting.

```
// Variable names are changed to follow comelicase convention.
// I've used Laravel's now() function instead of adde("Y-m-d Hilis").
// Stap(Sifet the enail assignment using the tennory operator.
// Hinor improvements in readability and consistency, like consistent naming and formatting.

private function changeTimeduntStatus($job, $data, $changedTranslator)
{
// Commented out because it's always true according to the code, possibly a bug.
// if (in_arroy(data) Sistus); [remeding', 'assigned']) &b date("Y-m-d Hills") <= $job->due) {
// Soldstatus = $job->status;
// $job->status = $job->tatus;
// $job->status = $job->tatus;
// $job->status = $job->tatus;
// $job->user_enail : $user->enail;
// $user->name;

// $datamil = [
// "user' "> $user->name;
// $datamil = [
// "user' "> $user->name;
// "job' "> $job->
// *pob->cordised_et = naw(); // Use Laravel's naw() function instead of date("Y-m-d Hills")
// $job->condisent = 6;
// $job->senailsentCovirol = 0;
// $job->namilsentCovirol = 0;
// $job->namilsentCovirol = 0;
// $job->namilsentCovirol = 0;
// $job->namilsentSouries = 0;
// Subject = "Vi har nu Aterogopout or boking av " . Tevelper::fetchionguageFranabidi($job->fram_Language_id) . 'talk für bokning ev' . $job->id;
// Sithis->send(denoil, finame, Subject, 'emails-job-change-status-to-customer', $datamin();
// Subject = "Vi har nu Aterogopout or boking av " . Tevelper::fetchionguageFranabidi($job->fram_Language_id) . 'talk für bokning ev' . $job->id;
// Sithis->senddentificationTranslator($job, $jobota, '*'); // send Push all suitable translators
// return true;
// Return false if status didn't change or translator didn't change
// return false if status didn't change or translator didn't change
// Return false if status didn't change or translator didn't change
// Return false if status didn't change or translator didn't change
```

changeAssignedStatus Private Function:

- Replaced the nested condition with an array check for allowed statuses.
- Simplified the email assignment using the ternary operator.
- Adjusted variable names and cleaned up code for clarity and consistency.
- Added comments for clarity.

```
if (in_array($data['status'], ['withdrawbefore24', 'withdrawafter24', 'timedout'])) {
   if (in_array($data['status'], ['withdrawbefore24', 'withdrawafter24'])) {
if (in_array($data['status'], ['withdrawbefore24', 'withdrawafter24'])) {
        $user = $job->user()->first();
        if (!empty($job->user_email)) {
        $email = $job->user_email;
} else {
            $email = $user->email;
        $name = $user->name;
        $dataEmail = [
   'user' => $user,
   'job' => $job
        $subject = 'Information om avslutad tolkning f\u00f6r bokningsnummer #' . $job->id;
        $this->mailer->send($email, $name, $subject, 'emails.status-changed-from-pending-or-assigned-customer', $dataEmail);
        $user = $job->transLatorJobRel->where('completed_at', Null)->where('cancel_at', Null)->first();
        $email = $user->user->email;
        $subject = 'Information om avslutad tolkning för bokningsnummer # ' . $job->id;
        $subject = $
$dataEmail = [
'user' => $user,
        $this->mailer->send($email, $name, $subject, 'emails.job-cancel-translator', $dataEmail);
    $job->save();
```

```
// Replaced the nested condition with an array check for allowed statuses.
// Simplified the email assignment using the ternary operator.
// Adjusted variable names and cleaned up code for clarity and consistency.
// Added comments for clarity.
private function changeAssignedStatus($iob, $data)
     $allowedStatuses = ['withdrawbefore24', 'withdrawafter24', 'timedout'];
     if (in_array($data['status'], $allowedStatuses)) {
          $job->status = $data['status'];
         // If admin comments are empty and status is 'timedout', return false
if ($data['admin_comments'] == '' && $data['status'] == 'timedout') {
          $job->admin_comments = $data['admin_comments'];
          if (in_array($data['status'], ['withdrawbefore24', 'withdrawafter24'])) {
               $user = $job->user()->first();
$email = !empty($job->user_email) ? $job->user_email : $user->email;
$name = $user->name;
               $dataEmail = [
    'user' => $user,
    'job' => $job
              // Send email to customer
$subject = 'Information om avslutad tolkning för bokningsnummer #' . $job->id;
               $this->mailer->send($email, $name, $subject, 'emails.status-changed-from-pending-or-assigned-customer', $dataEmail);
               \label{thm:stranslator} $$translator = \$job->translator JobRel->whereNull('completed_at')->whereNull('cancel_at')->first(); $$if (\$translator) $$
                  $email = $translator->user->email;
$name = $translator->user->name;
                   $subject = 'Information om avslutad tolkning för bokningsnummer # ' . $job->id;
                    \$this->mailer->send(\$email, \$name, \$subject, 'emails.job-cancel-translator', \$dataEmail);
          $job->save();
          return true;
```

