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public function login(Request $request)
{
    try {
        //Validate request input
        $request->validate([
            'email' => 'required|email',
            'password' => 'required',
        ]);

        // Find the user by email
        $user = User::where('email', $request->email)->first();

        if ($user) {
            if (Hash::check($request->password, $user->password)) {
                //Generate token based on usertype
                $token = null;
                switch ($user->user_type) {
                    case 'Administrator':
                        $token = $user->createToken('admin-token',
['Administrator']->plainTextToken;
                        break;
                    case 'Supervisor':
                        $token = $user->createToken('supervisor-token',
['Supervisor']->plainTextToken;
                        break;
                    case 'TeamLeader':
                        $token = $user->createToken('teamleader-token',
['TeamLeader']->plainTextToken;
                        break;
                    case 'Controller':
                        $token = $user->createToken('controller-token',
['Controller']->plainTextToken;
                        break;
                    case 'DeanHead':
                        $token = $user->createToken('dean-token',
['Deahead']->plainTextToken;
                        break;
                    default:
                        $response = ['message' => 'Unauthorized'];

                        $this->logAPICalls('login', $request->email,
$request->all(), $response); // Log API call
                        return response()->json($response, 403);
                }

                $sessionResponse = $this->insertSession($request-
>merge(['id' => $user->id]));

                //Log successful login
                $response = [
                    'isSuccess'=> true,
                    'message' => ucfirst($user->user_type) . ' logged in
successfully',
                    'token' => $token,
                    'user' => $user->only(['id', 'email']),
                    'user_type' => $user->user_type,
                    'session' => $sessionResponse->getData(),
                ];
                $this->logAPICalls('login', $user->id, $request-
>except(['password']), $response);
                return response()->json($response, 200);
            } else {

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                $response = ['message' => 'Invalid credentials'];
                $this->logAPICalls('login', $request->email, $request-
>except(['password']), $response);
                return response()->json($response, 401);
            }
        } else {
            $response = ['message' => 'Invalid credentials'];
            $this->logAPICalls('login', $request->email, $request-
>except(['password']), $response);
            return response()->json($response, 401);
        }
    } catch (Throwable $e) {
        $response = [
            'message' => 'An error occurred',
            'error' => $e->getMessage() // Return the specific error message
        ];
        $this->logAPICalls('login', $request->email, $request->all(),
$response);
        return response()->json($response, 500);
    }
}

//LOGOUT

public function logout(Request $request)
{
    try {
        $user = Auth::user();

        if ($user) {
            Log::info('User logging out:', ['email' => $user->email]);

            // Find the latest session for this user with a null logout_date
            $session = Session::where('user_id', $user->id)
                ->whereNull('logout_date')
                ->latest()
                ->first();

            if ($session) {
                $session->update([
                    'logout_date' => Carbon::now()->toDateTimeString(),
                ]);
            }

            if ($user->currentAccessToken()) {
                $user->currentAccessToken()->delete();
            }

            $response = ['message' => 'User logged out successfully'];
            $this->logAPICalls('logout', $user->id, [], $response);

            return response()->json($response, 200);
        }

        // If no authenticated user is found, return unauthenticated response
        return response()->json(['message' => 'Unauthenticated'], 401);
    } catch (Throwable $e) {
        return response()->json([
            'message' => 'Failed to log out',
            'error' => $e->getMessage(),
        ], 500);
    }
}

```

}