SAE

—

Tests boîte blanche

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INF2 - FI - B

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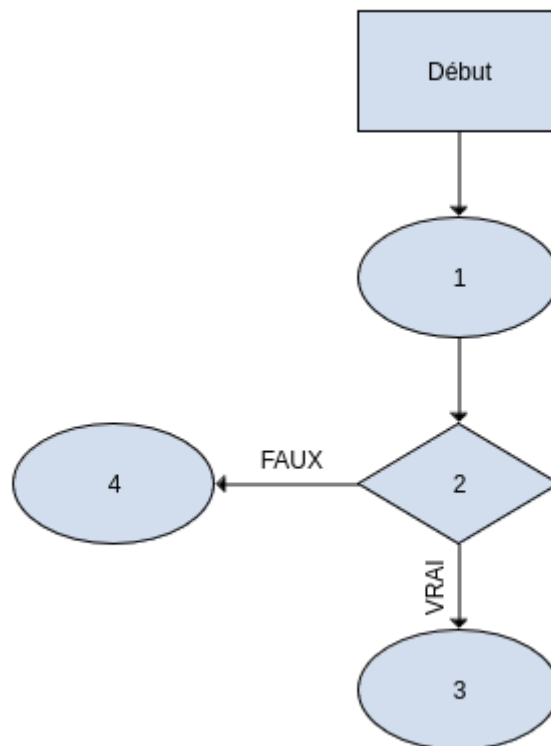
```php
public function setTechnician(int $argtechnician_ID): bool
    {
        $conn = Connexion::getConn(); // SECTION 1
        try // SECTION 2
        {
            // SECTION 3
            $stmt = $conn->prepare("UPDATE Ticket
                                    SET Technician_ID = ?
                                    WHERE UID = ?
                                    AND IP = ?
                                    AND urgence_level = ?
                                    AND Label_ID = ?
                                    AND creation_date = ?
                                    AND status = ?
                                    AND description = ?
                                    AND concernee = ?;");
            $uid = $this->UID;
            $ip = $this->IP;
            $urgence = $this->urgence_level;
            $label = $this->label_ID;
            $date = $this->creation_date;
            $status = $this->status;
            $desc = htmlspecialchars($this->description);
            $concernee = $this->concernee;
            $stmt->bind_param("iisiiisssi",
                $argtechnician_ID,
                $uid,
                $ip,
                $urgence,
                $label,
                $date,
                $status,
                $desc,
                $concernee);
            $stmt->execute();
            $this->technician_ID = $argtechnician_ID;
            $niveauxUrgence = array(
                1 => 'Urgent',
```

```php
                2 => 'Important',
                3 => 'Moyen',
                4 => 'Faible');
        $ip = $_SERVER['REMOTE_ADDR'];
        $details = 'L\'administrateur web a attribué un ticket d\'urgence
'.$niveauxUrgence[$urgence].' concernant '.User::getLoginByUID($concernee).'
au sujet de '.getLabelNameById($label).' au technicien
'.User::getLoginByUID($argtechnician_ID).'';
        $message = getLogMessage(date('Y-m-d H:i:s'), 'INFO', 'Ticket',
$details, $ip);
        $actualDate = date("d-m-Y");
        $logTicket = "historyTicket".$actualDate.".csv";
        write("log/ticket/", $logTicket, $message);
        return $stmt->affected_rows==1;
        // FIN SECTION 3
    }
    catch (Exception $e)
    {
        throw new Exception("Erreur d'actualisation de la colonne"); //
SECTION 4
    }
  }
```

C1 = 1-2-3
C2 = 1-2-4

Contexte : Un seul technicien a pour ID 1 dans la BD

| Test	$argtechnician_ID	Sortie
C1	1	true
C2	56	Exception

Méthode setStatus

```php
public function setStatus(string $status) : bool
{
    $conn = Connexion::getConn(); // SECTION 1
    try // SECTION 2
    {
        // SECTION 3
        $stmt = $conn->prepare("UPDATE Ticket
                                SET status = ?
                                WHERE UID = ?
                                AND IP = ?
                                AND urgence_level = ?
                                AND status = ?
                                AND Label_ID = ?
                                AND creation_date = ?
                                AND Technician_ID = ?
                                AND description = ?
                                AND concernee = ?;");
        $ip = $this->IP;
        $uid = $this->UID;
        $urgence = $this->urgence_level;
        $label = $this->label_ID;
        $date = $this->creation_date;
        $tec = $this->technician_ID;
        $desc = htmlspecialchars($this->description);
        $concernee = $this->concernee;
        $stmt->bind_param("sisisisisi",
            $status,
            $uid,
            $ip,
            $urgence,
            $this->status,
            $label,
            $date,
            $tec,
```

```php
            $desc,
            $concernee);
        $stmt->execute();
        $this->status = $status;
        $niveauxUrgence = array(
            1 => 'Urgent',
            2 => 'Important',
            3 => 'Moyen',
            4 => 'Faible');
        $ip = $_SERVER['REMOTE_ADDR'];
        $details = 'Un technicien a changé l\'état en "'.$status.'" d\'un
ticket d\'urgence '.$niveauxUrgence[$urgence].' concernant
'.User::getLoginByUID($concernee).' au sujet de
'.getLabelNameById($label).'';
        $message = getLogMessage(date('Y-m-d H:i:s'), 'INFO', 'Ticket',
$details, $ip);
        $actualDate = date("d-m-Y");
        $logTicket = "historyTicket".$actualDate.".csv";
        write("log/ticket/", $logTicket, $message);
        return true;
        // FIN SECTION 3
    }
    catch (Exception $e)
    {
        echo "Erreur d'actualisation de la colonne : ", $e; // SECTION 4
    }
    return false; // SECTION 5
}
```
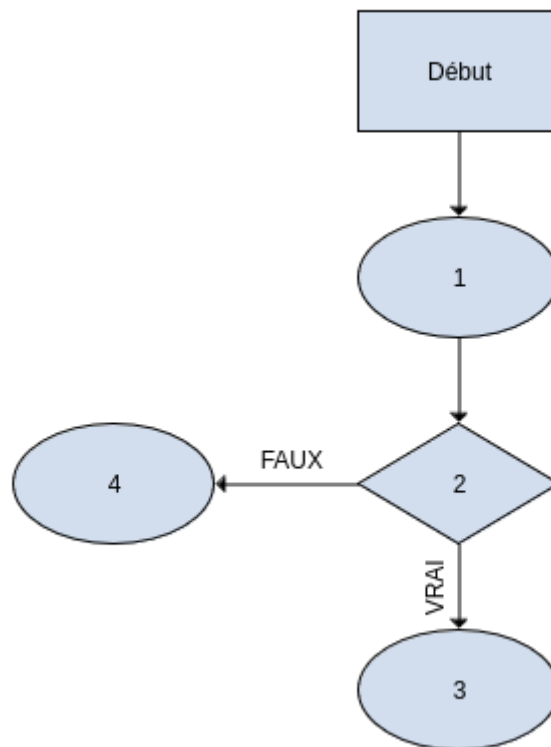
C1 = 1-2-3
C2 = 1-2-4

Test	$status	Sortie
C1	'En Cours'	true
C2	'teeest'	Exception

Méthode getLastTickets

```php
public static function getLastTickets(): array
{
    // SECTION 1
    $tickets = array();
    $requete = "SELECT *
                FROM Ticket
                WHERE status != 'Fermé'
                ORDER BY creation_date DESC
                LIMIT 10;";

    $conn = Connexion::getConn();
    // FIN SECTION 1
```
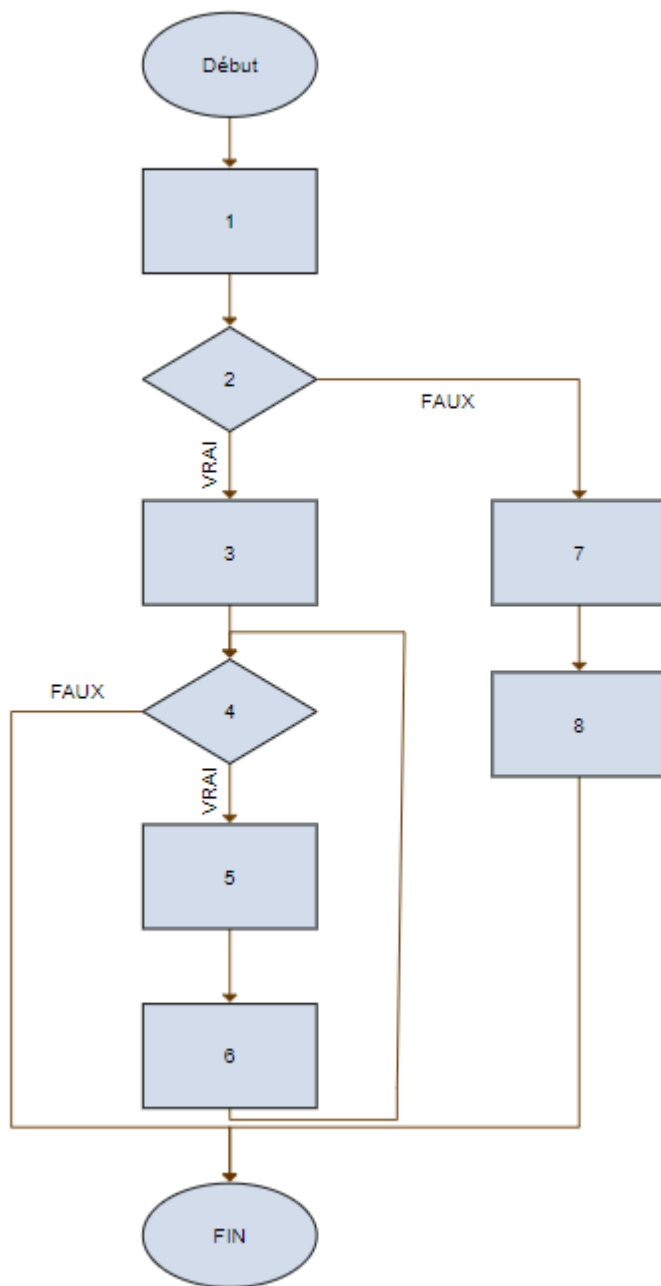
```php
    try // SECTION 2
    {
        // SECTION 3
        $stmt = $conn->prepare($requete);
        $stmt->execute();
        $result = $stmt->get_result();
        // FIN SECTION 3
        while($row = $result->fetch_assoc()) // SECTION 4
        {
            // SECTION 5
            $uid = $row['UID'];
            $techician = $row['Technician_ID'];
            $urgence_level = $row['urgence_level'];
            $label = $row['Label_ID'];
            $ip = $row['IP'];
            $creation_date = $row['creation_date'];
            $status = $row['status'];
            $description = $row['description'];
            $concernee = $row['concernee'];
            $ticket = new Ticket($uid,
                                 $urgence_level,
                                 $label,
                                 $concernee,
                                 $description,
                                 $ip,
                                 $creation_date,
                                 $status,
                                 $techician
                                 );
            $tickets[] = $ticket;
            // FIN SECTION 5
        }
        return $tickets; // SECTION 6

    }   catch (Exception $e)
    {
        echo "Erreur de selection : ", $e; // SECTION 7
    }
    return array(); // SECTION 8
}
```

C1 = 1-2-7-8
C2 = 1-2-3-4-5-6

Test	Nombre de ticket sur la BD	
C1	0	array()
C2	> 0	array(ticket1, ticket2, ticketn)

Méthode getTicketsWithoutTechnician

```php
public static function getTicketsWithoutTechnician(): array
{
    // SECTION 1
    $tickets = array();
    $requete = "SELECT *
                FROM Ticket
                WHERE Technician_ID IS NULL;";
    $conn = Connexion::getConn();
    // FIN SECTION 1
    try // SECTION 2
    {
        // SECTION 3
        $stmt = $conn->prepare($requete);
        $stmt->execute();
        $result = $stmt->get_result();
        // FIN SECTION 3
        while($row = $result->fetch_assoc()) // SECTION 4
        {
            // SECTION 5
            $uid = $row['UID'];
            $techician = $row['Technician_ID'];
            $urgence_level = $row['urgence_level'];
            $label = $row['Label_ID'];
            $ip = $row['IP'];
            $creation_date = $row['creation_date'];
            $status = $row['status'];
            $description = $row['description'];
            $concernee = $row['concernee'];
            $ticket = new Ticket($uid,
                                 $urgence_level,
                                 $label,
                                 $concernee,
                                 $description,
                                 $ip,
                                 $creation_date,
                                 $status,
                                 $techician
                                 );
            $tickets[] = $ticket;
            // FIN SECTION 5
        }
        return $tickets; // SECTION 6
    }
    catch (Exception $e)
    {
        echo "Erreur de selection : ", $e; // SECTION 7
```
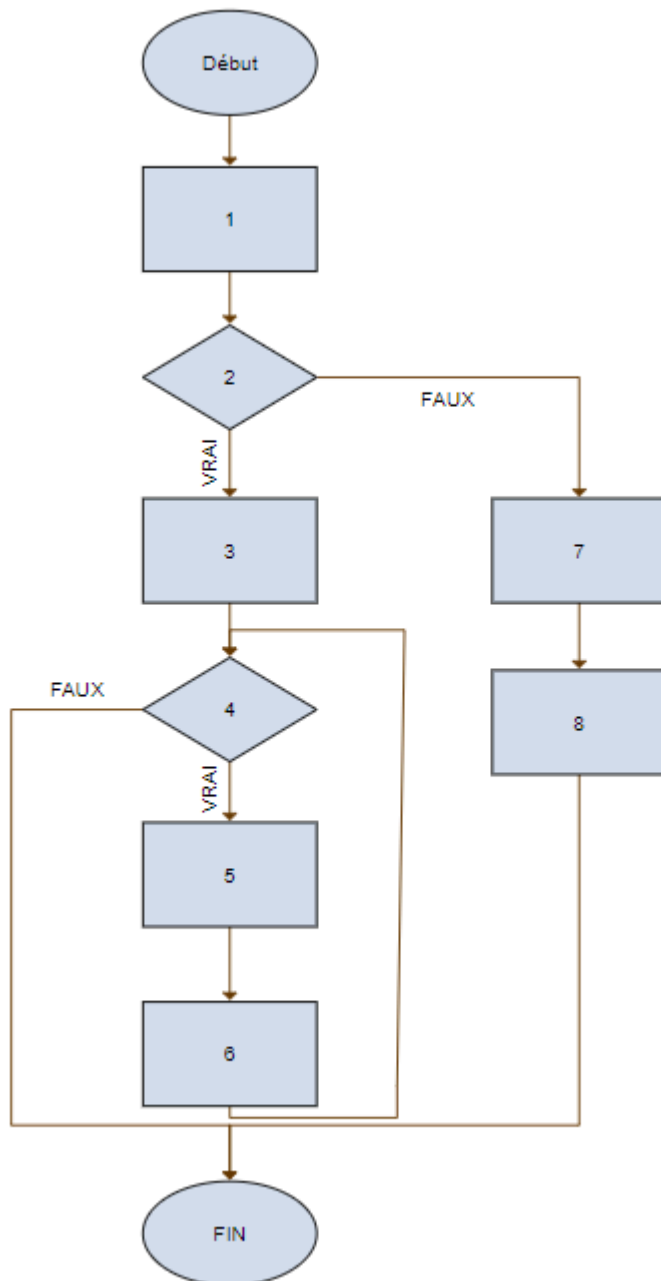
```
    }
    return array(); // SECTION 8
}
```