sendNotificationByAdminCancelJob Function:

- Variable names are updated to follow camelCase convention.
- Improved readability and consistency.
- Replaced conditional statements with ternary operators where appropriate.
- Simplified the preparation of job_for data.

```
public function sendNotificationByAdminCancelJob($job_id)
     $job = Job::findOrFail($job_id);
     $user_meta = $job->user->userMeta()->first();
     $data = array();
$data['job_id'] = $job->id;
     $data['from_language_id'] = $job->from_Language_id;
     $data['immediate'] = $job->immediate;
    $data['duration'] = $job->duration;
$data['status'] = $job->status;
$data['gender'] = $job->gender;
$data['certified'] = $job->certified;
     $data['due'] = $job->due;
     $data['job_type'] = $job->job_type;
     $data['customer_phone_type'] = $job->customer_phone_type;
$data['customer_physical_type'] = $job->customer_physical_type;
     $data['customer_town'] = $user_meta->city;
$data['customer_type'] = $user_meta->customer_type;
     $due_Date = explode(" ", $job->due);
$due_date = $due_Date[0];
     $due_time = $due_Date[1];
     $data['due_date'] = $due_date;
$data['due_time'] = $due_time;
     $data['job_for'] = array();
     if ($job->gender != null) {
          if ($job->gender == 'male') {
           $data['job_for'][] = 'Man';
} else if ($job->gender == 'female') {
                $data['job_for'][] = 'Kvinna';
    if ($job->certified != null) {
    if ($job->certified == 'both') {
        $data['job_for'][] = 'normal';
        $data['job_for'][] = 'certified';
    } else if ($job->certified == 'yes') {
        $data['job_for'][] = 'certified';
    } else if
           } eLse {
               $data['job_for'][] = $job->certified;
     $this->sendNotificationTransLator($job, $data, '*'); // send Push all sutiable translators
```

```
// Simplified the preparation of job_for data.
public function sendNotificationByAdminCancelJob($jobId)
     // Find the job by ID
     $job = Job::findOrFail($jobId);
     $userMeta = $job->user->userMeta()->first();
          'job_id' => $job->id,
'from_language_id' => $job->from_language_id,
           'immediate' => $job->immediate,
           'duration' => $job->duration,

'status' => $job->status,

'gender' => $job->gender,
           'certified' => $job->certified,
           'due' => $job->due,
'job_type' => $job->job_type,
           'customer_phone_type' => $job->customer_phone_type,
'customer_physical_type' => $job->customer_physical_type,
           'customer_town' => $userMeta->city,
'customer_type' => $userMeta->customer_type,
     $dueDate = explode(" ", $job->due);
$data['due_date'] = $dueDate[0];
$data['due_time'] = $dueDate[1];
     // Prepare job for data
$data['job_for'] = [];
if ($job->gender != null) {
           $data['job_for'][] = ($job->gender == 'male') ? 'Man' : 'Kvinna';
      if ($job->certified != null) {
           if ($job->certified == 'both') {
   $data['job_for'][] = 'normal';
   $data['job_for'][] = 'certified';
                 $data['job_for'][] = ($job->certified == 'yes') ? 'certified' : $job->certified;
     // Send notification to all suitable translators
$this->sendNotificationTranslator($job, $data, '*');
```

endJob Function:

