LAMPIRAN

A. Service

1. *Service/* index.php

```php
<?php
if (PHP_SAPI == 'cli-server') {
    $url  = parse_url($_SERVER['REQUEST_URI']);
    $file = __DIR__ . $url['path'];
    if (is_file($file)) {
        return false;
    }
}
require __DIR__ . '/../service/vendor/autoload.php';
require __DIR__ . '/../service/config.php';

session_start();

$app = new \Slim\App(['settings' => ['displayErrorDetails' =>
true]]);

$app->get('/person/get/id/{id}/pass/{pass}/role/{role}', function
($request){
    $id = $request->getAttribute('id');
    $role = $request->getAttribute('role');
    $pass = $request->getAttribute('pass');
    try{
        $db  = getConnetion();

        $query = "SELECT * FROM `person` WHERE ID='$id' AND ROLE
='$role'";
        $result = mysqli_query($db,$query) or die ($db->error);

        if(mysqli_num_rows($result)>0){
            $query = "SELECT * FROM `person` WHERE ID='$id' and
PASS ='$pass' AND ROLE ='$role'";
            $result = mysqli_query($db,$query)or die($db->error);
            if(mysqli_num_rows($result)>0){
                echo json_encode($arr=array("result"=>1));
            }else{
                echo json_encode($arr=array("result"=>-1));
            }
        }else{
            echo json_encode($arr = array("result"=>0));
        }
    }catch (PDOException $e){
        echo '{"error":{"text":'. $e->getMessage() .'}}';
    }
});
$app->get('/person/get/id/{id}/role/{role}', function ($request){
    $id = $request->getAttribute('id');
    $role = $request->getAttribute('role');
    try{
        $db = getConnetion();
        $query = "SELECT * FROM `person` WHERE ID='$id' AND ROLE
='$role'";
```

```php
        $result = mysqli_query($db,$query)or die($db->error);
                if(mysqli_num_rows($result)>0){

while ($row = mysqli_fetch_assoc($result)){
                echo json_encode($row);
            }
        }
    }catch (PDOException $e){
        echo '{"error":{"text":'. $e->getMessage() .'}}';
    }
});

$app->get('/assessment/get/instruktur_id/{id}',function
($request){
    $id = $request->getAttribute('id');

    try{
        $db = getConnetion();
        $query = "SELECT * FROM assessment WHERE
ID_INSTRUKTUR='$id'";
        $result = mysqli_query($db,$query)or die($db->error);
        $data = array();
        if (mysqli_num_rows($result)>0){
            while ($row = mysqli_fetch_assoc($result)){
                $data[] = $row;
            }
            echo json_encode(array('ASSESSMENT'=>$data));
        }
    }catch (PDOException $e){
        echo '{"error":{"text":'. $e->getMessage() .'}}';
    }
});

$app->post('/person/add',function($request){
    $person = json_decode($request->getBody());
    try{
        $db = getConnetion();

        $query = " SELECT ID FROM person WHERE ID='$person->ID'";
        $result = mysqli_query($db,$query);
        if(mysqli_num_rows($result)==0){
            $query = "INSERT INTO `person` (`ID`, `NAMA`, `PASS`,
`EMAIL`, `NOMOR_INDUK`, `ROLE`)
            VALUES ('$person->ID', '$person->NAMA', '$person-
>PASS', '$person->EMAIL', '$person->NOMOR_INDUK', '$person-
>ROLE')";
            mysqli_query($db,$query)or die ($db->error);
            echo json_encode($arr=array("result"=>1));
        }else{

            echo json_encode($arr=array("result"=>-1));
        }
    }catch (PDOException $e){
        echo json_encode($arr=array("result"=>0));
    }

});
$app->post('/person/update', function ($request){
    $person = json_decode($request->getBody());
    try{
$db = getConnetion();
$query = "UPDATE `person` SET NAMA='$person->NAMA',
```

```php
EMAIL='$person->EMAIL'
, NOMOR_INDUK='$person->NOMOR_INDUK' WHERE ID='$person->ID'";
        mysqli_query($db,$query)or die ($db->error);
        echo json_encode($arr=array("result"=>1));
    }catch (PDOException $e){
        echo json_encode($arr=array("result"=>0));
    }
});

$app-
>post('/person/update_password/id/{id}/pass/{pass}',function($requ
est){
    $id = $request->getAttribute('id');
    $pass = $request->getAttribute('pass');

    try{
        $db = getConnetion();
        $query = "UPDATE `person` SET PASS ='$pass' WHERE
ID='$id'";
        mysqli_query($db,$query)or die ($db->error);
        echo json_encode($arr=array("result"=>1));
    }catch (PDOException $e){
        echo "$e";
        echo json_encode($arr=array("result"=>0));
    }
});

$app->post('/assessment/add', function ($request){
    $person = json_decode($request->getBody());
    $db = getConnetion();