C1 =
C2 =

Méthode getTicketsWithTechnician
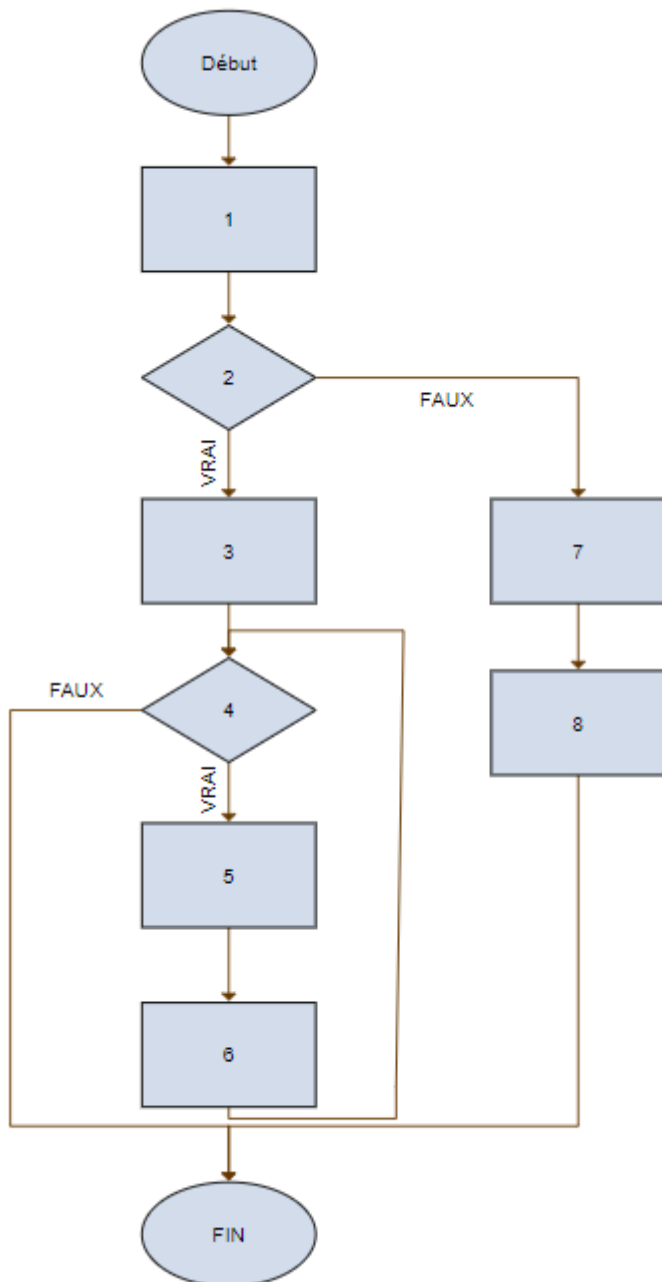
```php
public static function getTicketsWithTechnician($technician_ID): array
{
```

```php
    // SECTION 1
    $tickets = array();
    $requete = "SELECT *
                FROM Ticket
                WHERE Technician_ID = ?
                AND status != 'Fermé';";
    $conn = Connexion::getConn();
    // FIN SECTION 1
    try // SECTION 2
    {
        // SECTION 3
        $stmt = $conn->prepare($requete);
        $stmt->bind_param("i", $technician_ID);
        $stmt->execute();
        $result = $stmt->get_result();
        // FIN SECTION 3
        while($row = $result->fetch_assoc()) // SECTION 4
        {
            // SECTION 5
            $uid = $row['UID'];
            $techician = $row['Technician_ID'];
            $urgence_level = $row['urgence_level'];
            $label = $row['Label_ID'];
            $creation_date = $row['creation_date'];
            $status = $row['status'];
            $ip = $row['IP'];
            $description = $row['description'];
            $concernee = $row['concernee'];
            $ticket = new Ticket($uid,
                                 $urgence_level,
                                 $label,
                                 $concernee,
                                 $description,
                                 $ip,
                                 $creation_date,
                                 $status,
                                 $techician);
            $tickets[] = $ticket;
            // FIN SECTION 5
        }
        return $tickets; // SECTION 6
    }
    catch(Exception $e)
    {
        echo "Erreur de selection : ", $e; // SECTION 7
    }
    return array(); // SECTION 8
}
```

Méthode getClosedTickets
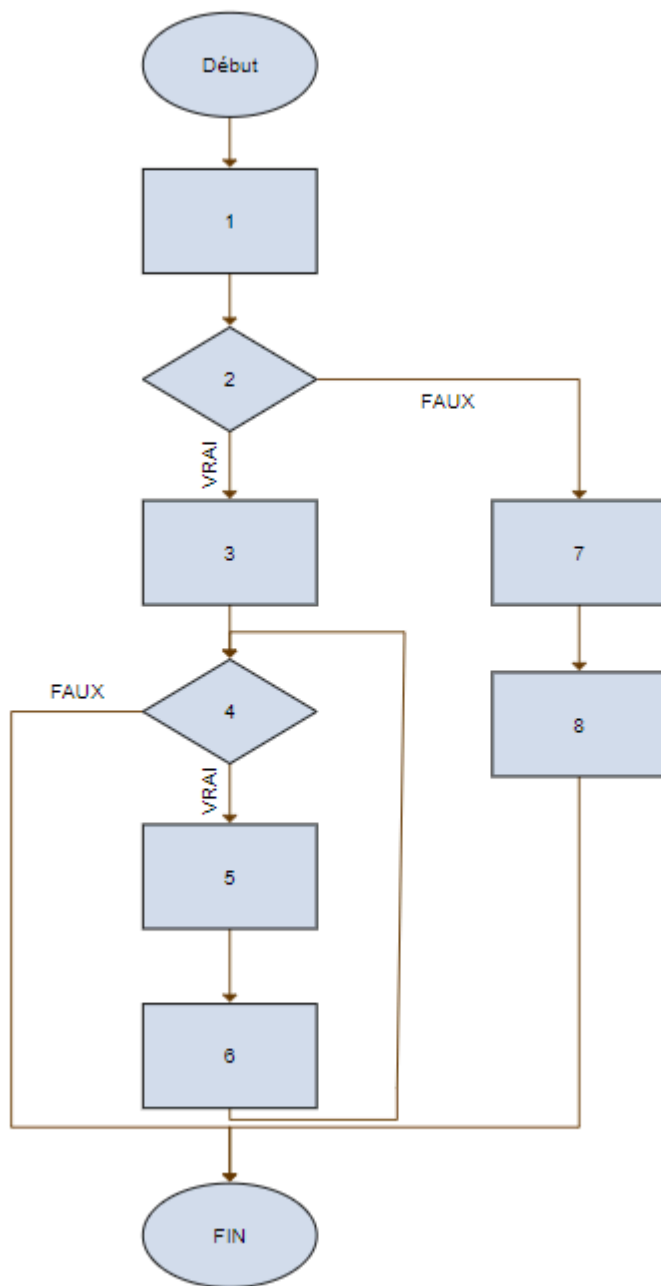
```php
public static function getClosedTickets(): array
{
    // SECTION 1
    $tickets = array();
    $requete = "SELECT *
                FROM Ticket
                WHERE status = 'Fermé';";
    $conn = Connexion::getConn();
```

```php
    // FIN SECTION 1
    try // SECTION 2
    {
        // SECTION 3
        $stmt = $conn->prepare($requete);
        $stmt->execute();
        $result = $stmt->get_result();
        // FIN SECTION 3
        while($row = $result->fetch_assoc()) // SECTION 4
        {
            // SECTION 5
            $uid = $row['UID'];
            $techician = $row['Technician_ID'];
            $urgence_level = $row['urgence_level'];
            $label = $row['Label_ID'];
            $creation_date = $row['creation_date'];
            $status = $row['status'];
            $ip = $row['IP'];
            $description = $row['description'];
            $concernee = $row['concernee'];
            $ticket = new Ticket($uid,
                                 $urgence_level,
                                 $label,
                                 $concernee,
                                 $description,
                                 $ip,
                                 $creation_date,
                                 $status,
                                 $techician);
            $tickets[] = $ticket;
         // FIN SECTION 5
}
        return $tickets; // SECTION 6
    }
    catch (Exception $e)
    {
        echo "Erreur de selection : ", $e; // SECTION 7
    }
    return array(); // SECTION 8
}
```

User

Méthode createTicket

```php
public function createTicket(Ticket $ticket): bool
{
    if ($this->role == "user") // SECTION 1
    {
```

```php
        $conn = Connexion::getConn(); // SECTION 2
        try // SECTION 3
        {
            // SECTION 4
            $stmt = $conn->prepare("CALL AddTicket(?, ?, ?, ?, ?, ?);");
            $uid = $ticket->getUID();
            $label = $ticket->getLabelID();
            $urgence = $ticket->getUrgence();
            $desc = $ticket->getDescription();
            $concernee = $ticket->getConcernee();
            $ip = $ticket->getIP();

            $stmt->bind_param("iiisis",
                    $uid,
                    $label,
                    $urgence,
                    $desc,
                    $concernee,
                    $ip);
        // FIN SECTION 4

            if ($stmt->execute()) // SECTION 5
            {
                // SECTION 6
                $niveauxUrgence = array(
                    1 => 'Urgent',
                    2 => 'Important',
                    3 => 'Moyen',
                    4 => 'Faible');
                $details = 'L\'utilisateur '.$this->login.' a créé un
ticket d\'urgence '.$niveauxUrgence[$urgence].' concernant
'.User::getLoginByUID($concernee).' au sujet de
'.getLabelNameById($label).'';
                $message = getLogMessage(date('Y-m-d H:i:s'), 'INFO',
'Ticket', $details, $ip);
                $actualDate = date("d-m-Y");
                $logTicket = "historyTicket".$actualDate.".csv";
                write("log/ticket/", $logTicket, $message);
                // FIN SECTION 6
            }
            // SECTION 7
            $this->tickets[] = $ticket;
            return true;
            // FIN SECTION 7
        }
        catch (Exception $e)
        {
            echo "Erreur de création du ticket : ", $e; // SECTION 8
```
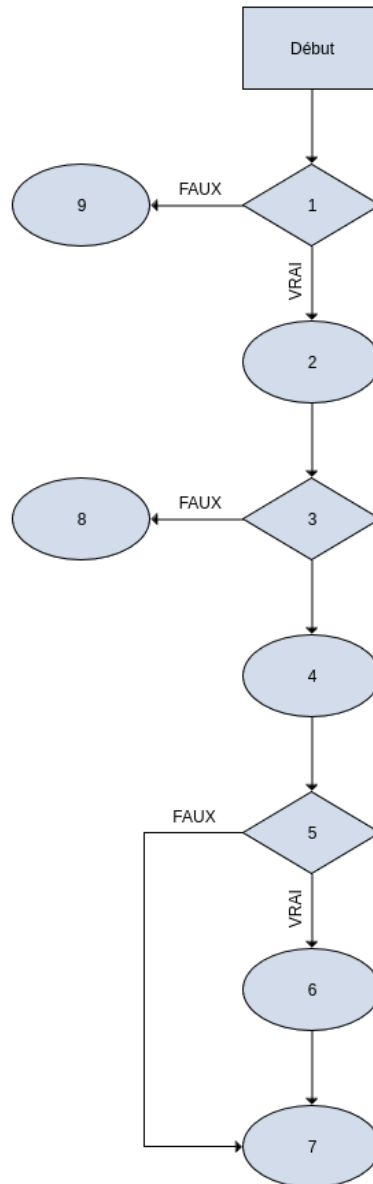
```
            }
        }
    return false; // SECTION 9
    }
```


C1 = 1-9
C2 = 1-2-3-8
C3 = 1-2-3-4-5-6-7

Test	$ticket	$this->role	Sortie
C1	Peu importe	!= 'user'	false
C2	Ticket pas dans la BD	'user'	Exception
C3	TIcket dans la BD	'user'	true