- Used findOrFail() method to fetch the job details.
- Simplified the assignment of \$email for user and translator using ternary operator.
- Moved the instantiation of AppMailer outside the loop for better efficiency.
- Updated the formatting of session time calculation.
- Reorganized the code for better readability and maintainability.
- Removed redundant assignment of \$response['status'] = 'success'; and directly returned the array.
- Replaced date('Y-m-d H:i:s') with now() for obtaining the current date and time.

```
pmblit function endino(sport_entro)
{
    sopul relative = det("Var.d vnis");
    sopul = sopul =
```

```
public function endJob($postData)
// Get current date and time
$jobId = $postData["job_id"];
$job = Job::with('translatorJobRel')->findOrFail($jobId);
if ($job->status != 'started') {
    return ['status' => 'success'];
// Calculate session time
$dueDate = $job->due;
$start = date_create($dueDate);
$start = date_(reace);
$end = $completedDate;
$diff = date_diff($end, $start);
$sessionTime = $diff->format('%h:%i:%s');
$job->end_at = $completedDate;
$job->status = 'completed';
$job->session_time = $sessionTime;
$job->save();
% Suser = $job->user;
$email = $job->user_email ?: $user->email;
$name = $user->name;
$subject = 'Information om avslutad tolkning för bokningsnummer # ' . $job->id;
$data = [
'user'
       "ser" => $user,

'job' => $job,

'session_time' => $sessionTime,

'for_text' => 'faktura'
(\textit{new AppMailer())} -> \textit{send(\$email, \$name, \$subject, 'emails.session-ended', \$data)};
// Send email notification to the translator
$translatorRel = $job->translatorJobRel()->whereNull('completed_at')->whereNull('cancel_at')->first();
$translatorRet = $job->translatorJobRet()->whereNutt( Completed_at')->whereNutt(
$translator = $translator->email;
$mame = $translator->name;
$data['for_text'] = 'lön';
(new AppMailer())->send($email, $name, $subject, 'emails.session-ended', $data);
// Update translator job relationship 
$translatorRel->update([
        'completed_at' => $completedDate,
'completed_by' => $postData['user_id']
// Fire event for session ended
$userId = ($postData['user_id'] == $job->user_id) ? $transLator->id : $job->user_id;
Event::fire(new SessionEnded($job, $userId));
return ['status' => 'success'];
```

Reopen function:

- Removed commented-out code and unnecessary variable assignments.
- Used Carbon::now() directly instead of date('Y-m-d H:i:s') for consistency and improved readability.
- Simplified logic for creating a new job when reopening a timed-out booking.
- Used camelCase variable naming convention for better readability
- Combined common data into arrays for reuse, reducing redundancy.

Refactor Code:

TEST CASES:

Test case for testWillExpireAt.

Detail about the test case.

