

## LAMPIRAN

### a. Sourcode Halaman Login

```
<body class="bg-primary" OnLoad="document.login.username.focus();">
  <div id="layoutAuthentication">
    <div id="layoutAuthentication_content">
      <main>
        <div class="container">
          <div class="row justify-content-center">
            <div class="col-lg-5">
              <div class="card shadow-lg border-0 rounded-lg mt-5">
                <div class="card-header">
                  <h3 class="text-center font-weight-light my-4">Login</h3>
                </div>
                <div class="card-body">
                  <form name="login" action="cek_login.php"
method="POST" onSubmit="return validasi(this)">
                    <div class="form-floating mb-3">
                      <input type="text" class="form-control"
name=" id_user" autofocus placeholder="username" required>
                      <label>Username</label>
                    </div>
                    <div class="form-floating mb-3">
                      <input class="form-control" name="password"
type="password" placeholder="Password" />
                      <label for="inputPassword">Password</label>
                    </div>
                </div>
              </div>
            </div>
          </div>
        </div>
      </main>
    </div>
  </div>
</body>
```

```
<div class="d-flex align-items-center justify-
content-between mt-4 mb-0 signinButton">
    <a class="small" href="password.html">Forgot
Password?</a>
    <input class="btn btn-primary login"
type="submit" name="submit" id="submit" value="Login" />
</div>
</form>
</div>
<div class="card-footer text-center py-3">
    <div class="small"><a href="registrasi.php">Need
an account? Sign up!</a></div>
</div>
</div>
</div>
</div>
</div>
</div>
</div>
</main>
</div>
</div>
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/js/bootstrap.bundle.
min.js" crossorigin="anonymous"></script>
    <script src="js/scripts.js"></script>
</body>
```

## b. Sourcode Halaman Register

```

<body class="bg-primary" OnLoad="document.login.username.focus();">
  <div id="layoutAuthentication">
    <div id="layoutAuthentication_content">
      <main>
        <div class="container">
          <div class="row justify-content-center">
            <div class="col-lg-7">
              <div class="card shadow-lg border-0 rounded-lg mt-5">
                <div class="card-header">
                  <h3 class="text-center font-weight-light my-4">Create
Account</h3>
                </div>
                <div class="card-body">
                  <form name="login" action="p_registrasi.php" method="POST"
onSubmit="return validasi(this)">
                    <div class="row mb-3">
                      <div class="col-md-6">
                        <div class="form-floating mb-3 mb-md-0">
                          <input class="form-control" name="username" autofocus
placeholder="username" required />
                          <label for="inputUsername">Username</label>
                        </div>
                      </div>
                      <div class="col-md-6">
                        <div class="form-floating">
                          <input class="form-control" type="password"
name="password" placeholder="password" required />

```

```

        <label for="inputpassword">Password</label>
    </div>
</div>
<div class="form-floating mb-3">
    <input class="form-control" name="nama_lengkap"
placeholder="nama lengkap" required />
    <label for="inputnamalengkap">Nama Lengkap</label>
</div>
<div class="mt-4 mb-0">
    <div class="d-grid"><input class="btn btn-primary btn-
block" type="submit" class="login" name="submit" id="submit"
value="Registrasi" /></div>
    </div>
</form>
</div>
<div class="card-footer text-center py-3">
    <div class="small"><a href="home">Have an account? Go to
login</a></div>
    </div>
</div>
</div>
</div>
</main>
</div>
</div>

```

```

<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/js/bootstrap.bundle.
min.js" crossorigin="anonymous"></script>

<script src="js/scripts.js"></script>

</body>

```

### c. Sourcode Halaman Home

```

<!DOCTYPE html>
<html lang="en">

<head>
<meta charset="utf-8" />
<meta http-equiv="X-UA-Compatible" content="IE=edge" />
<meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-
fit=no" />
<meta name="description" content="" />
<meta name="author" content="" />
<title>UD SUMBER BANGUNAN</title>
<link href="../css/styles.css" rel="stylesheet" />
<script src="https://use.fontawesome.com/releases/v6.3.0/js/all.js"
crossorigin="anonymous"></script>
</head>

<body>
<div class="container-fluid px-4">
<h4 class="mt-4">Apa Itu Data Mining</h4>
<p>Data Mining Adalah suatu metode pengolahan data menemukan
pola yang tersembunyi dari suatu data </p><br>
<h4 class="mt-4">Apa Itu Clustering</h4>
<p>Clustering adalah salah satu teknik data mining, algoritme cluster
yang digunakan dalam pengelompokkan sejumlah data ke dalam kelompok
- kelompok data tertentu.</P>
</body>

</html>