    $enroll_code = uniqid("ENR-");;
    $id = uniqid("ASSMNT-");

    $arrId = getAllAssesstID($db);
    $arrEnr = getAllEnrollCodeByInstId($person->ID_INSTRUKTUR,
$db);


    for($i = 0; $i<count($arrId); ++$i){
        if ($id == $arrId[$i]['ID']){
            $id = uniqid("ASSMNT-");
            $i = 0;
        }
    }
for($i = 0; $i<count($arrEnr); ++$i){
        if ($enroll_code == $arrEnr[$i]['ENROLLMENT_CODE']){
            $enroll_code = uniqid("ENR-");
            $i = 0;
        }
    }

    try{
        $query = "INSERT INTO `assessment` (`ID`,
`NAMA_ASSESSMENT`, `AKTIF_SAMPAI_DENGAN`,`DURASI_PENGERJAAN`,
`JUMLAH_SOAL`, `MATA_KULIAH`, `ENROLLMENT_CODE`, `ID_INSTRUKTUR`,
`ID_BATCH_SOAL_HEADER`)
        VALUES ('$id','$person->NAMA_ASSESSMENT', '$person-
>AKTIF_SAMPAI_DENGAN', $person->DURASI_PENGERJAAN, $person-
>JUMLAH_SOAL,'$person->MATA_KULIAH','$enroll_code','$person-
>ID_INSTRUKTUR','$person->ID_BATCH_SOAL_HEADER')";
```

```php
        mysqli_query($db,$query)or die($db->error);

        echo json_encode($arr=array("result"=>1));
    }catch (PDOException $e){
        echo json_encode($arr=array("result"=>0));
    }
});

function getAllAssesstID($db){
    $query = "SELECT ID FROM `assessment`";
    $result = mysqli_query($db,$query) or die ($db->error);
    $data = array();
    if(mysqli_num_rows($result)>0) {
        while ($arr = mysqli_fetch_assoc($result)) {
            $data[] = $arr;
        }
    }
        return $data;
}

function getAllEnrollCodeByInstId($id,$db){
    $query = "SELECT ENROLLMENT_CODE FROM `assessment` WHERE
ID_INSTRUKTUR='$id'";
    $result = mysqli_query($db,$query) or die ($db->error);
    $data = array();
    if(mysqli_num_rows($result)>0) {
        while ($arr = mysqli_fetch_assoc($result)) {
            $data[] = $arr;
        }
    }
    return $data;
}

$app->get("/batch_soal/get/id_instruktur/{id}",function
($request){
    $id = $request->getAttribute('id');
    $data = array();
    try{
        $db = getConnetion();
        $query = "SELECT * FROM `batch_soal_header` WHERE
ID_INSTRUKTUR='$id'";
        $result = mysqli_query($db,$query)or die($db->error);
        if(mysqli_num_rows($result)>0){
            while ($row = mysqli_fetch_assoc($result)){
                $data[] = $row;
            }
            echo json_encode(array('BATCH_SOAL_HEADER'=>$data));
        }
    }catch (PDOException $e){
        echo '{"error":{"text":'. $e->getMessage() .'}}';
    }
});
$app->post("/batch_soal/add", function ($request){
    $result = json_decode($request->getBody());

    $listBatchSoalDetail = $result->BATCH_SOAL_DETAIL-
>BATCH_SOAL_DETAIL;
    $jumlahSoal = count($listBatchSoalDetail);

    $query = "INSERT INTO `batch_soal_header`(`NAMA_BATCH_SOAL`,
`JUMLAH_SOAL`, `ID_INSTRUKTUR`)VALUES ('$result->NAMA_BATCH_SOAL'
```

```php
,$jumlahSoal,'$result->ID_INSTRUKTUR')";
    try{
        $db = getConnetion();
        mysqli_query($db,$query)or die($db->error);
        $last_id = mysqli_insert_id($db);

        try{
            foreach ($listBatchSoalDetail as $batchSoalDetail){
                $query = "INSERT INTO `batch_soal_detail`(`SOAL`,
`A`, `B`, `C`, `D`, `JAWABAN`, `ID_HEADER`) VALUES
                    ('$batchSoalDetail->SOAL','$batchSoalDetail-
>A','$batchSoalDetail->B','$batchSoalDetail->C','$batchSoalDetail-
>D',
                    '$batchSoalDetail->JAWABAN',$last_id)";
                mysqli_query($db,$query)or die($db->error);
            }
            echo json_encode($arr=array("result"=>1));
        }catch (PDOException $e){
            echo json_encode($arr=array("result"=>-1));
        }
    }catch (PDOException $e){
        echo json_encode($arr=array("result"=>0));
    }
});

$app->get("/assessment/get/id/{id}/id_siswa/{id_siswa}", function
($request){
    $id = $request->getAttribute("id");
    $id_siswa = $request->getAttribute("id_siswa");
    $query = "SELECT `AKTIF_SAMPAI_DENGAN` FROM `assessment` WHERE
`ID` = '$id'";

    try{
        $db = getConnection();
        $result = mysqli_query($db,$query)or die($db->error);
        if(mysqli_num_rows($result)>0){
            $date = "";
            while($row = mysqli_fetch_assoc($result)){
                $date = $row["AKTIF_SAMPAI_DENGAN"];
            }
            $aktif_sd = new DateTime($date);
            $date_now = new DateTime();
            if($date_now <= $aktif_sd){
                if(isNotAvailaible($id,$id_siswa,$db)){
                    echo json_encode($arr=array("result"=>1));