Méthode getLoginByUID

```php
public static function getLoginByUID(int $uid): string
{
    // SECTION 1
    $requete = "SELECT login
                FROM User
                WHERE UID=?";
    $conn = Connexion::getConn();
    // FIN SECTION 1
    try // SECTION 2
    {
        // SECTION 3
        $stmt = $conn->prepare($requete);
        $stmt->bind_param("i", $uid);
        $stmt->execute();
        $result = $stmt->get_result();
        // FIN SECTION 3
        if ($result->num_rows == 1) // SECTION 4
        {
            while($row = $result->fetch_assoc()) // SECTION 5
            {
                $login = $row["login"]; // SECTION 6
            }
        }
        return (string)$login; // SECTION 7
    }
    catch (Exception $e)
    {
        echo "Erreur de sélection : ", $e; // SECTION 8
    }
    return "unknown user"; // SECTION 9
}
```
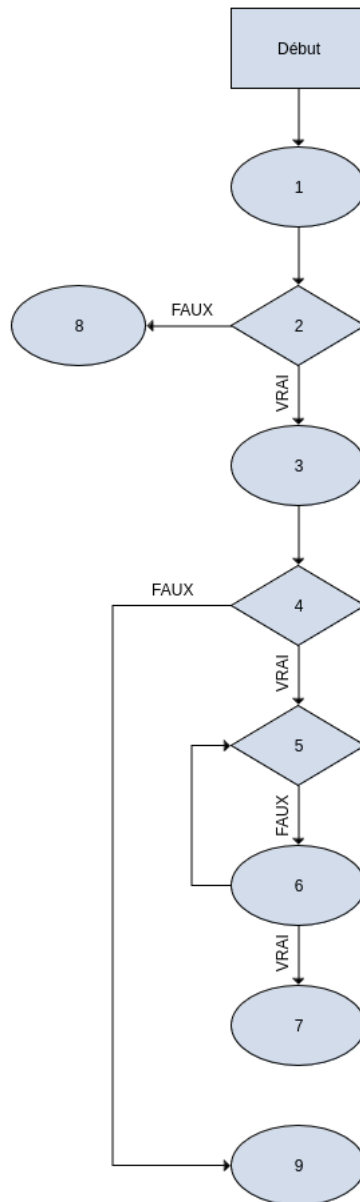
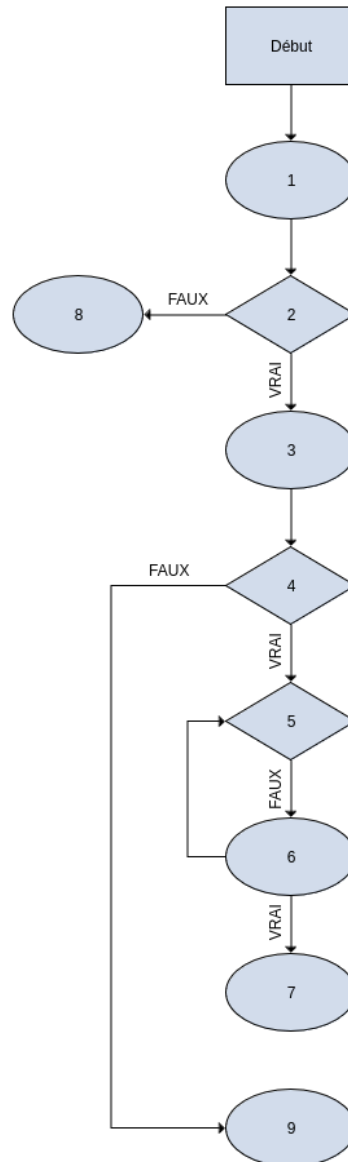C1 = 1-2-8
C2 = 1-2-3-4-5-6-7
contexte : dans la base de donnée sont stockés les uids 1 et 2 correspondant respectivement à user1 et user2

Test	$uid	Sortie
C2	67	"unknown user"
C2	1	"user1"

Méthode getAllTechnicians

```php
public static function getAllTechnicians(): array
{
    // SECTION 1
    $technicians = array();

    $request = "SELECT UID, role, login
                FROM User
                WHERE role='technician';";
    $conn = Connexion::getConn();
    // FIN SECTION 1
    try // SECTION 2
    {
        // SECTION 3
        $stmt = $conn->prepare($request);
        $stmt->execute();
        $result = $stmt->get_result();
        // FIN SECTION 3
        if ($result->num_rows > 0) // SECTION 4
        {
            while($row = $result->fetch_array()) // SECTION 5
            {
                // SECTION 6
                $uid = $row['UID'];
                $role = $row['role'];
                $login = $row['login'];
                $technicians[] = new User($uid, $login, $role);
                // FIN SECTION 6
            }
        }
        return $technicians; // SECTION 7
    }
    catch (Exception $e)
    {
        echo "Erreur de selection : ", $e; // SECTION 8
    }
    return array(); // SECTION 9
}
```

C1 = 1-2-8
C2 = 1-2-3-4-9
C3 = 1-2-3-4-5-6-7

Contexte : le C2 est dans le cas ou la base de donnée ne possède aucun technicien

Test	Connexion::getConn()	Sortie
C1	NULL	Exception
C2	NOT NULL	array().length == 0
C3	NOT NULL	array().length > 0

Méthode getAllUser

```php
public static function getAllUser(): array
{
    // SECTION 1
    $concernees = array();
    $request = "SELECT * FROM User WHERE role='user' ORDER BY login;";
    $conn = Connexion::getConn();
    // FIN SECTION 1
    try // SECTION 2
    {
        // SECTION 3
        $stmt = $conn->prepare($request);
        $stmt->execute();
        $result = $stmt->get_result();
        // FIN SECTION 3
        while($row = $result->fetch_array()) // SECTION 4
        {
            // SECTION 5
            $login = $row['login'];
            $uid = $row['UID'];
            $concernees[$uid] = array($login);
            // FIN SECTION 5
        }

        return $concernees; // SECTION 6
    }
    catch (Exception $e)
    {
        echo "Erreur de selection : ", $e; // SECTION 7
    }
    return array(); // SECTION 8
}
```

C1 = 1-2-8
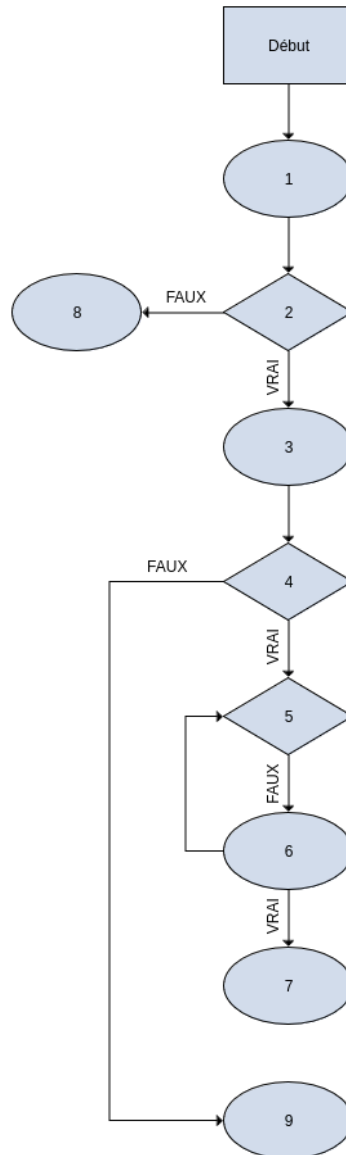C2 = 1-2-3-4-9
C3 = 1-2-3-4-5-6-7

Contexte : le C2 est dans le cas ou la base de donnée ne possède aucun
utilisateur

Test	Connexion::getConn()	Sortie
C1	NULL	Exception
C2	NOT NULL	array().length == 0
C3	NOT NULL	array().length > 0

LabelFunc

getLabelNameByID

```php
function getLabelNameById($id): ?string
{
    // SECTION 1
    $request = "SELECT name FROM Label WHERE Label_ID=?";
    $conn = Connexion::getConn();
    $stmt = $conn->prepare($request);
    $stmt->bind_param("i", $id);
    $stmt->execute();
    $result = $stmt->get_result();
    // FIN SECTION 1
    if ($result->num_rows == 1) // SECTION 2
    {
        while($row = $result->fetch_assoc()) // SECTION 3
        {
            // SECTION 4
            $name = $row['name'];
            return $name;
            // FIN SECTION 4
        }
    }
    return null; // SECTION 5
}
```
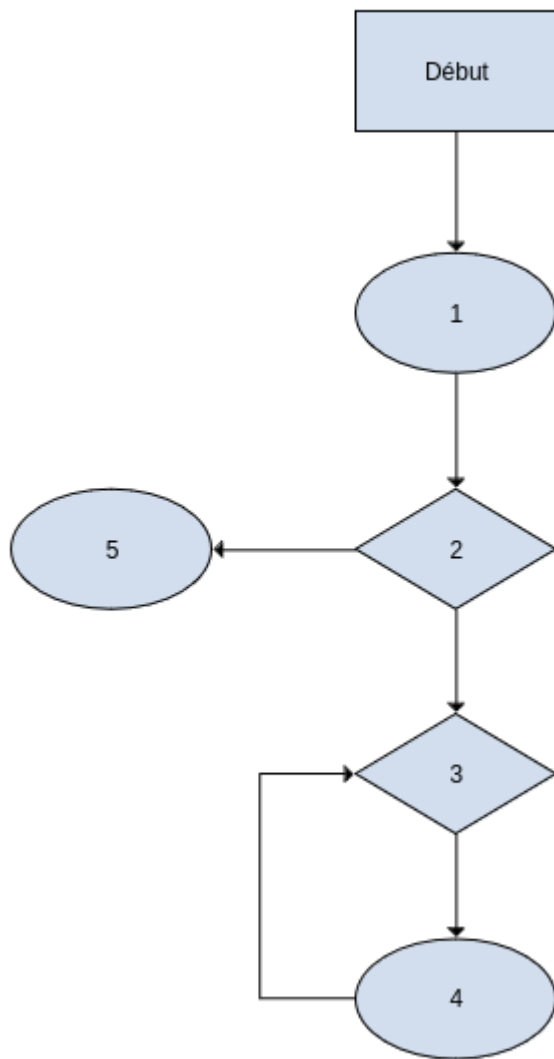
C1 = 1-2-5
C2 = 1-2-3-4

contexte : un Label_ID = 1 existe

Test	$id	Sortie
C1	1	'problème'
C2	57	null

archive

```php
function archive($id): void
{
    // SECTION 1
    $request = "UPDATE Label
    SET archivé = 1
    WHERE Label_ID = ?";
    $conn = Connexion::getConn();
    // FIN SECTION 1
    try // SECTION 2
    {
        // SECTION 3
        $stmt = $conn->prepare($request);
        $stmt->bind_param("i", $id);
        $stmt->execute();
        // FIN SECTION 3
    }
    catch (Exception $e)
    {
        throw new Exception("Erreur lors de l'archivage du label"); //
SECTION 4

    }
}
```
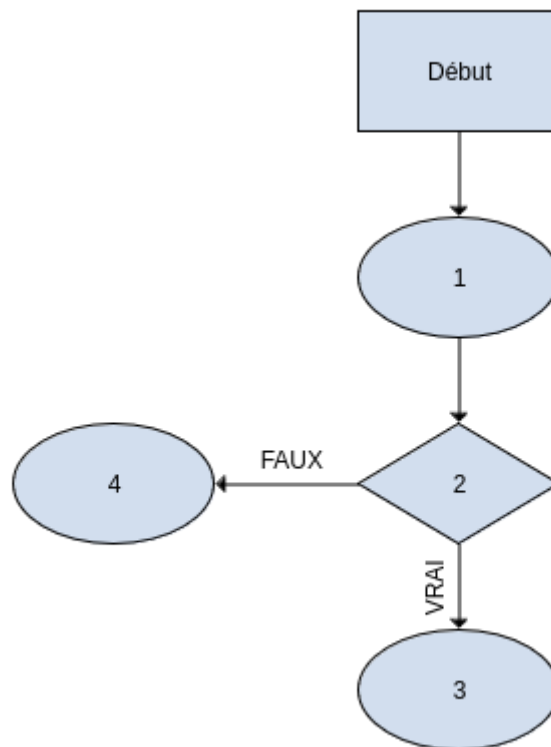
C1 = 1-2
C2 = 1-2-3

<u>contexte :</u> un Label_ID = 1 n'est pas archivé

Test	$id	Sortie
C1	1	true
C2	57	Exception

logsFunc

Fonction list_dir
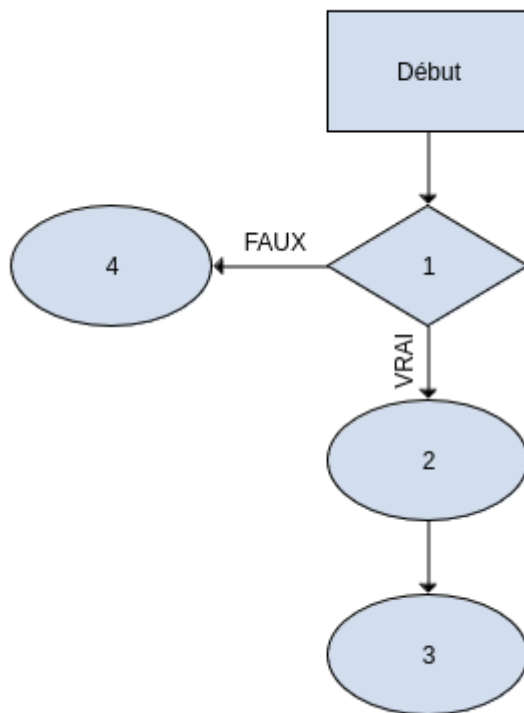
```php
function list_dir($path): array
{
    if (scandir($path)) // SECTION 1
    {
        $arr = scandir($path); // SECTION 2
        return array_diff($arr, array('.', '..')); // SECTION 3
    }
    else
```

```
    {
        return array(); // SECTION 4
    }
}
```


C1 = 1-4
C2 = 1-2-3

Contexte : log1/a est un dossier vide et log2/b est un dossier non vide qui contient le fichier test.csv

Test	$path	Sortie
C1	'log1/a'	array('test.csv')
C2	'log2/b'	array()

Controller:

Pour des raisons de lisibilité, les $POST['login'], $POST['password'], … seront simplifiés par un seul $_POST donc nous partons du principe que l'utilisateur doit remplir tous les champs d'un formulaire.