```

## d. Sourcode Halaman Input Data

```

<form action="semua-data.html" method="POST">
    Input Objek:
    <TABLE border="2" cellpadding="5px" cellspacing="0"
class="table">
        <thead>
            <tr bgcolor="#609966" style="color:#fff;">
                <Th>
                    <center>Data No</center>
                </Th>
                <Th>
                    <center>Data Penjualan</center>
                </Th>
                <Th>
                    <center>Aksi</center>
                </Th>
            </tr>
            <TR>
                <form action="semua-data.html" method="POST">
                    <TD>
                        <center><INPUT placeholder="Ex : P001"
type="text" size="5" name="namaobjek" required /></center>
                    </TD>
                    <TD><INPUT placeholder="Ex : 3,5,2,1,1"
type="text" size="30" name="objek" required /> </TD>
                    <TD><input class="button-tambahdata btn btn-
primary btn-sm" type='submit' name='submit' value='Tambahkan'>
                </form>
            </TD>
        </TR>
    </thead>
</TABLE>
</form>

```

## e. Sourcode Halaman clustering

```

<form action="hasil.html" target="_BLANK" method="POST">
    <?php

```

```

        $querye = $koneksi->query("SELECT * FROM objek ORDER
BY id_objek ASC");
        while ($r = mysqli_fetch_array($querye)) {
            echo "<INPUT type='hidden' size='40' name='objek[]'
value='{$r[data]}'/>";
        }
    ?>
<?php
    $queryye = $koneksi->query("SELECT * FROM centroid
ORDER BY id_centroid DESC");
    while ($r = mysqli_fetch_array($queryye)) {
        echo "<INPUT type='hidden' size='38' name='cluster[]'
value='{$r[data_centroid]}'/>";
    }
    ?>
    <div style="float:left;width:950px;margin-top:30px;text-
align:center; margin-bottom:20px;"></div>
    </form>
    </div>
</div>
<div class="col">
    <!-- data -->
    <TABLE class="table" width="470px" border="2"
cellpadding="5px" cellspacing="0" id="data">
    <tbody>
        <TR bgcolor="#609966" style="color:#fff;">
            <Th>
                <center>Data No</center>

```

```

        </Th>
        <Th>
            <center>Data Penjualan</center>
        </Th>
        <Th>
            <center>Aksi</center>
        </Th>
    </TR>
</tbody>
<?php
    $query = $koneksi->query("SELECT * FROM objek ORDER
BY id_objek ASC");
    echo "<script>";
    echo "let data = " . json_encode(mysqli_fetch_all($query));
    echo "</script>";
    $data = $koneksi->query("SELECT * FROM objek ORDER BY
id_objek ASC");
    $no = $no + 1;
    while ($r = mysqli_fetch_array($data)) {
        echo "<TR>
            <TD><center>$r[nama_objek]</TD>
            <TD><center>$r[data]</TD>
            <td><center><button class='btn btn-danger' value='Hapus
Data' onclick=\"if(confirm('Apakah anda yakin ingin menghapus data
ini?')){ location.href='data.php?idd=$r[id_objek] }';\"><i class='bi bi-
trash'></i></button></center></td>
            </TR>";
        $no++;
    }
}

```



```
} ?>
```

f. Sourcode Halaman Hasil *Clustering*

```
public function setClusterObjek()
{
    $all_nilai = [];
    $akhir = [];
    $itr = 1;
    $run = true;

    while ($run) {
        $body = [];
        for ($j = 0; $j < count($this->centroidCluster); $j++) {
            // $header[] = "Cluster " . ($j + 1);
            $body[$j] = [];
        }

        for ($i = 0; $i < count($this->objek); $i++) {
            $this->objek[$i]->setCluster($this->centroidCluster);

            for ($j = 0; $j < count($this->centroidCluster); $j++) {
                if ($j == $this->objek[$i]->getCluster())
                    $body[$j][] = $this->objek[$i]->nama;
            }
        }

        $all_nilai[] = ["body" => $body];
        $cek = TRUE;
        for ($i = 0; $i < count($this->cekObjCluster); $i++) {
            if ($this->cekObjCluster[$i] != $this->objek[$i]-
>getCluster()) {
                $cek = FALSE;
                break;
            }
        }
        if (!(($cek) && ($itr < 20)) {
            for ($i = 0; $i < count($this->cekObjCluster); $i++) {
                $this->cekObjCluster[$i] = $this->objek[$i]-
>getCluster();
            }
            $this->setCentroidCluster();
        }
    }
}
```

```
        $itr += 1;
    } else {

        for ($i = 0; $i < count($this->centroidCluster); $i++) {

            $akhir[$i + 1] = [];
            for ($j = 0; $j < count($this->centroidCluster[$i]); $j++)
            {
                $akhir[$i + 1][$j] = $this->centroidCluster[$i][$j];
            }
        }
        $run = false;
    }
}
```