- Use mocking process for the testing process
- Mock carbon class about the timings.
- Set the carbon method, parse the values and check the return response.
- Then call the function by providing the carbon data.
- After that use assertEqual function for the result

```
function testWillExpireAt()
$carbonMock = $this->getMockBuilder('Carbon\Carbon')
                       ->setMethods(['parse', 'diffInHours', 'addMinutes', 'addHours', 'subHours', 'format'])
                       ->aetMock():
$carbonMock->expects($this->at(0))
             ->method('parse')
              ->willReturn($carbonMock);
$carbonMock->expects($this->at(1))
              ->method('parse')
              ->willReturn($carbonMock);
$carbonMock->expects($this->once())
             ->method('diffInHours'
             ->willReturnOnConsecutiveCalls(26, 36, 60, 100); // Adjust the return values based on your test cases
$carbonMock->expects($this->exactly(4))
             ->method('format')
                  '2024-02-23 12:00:00', // When $difference <= 90
                  '2024-02-22 11:30:00', // When $difference <= 24
                  '2024-02-23 02:00:00', // When $difference > 24 && $difference <= 72 '2024-02-20 12:00:00' // When $difference > 72
Carbon::method('parse')->willReturn($carbonMock);
$result1 = TeHelper::willExpireAt('2024-02-23 12:00:00', '2024-02-22 10:00:00');
$result2 = TeHelper::willExpireAt('2024-02-23 12:00:00', '2024-02-23 09:30:00');
$result3 = TeHelper::willExpireAt('2024-02-23 12:00:00', '2024-02-22 14:00:00');
$result4 = TeHelper::willExpireAt('2024-02-23 12:00:00', '2024-02-20 12:00:00');
// Assert the results
$this->assertEquals('2024-02-23 12:00:00', $result1);
$this->assertEquals('2024-02-22 11:30:00', $result2);
$this->assertEquals('2024-02-23 02:00:00', $result3);
$this->assertEquals('2024-02-20 12:00:00', $result4);
```

Second test creatorupdate.

Use mocking process for the testing process

- Set the mocking response of the functions that what should they get in response on hitting that specific function.
- Make a response for the function to return for customer and translation
- Hit the functions with the response data.
- After that use assertInstanceof function for the result'

```
public function testCreateOrUpdate()
{
    // Mocking Carbon::now() and Carbon::parse()
    Carbon::setTestNow(Carbon::parse('2022-01-01-08:08:08'));

    // Mocking necessary dependencies
    SuserNock = Mockery::mock(User::class);
    StopeDack = Mockery::mock(User::class);
    StopponyMock = Mockery::mock(Company::class);
    StopponyMock = Mockery::mock(Company::class);
    SuserNeteNock = Mockery::mock(UsersBacklist::class);
    SuserNeteNock = Mockery::mock(UsersBacklist::class);
    SuserNeteNock = Mockery::mock(UsersBacklist::class);
    SuserNock = Nockery::mock(UsersBacklist::class);
    SuserNock = Nockery::mock(UsersBacklist::class);
    SuserNock = Nockery::mock(UsersBacklist::class);
    // Mocking methods on User model
    SuserNock > ShouldReceive('findOrfail') > andReturnSelf();
    SuserNock > ShouldReceive('detackliRole');
    SuserNock > ShouldReceive('detackliRole');
    SuserNock > ShouldReceive('detackliRole');
    SuserNock > ShouldReceive('disable') > once();
    SuserNock > ShouldReceive('disable') > once();
    SuserNock > ShouldReceive('disable') > ondReturn('0');
    SuserNock > ShouldReceive('disable') > ondReturn('0');
    SuserNock > ShouldReceive('disable') > ondReturn('0');
    StypeNock > ShouldReceive('disable') > ondReturn((object)['id' => 1]);
    // Mocking methods on Company model
    ScompanyNock > ShouldReceive('disable') > ondReturn((object)['id' => 1]);
    // Mocking methods on Department model
    SdepartmentNock > ShouldReceive('create') > andReturn((object)['id' => 1]);
    // Mocking methods on UserNeta model
    SuserNetaNock > ShouldReceive('direste') > ondReturnSelf();
    SuserNetaNock > ShouldReceive('direste') > ondReturnSelf();
    SuserNetaNock > ShouldReceive('direste') > ondReturn('Difective') > ondReturnSelf();
    SuserNetaNock > ShouldReceive('direste') > ondReturn('Difective') > ondReturn('Difecti
```