UserController

case : formTec

```php
if (isset($_SESSION["user"]) && unserialize($_SESSION['user'])->getRole() ==
'webadmin') // SECTION 1
    {
        include('Vues/User/formCreationTec.php'); // SECTION 2
    }
    else
    {
        header('Location: index.php'); // SECTION 3
    }
```
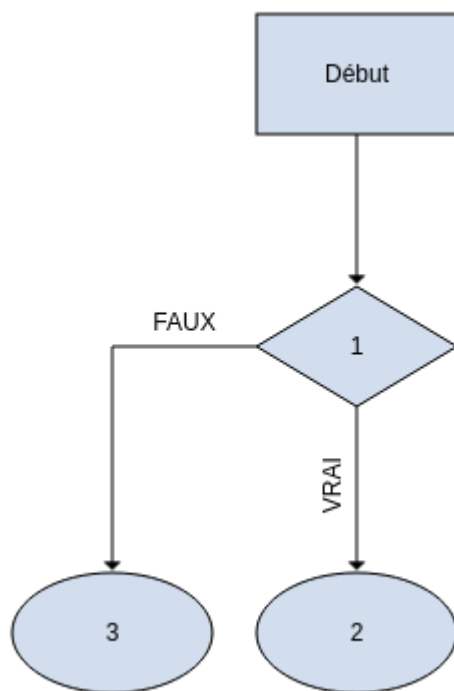

	$_SESSION["user"]	User.role	Résultat
C1	NOT NULL	webadmin	formCreationTec.php

C2	NOT NULL	user	index.php
C3	NULL	NULL	index.php

case : validerFormTec

```php
if ((isset($_SESSION["user"], $_POST['pwd'], $_POST['login'])) &&
unserialize($_SESSION['user'])->getRole() == 'webadmin' && !empty($_POST['pwd'])
&& !empty($_POST['login'])) // SECTION 1
        {
            include('Modeles/rc4.php');
            try // SECTION 2
            {
                // SECTION 3
                $_POST['pwd'] = rc4Encrypt($_POST['pwd']);
                $conn = Connexion::getConn();
                $stmt = $conn->prepare('INSERT INTO User (role, login, password)
VALUES (?, ?, ?);');
                $login = htmlspecialchars($_POST['login']);
                $pwd = htmlspecialchars($_POST['pwd']);
                $role = "technician";
                $stmt->bind_param("sss", $role, $login, $pwd);
                // FIN SECTION 3
                if ($stmt->execute()) // SECTION 4
                {
                    // SECTION 5
                    $user = unserialize($_SESSION['user']);
                    $ipAddress = $_SERVER['REMOTE_ADDR'];
                    $details = 'L\'administrateur web '.$user->getLogin().' a
créé le technicien '.$login.' avec succès';
                    $message = getLogMessage(date('Y-m-d H:i:s'), 'INFO',
'Inscription', $details, $ipAddress);
                    write("log", $logfile, $message);
                    echo "<div class='messages'>
                    <h2>Le technicien ".$_POST['login']." a bien été créé.</h2>
                    <br>
                    <a href='index.php'>Cliquez pour revenir à l'accueil</a>
                </div>";
                    // FIN SECTION 5
                }
                else
                {
                    header('Location:
index.php?uc=inscription&action=errorCreationTec'); // SECTION 7
                }
            }
            catch (Exception $e)
            {
                $errorCode = $e->getCode();
```

```php
            if ($errorCode == 1062) // SECTION 8
            {
                header('Location:
index.php?uc=inscription&action=errorCreationTecDupli'); // SECTION 9
            }
            else
            {
                header('Location:
index.php?uc=inscription&action=errorCreationTec'); // SECTION 10
            }
        }

    }
    else
    {
        header('Location:
index.php?uc=inscription&action=errorCreationTec'); // SECTION 11
    }
```
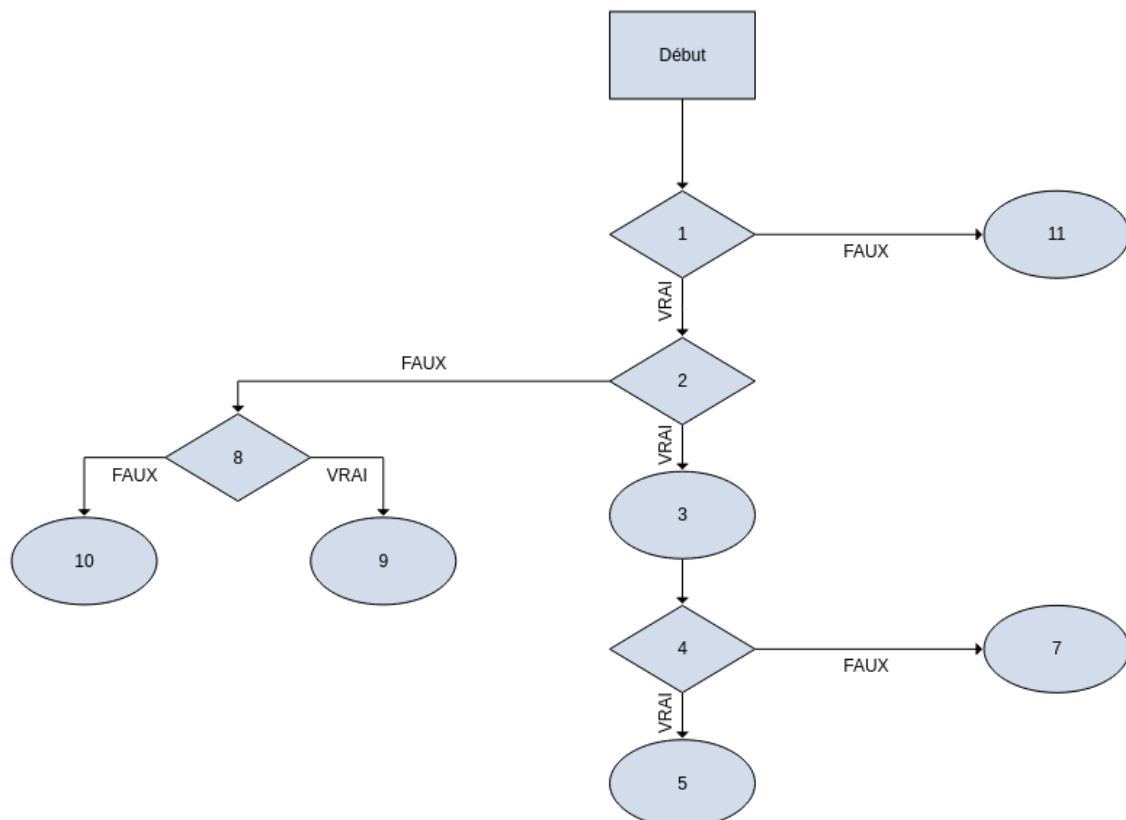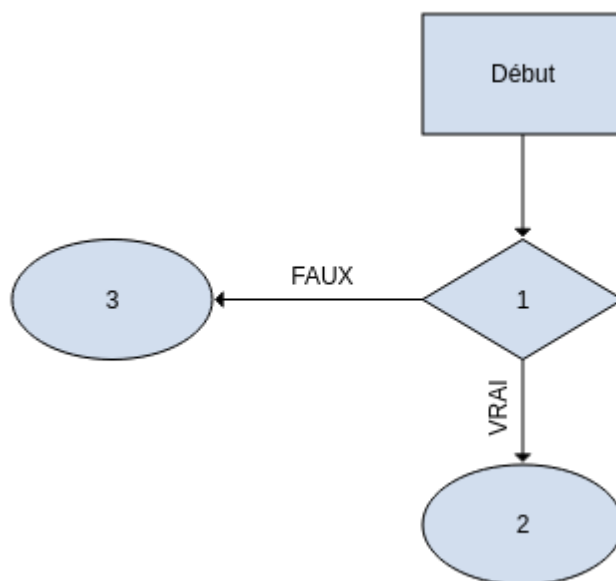
	$_POST['login']	$_POST['pwd']	$_SESSION["user"]	User.role	Résultat
C1	technicien1	azerty	NOT NULL	webadmin	technicien créé
C2	technicien1	NULL	NOT NULL	webadmin	index.php
C3	NULL	NULL	NOT NULL	webadmin	index.php
C4	technicien1	azerty	NULL	NULL	index.php
C5	NULL	NULL	NULL	NULL	index.php

case : formConnexion

```php
if (empty($_SESSION["user"])) // SECTION 1
{
    include('Vues/User/formConnexion.php'); // SECTION 2
}
else
{
    header('Location: index.php'); // SECTION 3
}
```

	$_SESSION['user']	Résultat
C1	NULL	formConnexion.php
C2	NOT NULL	index.php

case : validerFormConnexion

```php
if (isset($_POST['login'], $_POST['pwd'], $_POST['captcha'], $_POST['num1'],
$_POST['num2']) && (empty($_SESSION["user"]) && !empty($_POST["pwd"]) &&
!empty($_POST["login"]) && !empty($_POST["num1"]) & !empty($_POST["num2"]) &
!empty($_POST["captcha"]))) // SECTION 1
      {
          // SECTION 2
          include("Modeles/rc4.php");
          $num1 = $_POST["num1"];
          $num2 = $_POST["num2"];
          $captcha = $_POST['captcha'];
          // FIN SECTION 2
          if ($num1+$num2 == $captcha) // SECTION 3
          {
              // SECTION 4
              $_POST['pwd'] = rc4Encrypt($_POST['pwd']);
              $conn = Connexion::getConn();
              $stmt = $conn->prepare('SELECT UID, role FROM User WHERE
login=? AND password=?;');
              $stmt->bind_param("ss", $_POST['login'], $_POST['pwd']);
              $stmt->execute();
              $result = $stmt->get_result();
              // FIN SECTION 4
              if ($result->num_rows == 1) // SECTION 5
              {
                  // SECTION 6
                  $row = $result->fetch_assoc();
                  $uid = $row['UID'];
                  $role = $row['role'];
                  // FIN SECTION 6
              }
              else
              {
                  header('Location:
index.php?uc=inscription&action=errorConnexion'); // SECTION 7
              }
          }
          else
          {
```

```php
            header('Location:
index.php?uc=inscription&action=errorConnexion'); // SECTION 8
        }
    }
    else if (isset($_SESSION['user'])) // SECTION 9
    {
        header('Location: index.php'); // SECTION 10
    }

    else
    {
        header('Location:
index.php?uc=inscription&action=errorConnexion'); // SECTION 11
    }
    $stmt->close();
    if ($result->num_rows == 1) // SECTION 12
    {
        // SECTION 13
        $ipAddress = $_SERVER['REMOTE_ADDR'];
        $details = 'L\'utilisateur '.$_POST['login'].' s\'est connecté
avec succès';
        $message = getLogMessage(date('Y-m-d H:i:s'), 'INFO',
'Connexion', $details, $ipAddress);
        write("log", $logfile, $message);
        $_SESSION['user'] = serialize(new User($uid, $_POST['login'],
$role));
        // FIN SECTION 13
    }
    echo "<div class='messages'>
            <h2>Heureux de vous revoir ".$_POST['login']." !</h2>
            <br>
            <a href='index.php'>Cliquez pour revenir à l'accueil.</a>
        </div>"; // SECTION 14
```
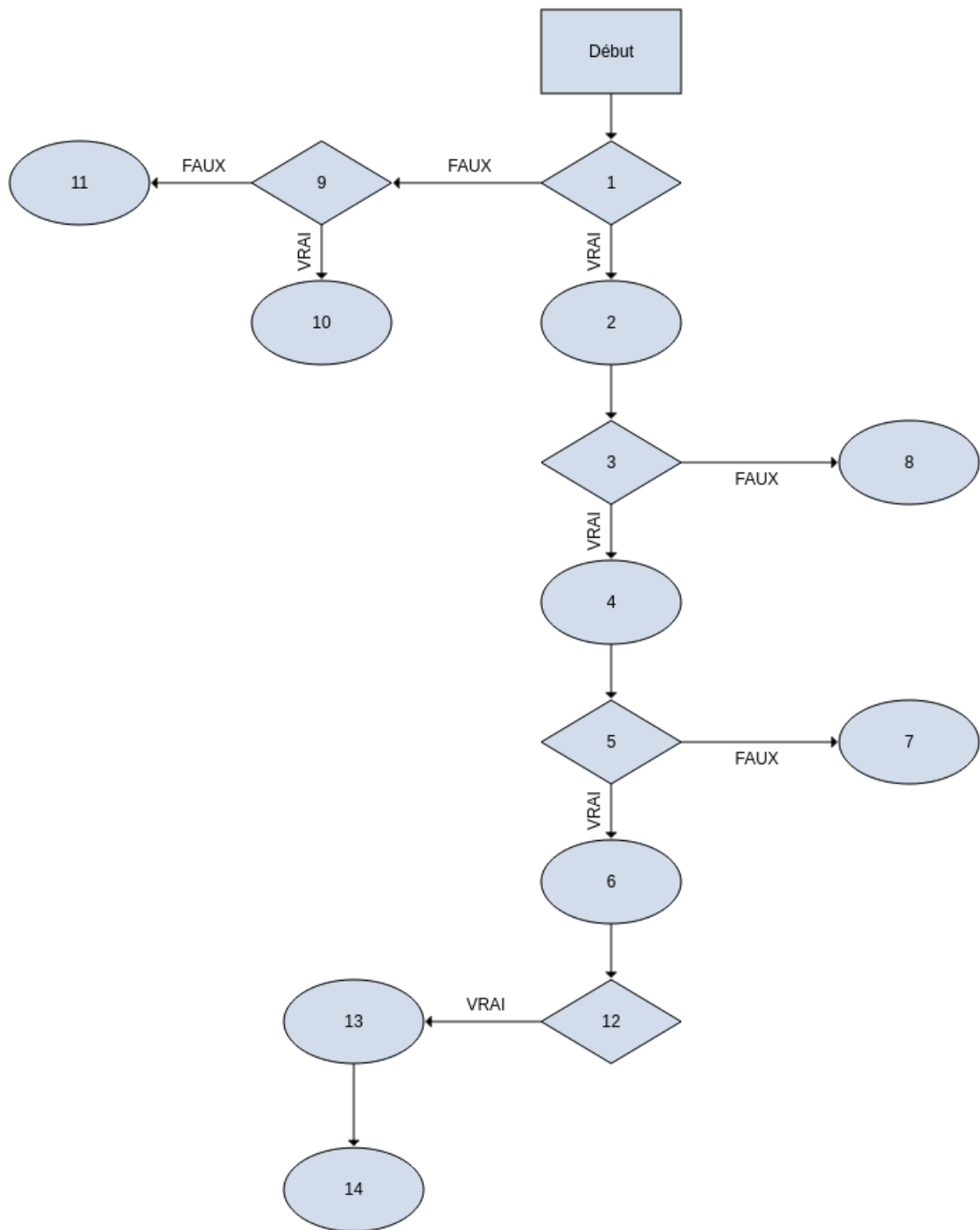
	$POST	User.role	$result->num_rows	Résultat
C1	NOT NULL	NULL	1	Connexion au compte
C2	NOT NULL	NOT NULL	NULL	Ne se connecte pas
C3	NOT NULL	NULL	num_rows != 1	Ne se connecte pas
C4	NULL	NULL	NULL	Ne se connecte pas
C5	NULL	NOT NULL	NULL	Ne se connecte pas

case : formInscription

```php
if (empty($_SESSION['user'])) // SECTION 1
    {
        include('Vues/User/formInscription.php'); // SECTION 2
    }
    else
    {
        header('Location: index.php'); // SECTION 3
    }
```
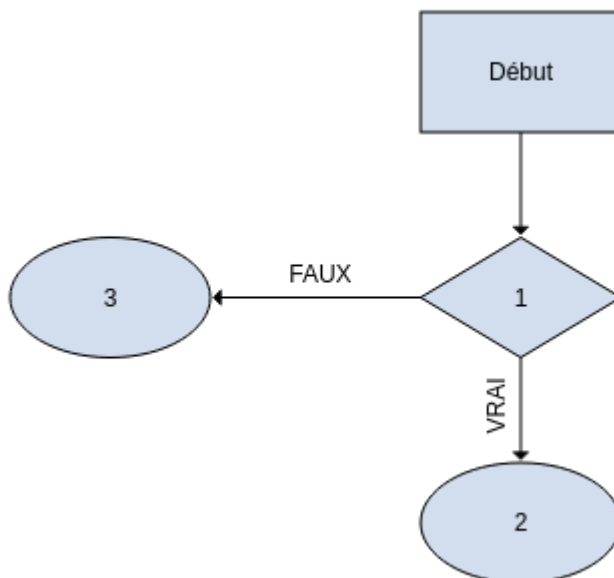

