# Assignment on LAMP

1. Install Oracle VirtualBox
2. Install Vagrant
3. Create a CentOS guest Machine

mkdir -p ~/vagrant/centos7

 cd ~/vagrant/centos7

vagrant init centos/7; vagrant up --provider virtualbox

Above Step will take a lot of time as it will download files from internet

vagrant status

vagrant ssh

4. Install Apache on that

sudo su

yum install httpd httpd-devel

service httpd start

**in VagrantFile Uncomment   config.vm.network "forwarded_port", guest: 80, host: 8080**

vagrant reload


5. Install MySQL

yum install mysql mysql-devel wget

wget http://repo.mysql.com/mysql-community-release-el7-5.noarch.rpm

sudo rpm -ivh mysql-community-release-el7-5.noarch.rpm

yum update

sudo yum install mysql-server

sudo systemctl start mysqld

mysql

mysql> USE mysql;

mysql> UPDATE user SET Password=PASSWORD('newpassword') WHERE user='root';

mysql> FLUSH PRIVILEGES;

mysql>quit;

mysql -u root -p

Enter Password: newpassword


6. Create Database tables

mysql> create database test;


mysql> use test;

mysql> CREATE TABLE IF NOT EXISTS `user` (
    ->  `id` int(11) NOT NULL AUTO_INCREMENT,
    ->  `username` varchar(255) NOT NULL,
    ->  `email` varchar(255) NOT NULL,

```
    ->  `password` varchar(255) NOT NULL,
    ->  PRIMARY KEY (`id`),
    ->  UNIQUE KEY `username` (`username`)
    -> );

mysql> select * from user;
Empty set (0.00 sec)

mysql>quit;
```

7. Install PHP

```
yum install php php-mysql php-common php-gd php-mbstring php-mcrypt php-devel php-xml
service httpd restart
chkconfig httpd on
chkconfig mysqld on
```

8. Create following files in /var/www/html
9. Register.php with below content

```
    <div class="container">
  <form class="form-signin" method="POST">
    <h2 class="form-signin-heading">Please Register</h2>
    <div class="input-group">
       <span class="input-group-addon" id="basic-addon1">@</span>
       <input type="text" name="username" class="form-control" placeholder="Username" required>
       </div>
    <label for="inputEmail" class="sr-only">Email address</label>
    <input type="email" name="email" id="inputEmail" class="form-control" placeholder="Email address" required autofocus>
    <label for="inputPassword" class="sr-only">Password</label>
    <input type="password" name="password" id="inputPassword" class="form-control" placeholder="Password" required>
    <button class="btn btn-lg btn-primary btn-block" type="submit">Register</button>
    <a class="btn btn-lg btn-primary btn-block" href="login.php">Login</a>
  </form>
</div>
```

10. connect.php with below content

```
<?php
$connection = mysqli_connect('localhost', 'root', 'newpassword');
if (!$connection){
   die("Database Connection Failed" . mysqli_error($connection));
}
$select_db = mysqli_select_db($connection, 'test');
if (!$select_db){
   die("Database Selection Failed" . mysqli_error($connection));
}
?>
```

11. Register.php  with below content

```php
<?php
        require('connect.php');
    // If the values are posted, insert them into the database.
    if (isset($_POST['username']) && isset($_POST['password'])){
        $username = $_POST['username'];
            $email = $_POST['email'];
        $password = $_POST['password'];

        $query = "INSERT INTO `user` (username, password, email) VALUES ('$username', '$password', '$email')";
        $result = mysqli_query($connection, $query);
        if($result){
            $smsg = "User Created Successfully.";
        }else{
            $fmsg ="User Registration Failed";
        }
    }
    ?>
<html>
<head>
        <title>User Registeration Using PHP & MySQL</title>

<!-- Latest compiled and minified CSS -->
<link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css" >

<!-- Optional theme -->
<link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap-theme.min.css" >

<link rel="stylesheet" href="styles.css" >

<!-- Latest compiled and minified JavaScript -->
<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script>
</head>
<body>

<div class="container">
    <form class="form-signin" method="POST">

    <?php if(isset($smsg)){ ?><div class="alert alert-success" role="alert"> <?php echo $smsg; ?> </div><?php } ?>
    <?php if(isset($fmsg)){ ?><div class="alert alert-danger" role="alert"> <?php echo $fmsg; ?> </div><?php } ?>
        <h2 class="form-signin-heading">Please Register</h2>
```

```
    <div class="input-group">
        <span class="input-group-addon" id="basic-addon1">@</span>
        <input type="text" name="username" class="form-control" placeholder="Username"
required>
    </div>
    <label for="inputEmail" class="sr-only">Email address</label>
    <input type="email" name="email" id="inputEmail" class="form-control"
placeholder="Email address" required autofocus>
    <label for="inputPassword" class="sr-only">Password</label>
    <input type="password" name="password" id="inputPassword" class="form-control"
placeholder="Password" required>
    <div class="checkbox">
      <label>
        <input type="checkbox" value="remember-me"> Remember me
      </label>
    </div>
    <button class="btn btn-lg btn-primary btn-block" type="submit">Register</button>
    <a class="btn btn-lg btn-primary btn-block" href="login.php">Login</a>
    </form>
</div>

</body>

</html>
```
12. Try registering with 3 Users at <http://localhost:8080/Register.php>
13. Automate using IDE for Registration of User 4

You will be using Linux commands while doing this exercise.

1. **Please submit last 10 lines of /var/log/httpd/error_log and /var/log/httpd/access_log**
2. **Screenshot of <http://localhost:8080/Register.php> showing "User Created Successfully" message in Green**
3. **Select \* from user; at mysql prompt**
4. **TestCase saved in Selenium IDE**