	$_SESSION['user']	Résultat
C1	NULL	formInscription.php

C2	NOT NULL	index.php

case : validerFormInscription

```php
if (isset($_POST['login'], $_POST['pwd'], $_POST['captcha'], $_POST['num1'],
$_POST['num2']) && (empty($_SESSION["user"]) && !empty($_POST["pwd"]) &&
!empty($_POST["login"]) && !empty($_POST["num1"]) & !empty($_POST["num2"]) &
!empty($_POST["captcha"]))) // SECTION 1
    {
        include("Modeles/rc4.php");
        try // SECTION 2
        {
            // SECTION 3
            $num1 = $_POST["num1"];
            $num2 = $_POST["num2"];
            $captcha = $_POST['captcha'];
            // FIN SECTION 3
            if ($num1 + $num2 == $captcha) // SECTION 4
            {
                // SECTION 5
                $_POST['pwd'] = rc4Encrypt($_POST['pwd']);

                $conn = Connexion::getConn();

                $stmt = $conn->prepare('CALL addUser(?, ?);');
                $login = htmlspecialchars($_POST['login']);
                $pwd = htmlspecialchars($_POST['pwd']);
                $role = "user";
                $stmt->bind_param("ss", $login, $pwd);
                // FIN SECTION 5
                if ($stmt->execute()) // SECTION 6
                {
                    // SECTION 7
                    $stmt = $conn->prepare('SELECT UID FROM User WHERE
login=? AND password=? AND role=?');
                    $stmt->bind_param("sss", $login, $pwd, $role);
                    $stmt->execute();

                    $result = $stmt->get_result();
                    // FIN SECTION 7
                    if ($result->num_rows == 1) // SECTION 8
                    {
                        // SECTION 9
                        $row = $result->fetch_assoc();
                        $uid = $row['UID'];
```

```php
                        // FIN SECTION 9
                    }
                    // SECTION 10
                    $stmt->close();

                    $_SESSION['user'] = serialize(new User($uid, $login,
$role));

                    $ipAddress = $_SERVER['REMOTE_ADDR'];
                    $details = 'L\'utilisateur '.$login.' a été créé avec
succès';
                    $message = getLogMessage(date('Y-m-d H:i:s'), 'INFO',
'Inscription', $details, $ipAddress);
                    write("log", $logfile, $message);
                    echo "<div class='messages'>
                            <h2>Votre compte a bien été créé !</h2>
                            <br>
                            <a href='index.php'>Cliquez pour revenir à
l'accueil.</a>
                        </div>";
                    // FIN SECTION 10
                }
                else
                {
                    header('Location:
index.php?uc=inscription&action=errorInscription'); // SECTION 11
                }
            }
            else
            {
                header('Location:
index.php?uc=inscription&action=errorInscription'); // SECTION 12
            }
        }
        catch (Exception $e)
        {
            $errorCode = $e->getCode();

            if ($errorCode == 1062) // SECTION 13
            {
                header('Location:
index.php?uc=inscription&action=errorInscriptionDupli'); // SECTION 14
            }
            else
            {
                header('Location:
index.php?uc=inscription&action=errorInscription'); // SECTION 15
            }
        }
```
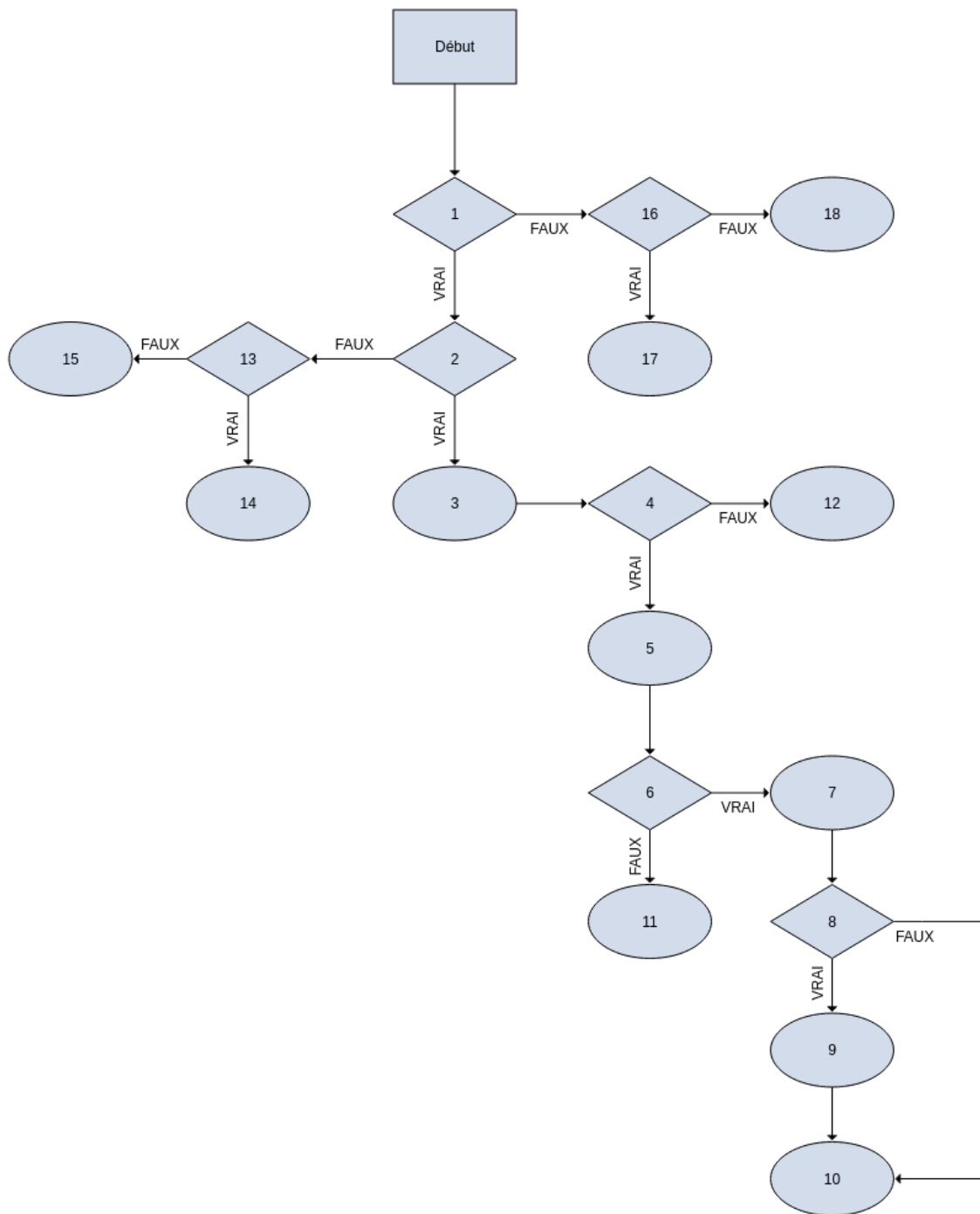
```php
        }
        else if(isset($_SESSION['user'])) // SECTION 16
        {
            header('Location: index.php'); // SECTION 17
        }
        else
        {
            header('Location:
index.php?uc=inscription&action=errorInscription'); // SECTION 18
        }
```

	$_POST	$_SESSION['user']	num1	num2	captcha	Résultat
C1	NOT NULL	NULL	2	2	4	Inscription
C2	NOT NULL	NOT NULL	NULL	NULL	NULL	index.php

C3	NULL	NULL	NULL	NULL	NULL	index.php
C4	NOT NULL	NULL	2	3	9	captcha incorrect

case : errorCreationTecDupli

```php
if (isset($_SESSION['user']) &&
unserialize($_SESSION['user'])->getRole()=='webadmin') // SECTION 1
    {
        // SECTION 2
        echo "
        <div class='messages'>
            <p style='color:red;'>Une erreur est survenue, le technicien
existe déjà !</p>
        </div>";
        $user = unserialize($_SESSION['user']);
        $ipAddress = $_SERVER['REMOTE_ADDR'];
        $details = 'L\'administrateur web '.$user->getLogin().' a tenté
de créer un technicien déjà existant';
        $message = getLogMessage(date('Y-m-d H:i:s'), 'ERROR',
'Inscription', $details, $ipAddress);
        write("log", $logfile, $message);
        include('Vues/User/formCreationTec.php');
        // FIN SECTION 2
    }
    else
    {
        header('Location: index.php'); // SECTION 3
    }
```
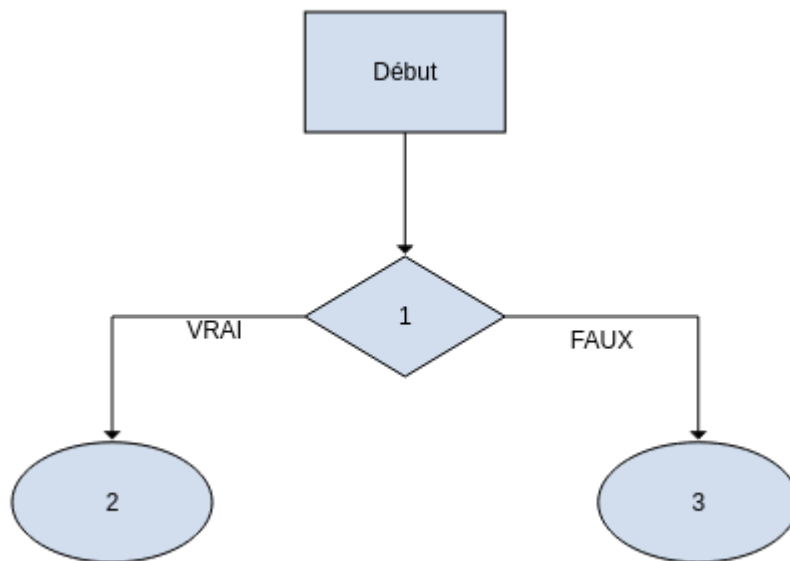
	$_SESSION	User.role	Résultat
C1	NOT NULL	webadmin	affiche erreur
C2	NOT NULL	role != 'webadmin'	index.php
C3	NULL	NULL	index.php

case : errorCreationTec

```php
if (isset($_SESSION['user']) &&
unserialize($_SESSION['user'])->getRole()=='webadmin') // SECTION 1
    {
        // SECTION 2
        echo "
        <div class='messages'>
            <p style='color:red;'>Une erreure est survenue, vérifiez bien
votre saisie !</p>
        </div>";
        $user = unserialize($_SESSION['user']);
        $ipAddress = $_SERVER['REMOTE_ADDR'];
        $details = 'L\'administrateur web '.$user->getLogin().' a tenté
de créer un technicien mais une erreur est survenue';
        $message = getLogMessage(date('Y-m-d H:i:s'), 'ERROR',
'Inscription', $details, $ipAddress);
        write("log", $logfile, $message);
        include('Vues/User/formCreationTec.php');
```
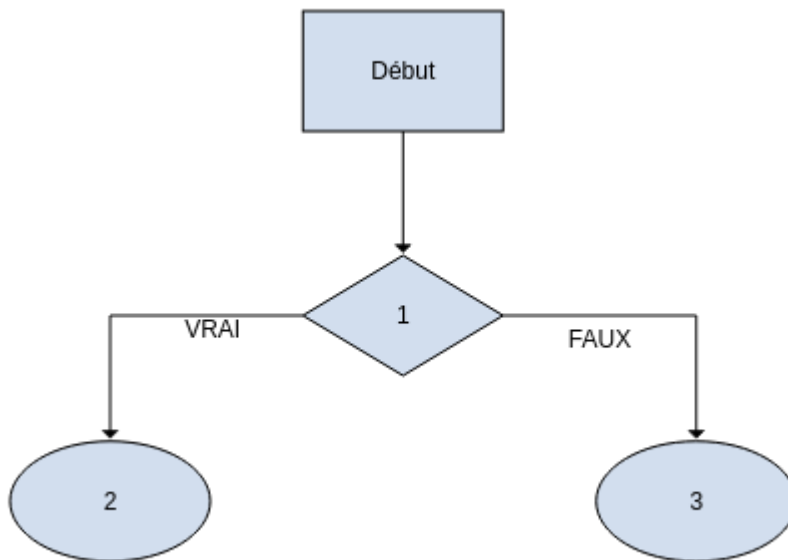
```
        // FIN SECTION 2
    }
    else
    {
        header('Location: index.php'); // SECTION 3
    }
```


	$_SESSION['user']	User.role	Résultat
C1	NOT NULL	webadmin	affiche erreur
C2	NOT NULL	role != 'webadmin'	index.php
C3	NULL	NULL	index.php

case : errorInscriptionDupli

```
if (isset($_SESSION['user'])) // SECTION 1
    {
        header('Location: index.php'); // SECTION 2
    }
    else
    {
```

```php
        // SECTION 3
        echo "<div class='messages'>
                <p style='color:red;'>Une erreure est survenue,
l'utilisateur existe déjà !</p>
                </div>";
        include('Vues/User/formInscription.php');
        $ipAddress = $_SERVER['REMOTE_ADDR'];
        $details = 'Un utilisateur a tenté de créer un compte qui existe
déjà';
        $message = getLogMessage(date('Y-m-d H:i:s'), 'ERROR',
'Inscription', $details, $ipAddress);
        write("log", $logfile, $message);
        // FIN SECTION 3
    }
```
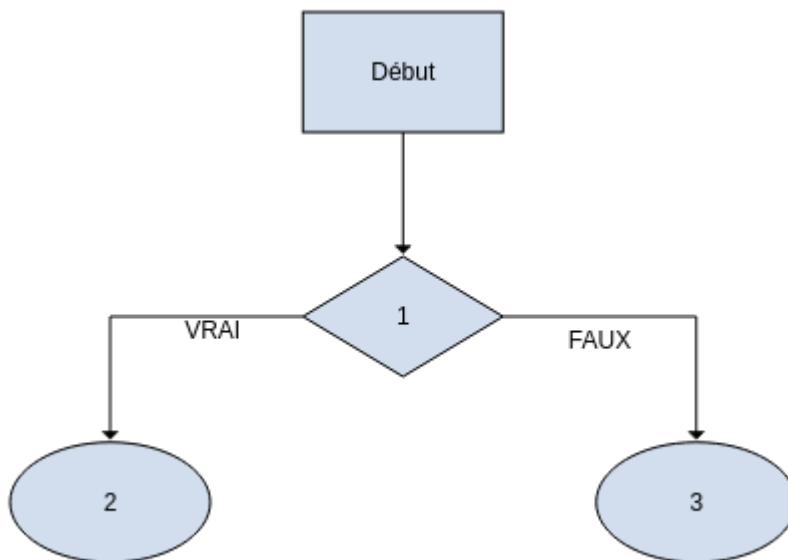

	$_SESSION['user']	Résultat
C1	NOT NULL	index.php
C2	NULL	affiche erreur

case :errorInscription

```php
if (isset($_SESSION['user'])) // SECTION 1
    {
```
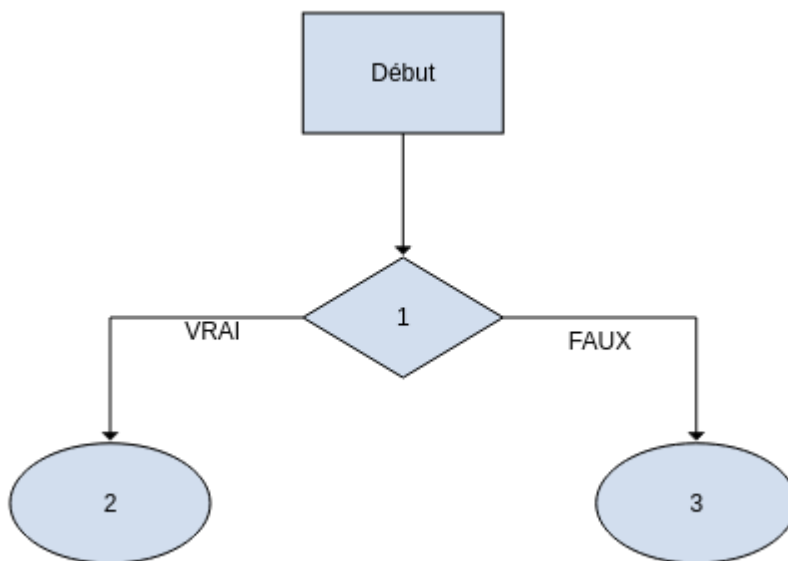
```php
            header('Location: index.php'); // SECTION 2
        }
        else
        {
            // SECTION 3
            echo "<div class='messages'>
                    <p style='color:red;'>Une erreur est survenue, vérifiez
bien votre saisie !</p>
                </div>";
            include('Vues/User/formInscription.php');
            $ipAddress = $_SERVER['REMOTE_ADDR'];
            $details = 'Un utilisateur a tenté de créer un compte mais une
erreur est survenue';
            $message = getLogMessage(date('Y-m-d H:i:s'), 'ERROR',
'Inscription', $details, $ipAddress);
            write("log", $logfile, $message);
            // FIN SECTION 3
        }
```
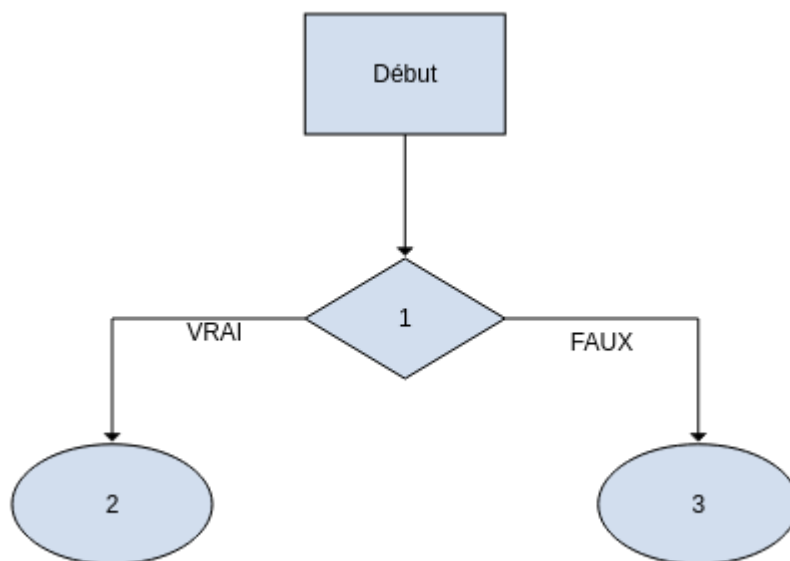

	$\_SESSION['user']$	Résultat
C1	NULL	index.php
C2	NOT NULL	affiche erreur

case : errorConnexion

```php
if (isset($_SESSION['user'])) // SECTION 1
    {
        header('Location: index.php'); // SECTION 2
    }
    else
    {
        // SECTION 3
        echo "<div class='messages'>
                <p style='color:red;'>Nous n'avons pas trouvé votre
utilisateur !</p>
            </div>";
        include('Vues/User/formConnexion.php');
        $ipAddress = $_SERVER['REMOTE_ADDR'];
        $details = 'Un utilisateur a tenté de se connecter';
        $message = getLogMessage(date('Y-m-d H:i:s'), 'ERROR',
'Connexion', $details, $ipAddress);
        write("log", $logfile, $message);
        // FIN SECTION 3
    }
```
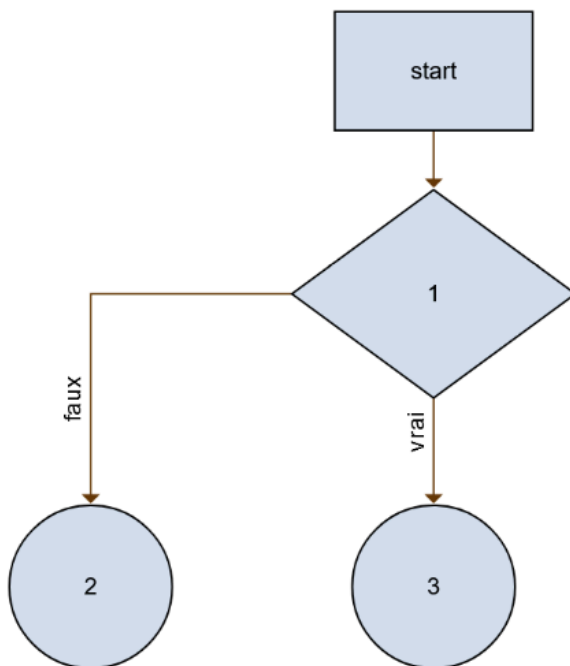

	$_SESSION['user']	Résultat
C1	NULL	index.php
C2	NOT NULL	affiche erreur

dashboardController

case : form

```php
      if (isset($_SESSION['user']) && // SECTION 1
unserialize($_SESSION['user'])->getRole()=='user')
// FIN DE LA SECTION 1
      {
            include('Vues/Ticket/formTicket.php'); // SECTION 3
      }
      else
      {
            header("Location: index.php"); // SECTION 2
      }
      break;
```
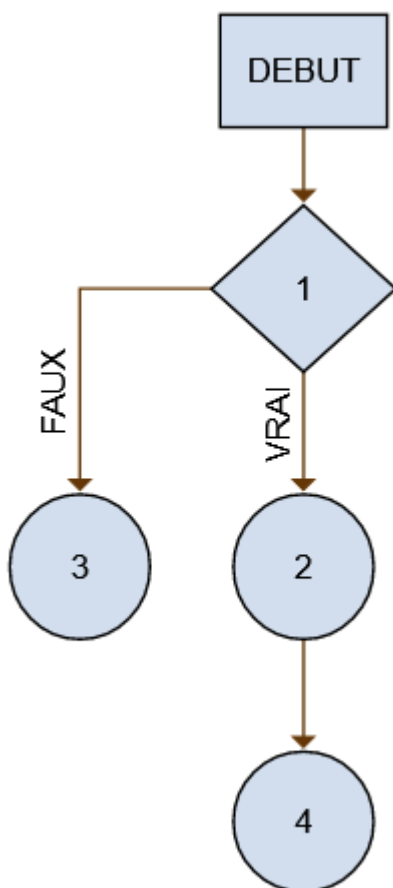

Chemin 1 : Start -> 1-> 2 -> fin
Chemin 2 : Start -> 1 -> 3 -> fin

	$_SESSION["user"]	User.role	Résultat
C1	NOT NULL	user	formTicket.php
C2	NULL	NULL	index.php
C3	NOT NULL	zeoifbozrieb	index.php
C4	NULL	user	index.php

case : validerForm


```
case 'validerForm' :
// SECTION 1
    if (isset($_POST['label'], $_POST['description'],
```

```php
$_POST['urgence'], $_POST['concernee']) & isset($_SESSION['user']))
// FIN DE LA SECTION 1
    {
            // SECTION 2
            $urgence = htmlspecialchars($_POST['urgence']);
            $desc = htmlspecialchars($_POST['description']);
            $label = $_POST['label'];
            $concernee = htmlspecialchars($_POST['concernee']);
            $user = unserialize($_SESSION['user']);
            $ticket = new Ticket($user->getUID(), $urgence, $label,
$concernee, $desc, $_SERVER['REMOTE_ADDR']);
            $user->createTicket($ticket);
            $_SESSION['user'] = serialize($user);
            // FIN DE LA SECTION 2
    }
    else
    {
            // SECTION 3
            header('Location: index.php?uc=dashboard&action=error');
    }
    echo "<div class='messages'> // SECTION 4
                <h2>Votre ticket a bien été créé !</h2>
                <br>
                <a href='index.php?uc=dashboard&action=list'>Cliquez
pour revenir au tableau de bord</a>
            </div>";
    break;
```

case assignerTicketTec :

```php
case 'assignerTicketTec':
// SECTION 1
    if (isset($_POST['uid'], $_POST['tec'], $_POST['urgence_level'],
$_POST['date'], $_POST['label_ID'], $_POST['status'], $_POST['desc'],
$_POST['concernee'], $_POST['IP']) &&
unserialize($_SESSION['user'])->getRole() == 'technician')
    // FIN 1
    {
```

```php
        // SECTION 2
        $tec = unserialize($_SESSION['user']);
        $ticket = new Ticket($_POST['uid'], $_POST['urgence_level'],
$_POST['label_ID'], $_POST['concernee'], $_POST['desc'], $_POST['IP'],
$_POST['date'], $_POST['status'], $_POST['tec']);
        $ticket->setTechnician($tec->getUid());
        echo "<div class='messages'>
            <p style='color: green;'>Un ticket d'urgence
".$niveauxUrgence[$ticket->getUrgence()]." vous a été attribué!</p>
            </div>";
        include('Vues/Ticket/dashboard.php');
    // FIN 2
        }
    else
    {
        header('Location : index.php'); // SECTION 3
    }
    break;
```
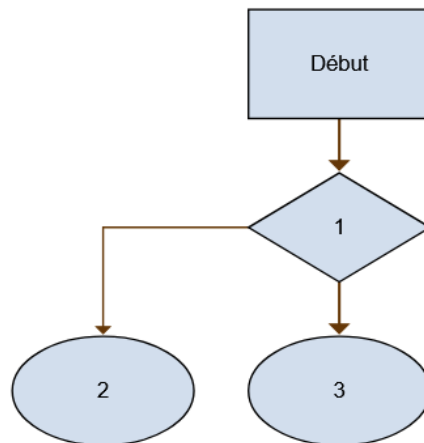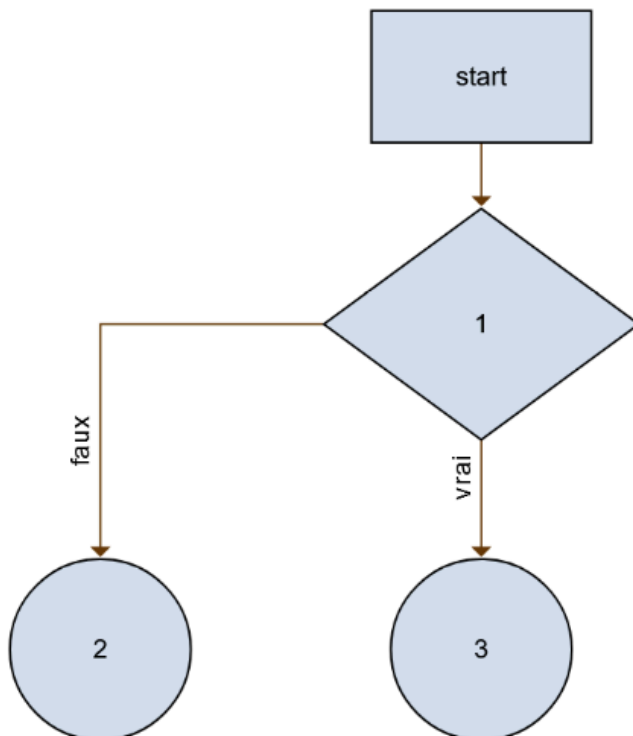

Chemins	$_POST[]	$_SESSION['user']	résultat
C1	NOT NULL	technician	setTechnician
C2	NULL	technician	index.php
C3	NULL	user	index.php
C4	NOT NULL	user	index.php

case : validerFormWebadmin

```php
if (isset($_POST['uid'], $_POST['urgence_level'], // SECTION 1
$_POST['date'],$_POST['label_ID'], $_POST['status'], $_POST['desc'],
$_POST['concernee'], $_POST['IP']) &&
unserialize($_SESSION['user'])->getRole() == 'webadmin' &&
!empty($_POST['tec'])) // FIN DE LA SECTION 1
      { // SECTION 2
            $ticket = new Ticket($_POST['uid'], $_POST['urgence_level'],
$_POST['label_ID'], $_POST['concernee'], $_POST['desc'], $_POST['IP'],
$_POST['date'], $_POST['status']);
            $ticket->setTechnician($_POST['tec']);
            echo "<div class='messages'>
                  <p style='color: green;'>Un ticket d'urgence
".$niveauxUrgence[$ticket->getUrgence()]." a été attribué à
".User::getLoginByUID($ticket->getTechnician())."</p>
                  </div>";
            include('Vues/Ticket/dashboard.php');
      } // FIN DE LA SECTION 2
      else // SECTION 3
      {
            header('Location: index.php');
      }
      break; // FIN DE LA SECTION 3
```
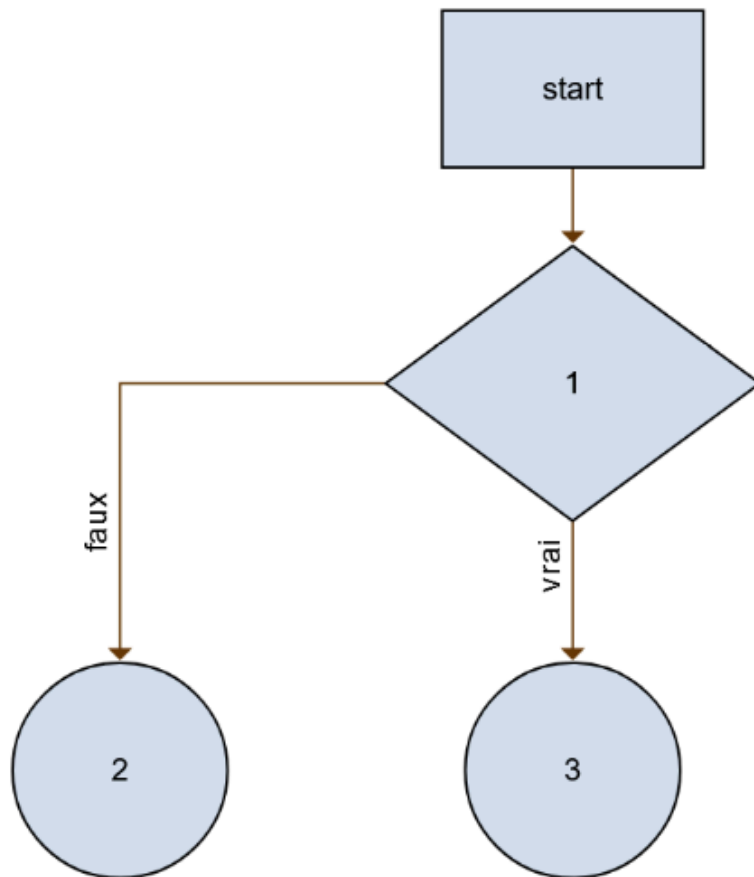
Chemin 1 : Start -> 1-> 2 -> fin
Chemin 2 : Start -> 1 -> 3 -> fin

	$_POST	user.role	résultat
C1	NOT NULL	user	index.php
C2	NULL	technician	index.php
C3	NULL	user	index.php
C4	NOT NULL	technician	setTechnician

case : assignerTicketWebadmin

```php
        if (isset($_POST['uid'], $_POST['urgence_level'], // SECTION 1
$_POST['date'], $_POST['label_ID'], $_POST['status'], $_POST['desc'],
$_POST['concernee'], $_POST['IP']) &&
unserialize($_SESSION['user'])->getRole() == 'webadmin')
        { // FIN DE LA SECTION 1
            include("Vues/User/formAssignerTec.php"); // SECTION 2
        }
        else // FIN DE LA SECTION 2
        { // SECTION 3
            header('Location: index.php');
        }
        break; // FIN DE LA SECTION 3
```

	$_POST	user.role	résultat
C1	NOT NULL	user	index.php
C2	NULL	webadmin	index.php
C3	NULL	user	index.php
C4	NOT NULL	webadmin	formAssignerTec.php

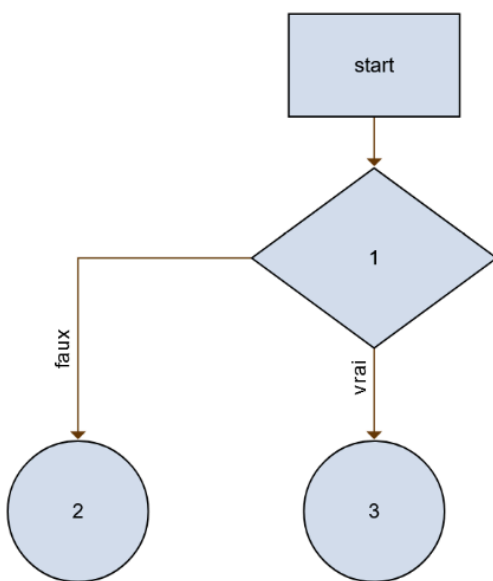Chemin 1 : Start -> 1-> 2 -> fin
Chemin 2 : Start -> 1 -> 3 -> fin

case : myTickets

```php
        if (isset($_SESSION['user']) &&  // SECTION 1
unserialize($_SESSION['user'])->getRole()=='technician')
// FIN DE LA SECTION 1
        { // SECTION 2
            include ('Vues/Ticket/myTickets.php');
        } // FIN DE LA SECTION 2
        else
        { // SECTION 3
            header('Location: index.php');
        } // FIN DE LA SECTION 3
        break;
```
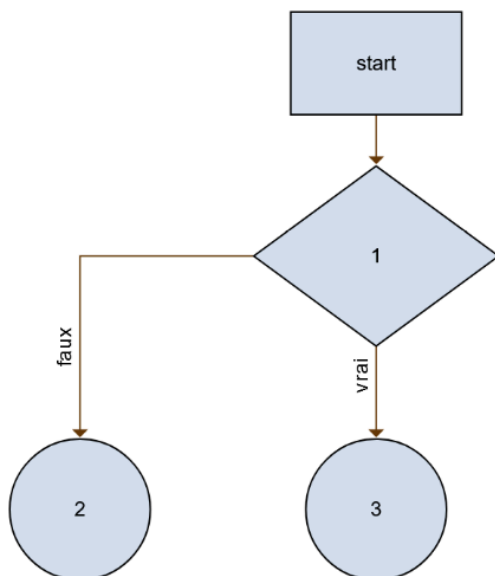

	$_POST	user.role	résultat
C1	NOT NULL	user	index.php
C2	NULL	technician	index.php
C3	NULL	user	index.php
C4	NOT NULL	technician	myTickets.php

Chemin 1 : Start -> 1-> 2 -> fin
Chemin 2 : Start -> 1 -> 3 -> fin

case : validerModifierEtat

```php
        if (isset($_POST['uid'], $_POST['urgence_level'], // SECTION 1
$_POST['date'], $_POST['label_ID'], $_POST['status'], $_POST['desc'],
$_POST['tec'], $_POST['concernee'], $_POST['IP']) &&
unserialize($_SESSION['user'])->getRole() == 'technician' &&
!empty($_POST['etat'])) // FIN DE LA SECTION 1
        {
// SECTION 2
            $ticket = new Ticket($_POST['uid'], $_POST['urgence_level'],
$_POST['label_ID'], $_POST['concernee'], $_POST['desc'], $_POST['IP'],
$_POST['date'], $_POST['status'], $_POST['tec']);
            $ticket->setStatus($_POST['etat']);
            echo "<p style='color: green;'>Un ticket d'urgence
".$niveauxUrgence[$ticket->getUrgence()]." a été modifié pour l'état
".$_POST['etat']."</p>";
            include('Vues/Ticket/myTickets.php');
        } // FIN DE LA SECTION 2
        else
        { // SECTION 3
            header('Location: index.php');
        }
        break; // FIN DE LA SECTION 3
```

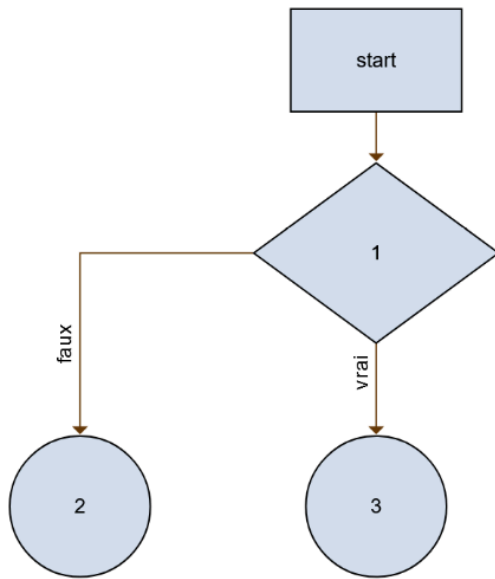|	$_POST	&_POST['etat']	user.role	résultat
C1	NOT NULL	empty	user	index.php
C2	NULL	not empty	technician	index.php
C3	NULL	empty	user	index.php
C4	NOT NULL	not empty	technician	myTickets.php
C5	NOT NULL	empty	technician	index.php

Chemin 1 : Start -> 1-> 2 -> fin
Chemin 2 : Start -> 1 -> 3 -> fin

case : modifierEtat

```php
    // SECTION 1
    if (isset($_POST['uid'], $_POST['urgence_level'],$_POST['date'],
$_POST['label_ID'], $_POST['status'], $_POST['desc'],
$_POST['concernee'], $_POST['IP']) &&
unserialize($_SESSION['user'])->getRole() == 'technician')
// FIN DE LA SECTION 1
    { // SECTION 2
        include('Vues/Ticket/formModifierEtat.php');
    } // FIN DE LA SECTION 2
    else
    { // SECTION 3
        header('Location: index.php');
    } // FIN DE LA SECTION 3
    break;
```

	$_POST	user.role	résultat
C1	NOT NULL	user	index.php
C2	NULL	technician	index.php
C3	NULL	user	index.php
C4	NOT NULL	technician	formModifierEtat.php

Chemin 1 : Start -> 1-> 2 -> fin
Chemin 2 : Start -> 1 -> 3 -> fin

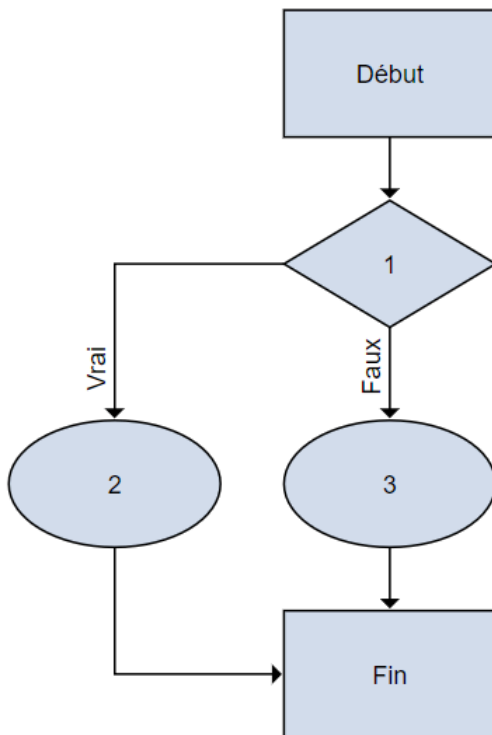## case : labels

```
case 'labels' :
      // SECTION 1
      if (isset($_SESSION['user']) &&
unserialize($_SESSION['user'])->getRole()=='webadmin')
      // FIN 1
       {
           include('Vues/Label/dashboardLabel.php'); // SECTION 2
       }
       else
```

```
    {
        header('Location: index.php'); // SECTION 3
    }
    break;
```
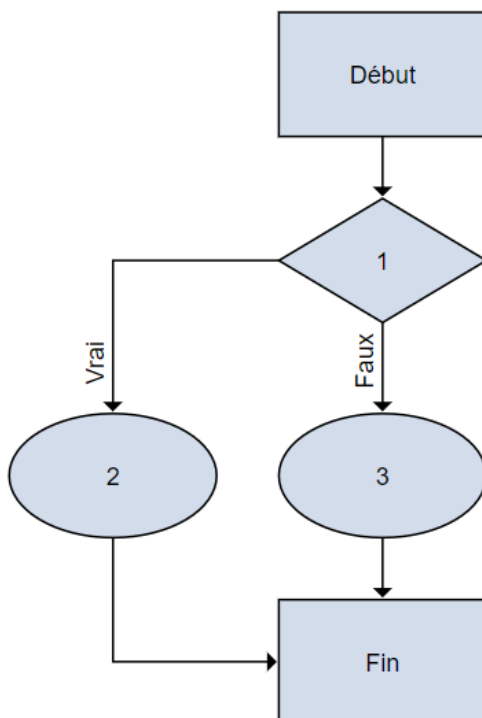

Chemin 1 : Début →1 → 2 → Fin
Chemin 2 : Début →1 → 3 → Fin

Chemins	$_SESSION['user']	user.rôle	Résultat
C1	NOT NULL	webadmin	dashboardLabel.php
C2	NULL	webadmin	index.php
C3	NOT NULL	technician	index.php
C4	NULL	technician	index.php
C5	NOT NULL	sysadmin	index.php
C6	NULL	sysadmin	index.php
C7	NOT NULL	user	index.php
C8	NULL	user	index.php

case : validerModifierLabel

```php
case 'validerModifierLabel' :
        // SECTION 1
        if (isset($_SESSION['user'], $_POST['name'], $_POST['label_ID'])
&& unserialize($_SESSION['user'])->getRole()=='webadmin')
        // FIn 1
        {
            // SECTION 2
            updateLabel($_POST['name'], $_POST['label_ID']);
            include('Vues/Label/dashboardLabel.php');
            echo "<p style='color:green'>Ce label a comme nouveau nom
".$_POST['name']." </p>";
            // FIN 2
        }
        else
        {
            header('Location: index.php');// SECTION 3
        }
        break;
```
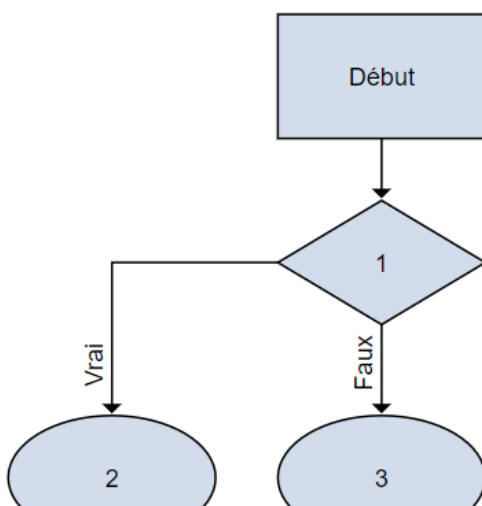

Chemin 1 : Début →1 → 2 → Fin

Chemins	$_SESSION['user']	$_POST['name']	$_POST['label_ID']	user.role	Résultat
C1	NOT NULL	NOT NULL	NOT NULL	webadmin	updateLabel()
C2	NULL	NOT NULL	NOT NULL	webadmin	index.php
C3	NOT NULL	NULL	NOT NULL	webadmin	index.php
C4	NOT NULL	NOT NULL	NULL	webadmin	index.php
C5	NULL	NULL	NULL	webadmin	index.php
C6	NOT NULL	NOT NULL	NOT NULL	user	index.php
C7	NULL	NULL	NULL	user	index.php

case : modifieLabel

```php
case 'modifierLabel':
        // SECTION 1
        if (isset($_SESSION['user'], $_POST['label_ID']) &&
unserialize($_SESSION['user'])->getRole()=='webadmin')
        // FIN 1
        {
            include("Vues/Label/formModifierLabel.php"); // SECTION 2
        }
        else
        {
            header('Location: index.php'); // SECTION 3
        }
        break;
```


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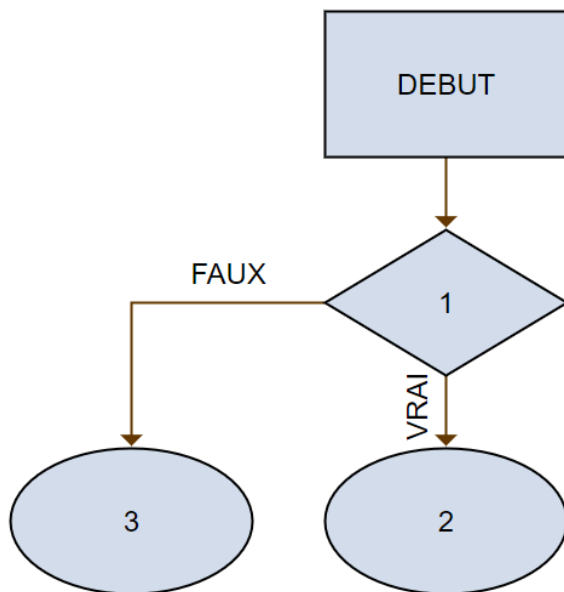| Chemins	$_SESSION['user']	$_POST['label_ID']	user.role	Résultat
C1	NOT NULL	NOT NULL	webadmin	formModifierLabel.php
C2	NOT NULL	NULL	webadmin	index.php
C3	NULL	NOT NULL	webadmin	index.php
C4	NULL	NULL	webadmin	index.php
C5	NOT NULL	NOT NULL	user	index.php
C6	NULL	NULL	user	index.php

case : archiverLabel

```php
case 'archiverLabel':
        // SECTION 1
        if (isset($_SESSION['user'], $_POST['label_ID']) &&
unserialize($_SESSION['user'])->getRole()=='webadmin')
// FIN DE LA SECTION 1
        {
            // SECTION 2
            archive($_POST['label_ID']);
            echo "<div class='messages'>
                    <p style='color:green'>Ce libellé a bien été
archivé</p>
                </div>";
            include('Vues/Label/dashboardLabel.php');
```

```php
        // FIN DE LA SECTION 2
    }
    else
    {
        // SECTION 3
        header('Location: index.php');
    }
    break;
```
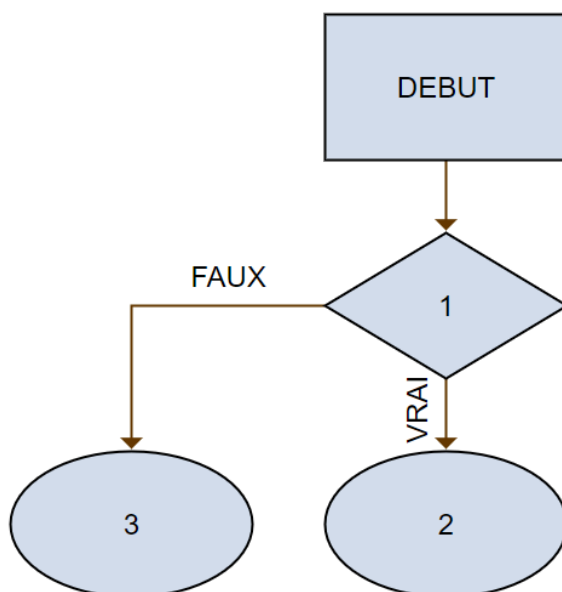

	$_SESSION	$_POST	getRole()	Résultat
C1	NULL	NULL	-	index.php
C2	NULL	NOT NULL	-	index.php
C3	NOT NULL	NULL	-	index.php
C4	NOT NULL	NOT NULL	!= 'webadmin'	index.php
C5	NOT NULL	NOT NULL	= 'webadmin'	archive()

Chemin 1 : Début →1 → 2 → Fin

Chemin 2 : Début →1 → 3 → Fin

case : validerAddLabel

```php
case 'validerAddLabel' :
// SECTION 1
        if (isset($_SESSION['user'], $_POST['name']) &&
unserialize($_SESSION['user'])->getRole()=='webadmin' &
!empty($_POST['name']))
// FIN DE LA SECTION 1
        {
            // SECTION 2
            $name = htmlspecialchars($_POST['name']);
            addLabel($name);
            echo "<div class='messages'>
                    <p style='color:green'>Le libellé ".$name." a bien
été créé</p>
                </div>";
            include("Vues/Label/dashboardLabel.php");
            //FIN DE LA SECTION 2
        }
        else
        {
            // SECTION 3
            header('Location: index.php');
        }
        break;
```

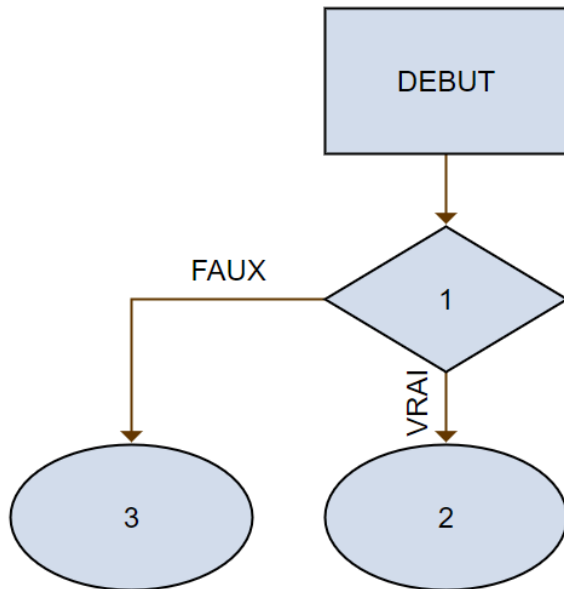|	$_SESSION	$_POST	getRole()	Résultat
C1	NULL	NULL	-	index.php
C2	NULL	NOT NULL	-	index.php
C3	NOT NULL	NULL	-	index.php
C4	NOT NULL	NOT NULL	!= 'webadmin'	index.php
C5	NOT NULL	NOT NULL	= 'webadmin'	archive()

Chemin 1 : Début →1 → 2 → Fin

Chemin 2 : Début →1 → 3 → Fin

case : addLabel

```php
case 'addLabel' :
// SECTION 1
        if (isset($_SESSION['user']) &&
unserialize($_SESSION['user'])->getRole()=='webadmin')
// FIN DE LA SECTION 1
        {
            // SECTION 2
            include('Vues/Label/formAjouterLabel.php');
        }
        else
        {
            // SECTION 3
            header('Location: index.php');
        }
        break;
```

	$_SESSION	getRole()	Résultat
C1	NULL	-	index.php
C2	NOT NULL	!= 'webadmin'	index.php
C3	NOT NULL	= 'webadmin'	formAjouterLabel.php

Chemin 1 : Début →1 → 2 → Fin
Chemin 2 : Début →1 → 3 → Fin

case : error

```php
case 'error' :
// SECTION 1
        if (isset($_SESSION['user']))
// FIN DE LA SECTION 1
        {
            // SECTION 2
            include('Vues/Ticket/formTicket.php');
            echo "<div class='messages'>
                    <p style='color:red;'>Une erreur est survenue,
vérifiez bien votre saisie !</p>
                </div>";
            // FIN DE LA SECTION 2
        }
```
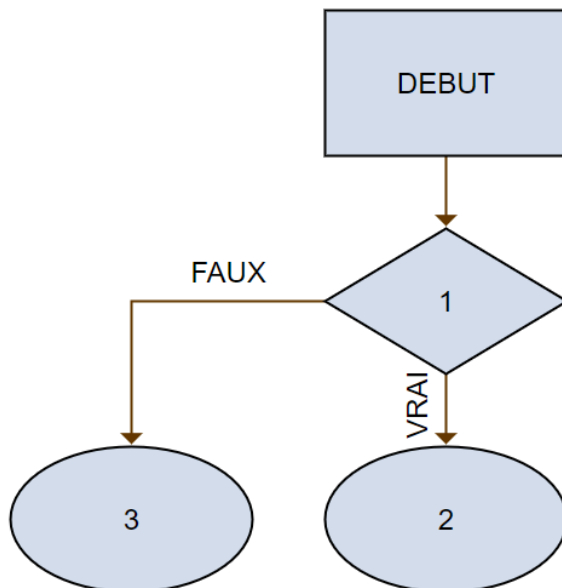
```php
        else
        {
            // SECTION 3
            header('Location: index.php');
        }
        break;
```


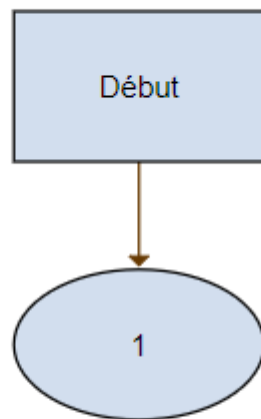|	$_SESSION	Résultat
C1	NULL	index.php
C2	NOT NULL	formTicket.php

Chemin 1 : Début →1 → 2 → Fin
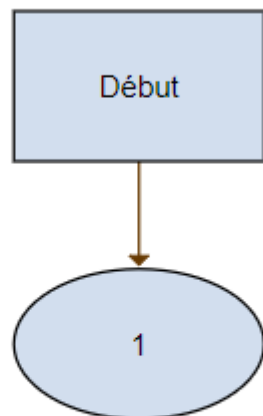Chemin 2 : Début →1 → 3 → Fin

profileController

case : voirProfile

```php
include('Vues/Profile/profile.php'); // SECTION 1
```


case : deconnexion

```php
session_destroy(); // SECTION 1
header("Location: index.php"); // FIN SECTION 1
```


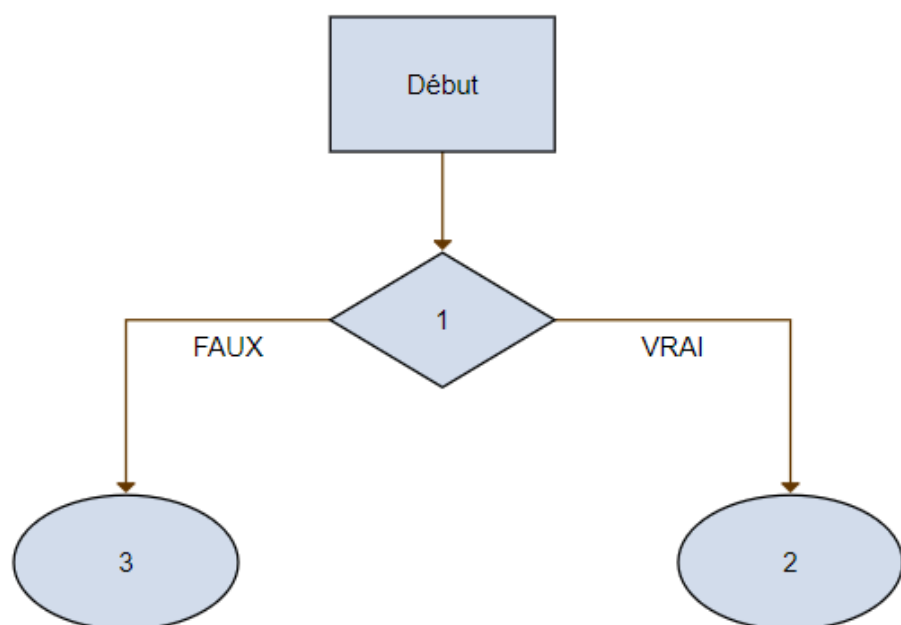## case : formPwd

```php
if (isset($_SESSION['user'])) // SECTION 1
        {
            include('Vues/Profile/formPwd.php'); // SECTION 2
        }
        else
        {
            header('Location: index.php'); // SECTION 3
```
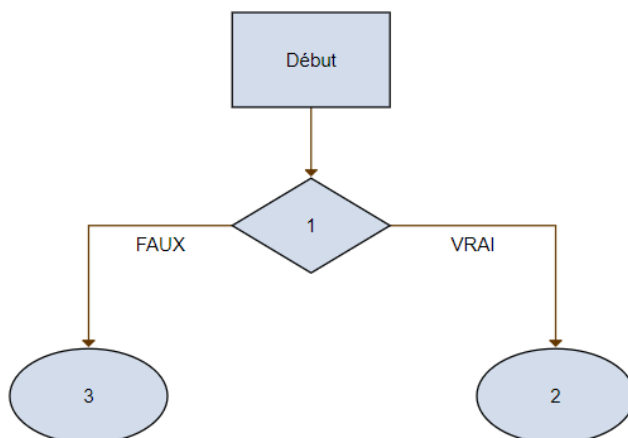
```
        }
```


case : validerFormPwd

```php
if (isset($_SESSION['user'], $_POST['pwd1'], $_POST['pwd2']) &&
!(empty($_POST['pwd1']) && empty($_POST['pwd2']))) // SECTION 1
        {
            echo "<h1>Page en construction</h1>"; // SECTION 2
        }
        else
        {
            header('Location: index.php'); // SECTION 3
        }
```


Test des différents fonctions :

```php
function list_dir($path): array
{
   if (scandir($path)) // SECTION 1
   {
      $arr = scandir($path); // SECTION 2
      return array_diff($arr, array('.', '..')); // SECTION 3
   }
   else
   {
      return array(); // SECTION 4
   }
}
```
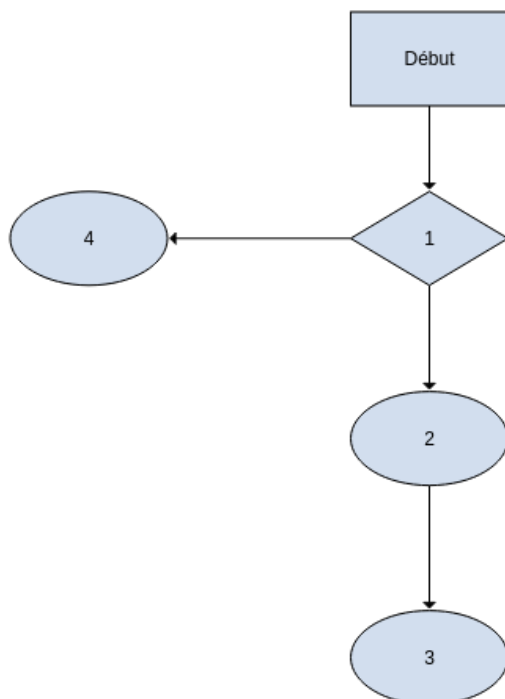

	$path	Résultat
C1	n'existe pas	array()
C2	existe	contenu du dossier sous forme de liste