                }else{
                    echo json_encode($arr=array("result"=>-2));
                }
            }else{
                echo json_encode($arr=array("result"=>-1));
            }
        }else{
            echo json_encode($arr=array("result"=>0));
        }
    }catch (PDOException $e){
        echo json_encode($arr=array("result"=>-3));
    }
});

$app->get("/assessment/get/assmnt_id/{id}", function ($request){
    $id = $request->getAttribute("id");
```

```php
    $query = "SELECT * FROM `assessment` WHERE `ID` = '$id'";

    try{
        $db = getConnetion();
        $result = mysqli_query($db,$query)or die($db->error);
        if(mysqli_num_rows($result)>0){
            while($row = mysqli_fetch_assoc($result)){
                echo json_encode($row);
            }
        }
    }catch (PDOException $e){
        echo json_encode($arr=array("result"=>-1));
    }
});
$app-
>get("/batchsoaldetail/get/id_batchsoal/{id}/assmnt_id/{asssmnt_id
}", function ($request){
    $db = getConnetion();
    $id = $request->getAttribute("id");
    $idAssmnt = $request->getAttribute("asssmnt_id");

    $query = "SELECT JUMLAH_SOAL FROM assessment WHERE
ID='$idAssmnt'";
    try{
        $result = mysqli_query($db,$query)or die($db->error);
        if(mysqli_num_rows($result)>0){
            $row = mysqli_fetch_array($result);
            $jml_soal = $row['JUMLAH_SOAL'];
            $query = "SELECT * FROM `batch_soal_detail` WHERE
`ID_HEADER` = $id ORDER BY RAND() LIMIT $jml_soal";
            $data = array();
            try{
                $result = mysqli_query($db,$query)or die($db-
>error);
                if(mysqli_num_rows($result)>0){
                    while($row = mysqli_fetch_assoc($result)){
                        $data[] = $row;
                    }
                    echo
json_encode(array('BATCH_SOAL_DETAIL'=>$data));
                }
            }catch (PDOException $e){
                echo json_encode($arr=array("result"=>-1));
            }
        }

    }catch (PDOException $e){
        echo json_encode($arr=array("result"=>-1));
    }
});

$app->get("/batchsoaldetail/get_all/id_batchsoal/{id}", function
($request){
    $id = $request->getAttribute("id");
    $query = "SELECT * FROM `batch_soal_detail` WHERE `ID_HEADER`
= $id";
    $data = array();
    try{
        $db = getConnetion();
        $result = mysqli_query($db,$query)or die($db->error);
        if(mysqli_num_rows($result)>0){
            while($row = mysqli_fetch_assoc($result)){
```

```php
                $data[] = $row;
            }
            echo json_encode(array('BATCH_SOAL_DETAIL'=>$data));
        }
    }catch (PDOException $e){
        echo json_encode($arr=array("result"=>-1));
    }
});

$app->post('/nilai/add',function($request) {
    $nilai = json_decode($request->getBody());
    try {
        $db = getConnetion();
        $query = "INSERT INTO `event_assessment` (`ID_ASSESSMENT`,
`ID_SISWA`, `SKOR`)
        VALUES ('$nilai->ID_ASSESSMENT', '$nilai->ID_SISWA',
'$nilai->SKOR')";
        mysqli_query($db, $query);

        echo json_encode($arr = array("result" => 1));
    } catch (PDOException $e) {
        echo json_encode($arr = array("result" => 0));
    }
});

$app->get("/nilai/get/id_siswa/{id}", function ($request){
    $id = $request->getAttribute("id");
    $query = "SELECT person.NAMA, person.NOMOR_INDUK,
assessment.NAMA_ASSESSMENT, event_assessment.SKOR,
            event_assessment.ID_ASSESSMENT,
assessment.TANGGAL_MULAI
            FROM event_assessment
            JOIN person ON event_assessment.ID_SISWA =
person.ID
            JOIN assessment ON event_assessment.ID_ASSESSMENT
= assessment.ID
            WHERE event_assessment.ID_SISWA = '$id'";
    $data = array();
    try{
        $db = getConnetion();
        $result = mysqli_query($db,$query) or die($db->error);
        if(mysqli_num_rows($result)>0){
            while($row = mysqli_fetch_assoc($result)){
                $data[] = $row;
            }
            echo json_encode(array('NILAI_SISWA'=>$data));
        }
    }catch (PDOException $e){
        echo json_encode($arr=array("result"=>-1));
    }
});

$app->get("/nilai/get/id_assmnt/{id}", function ($request){
    $id = $request->getAttribute("id");
    $query = "SELECT person.NAMA, person.NOMOR_INDUK,
assessment.NAMA_ASSESSMENT, event_assessment.SKOR
            FROM event_assessment
            JOIN person ON event_assessment.ID_SISWA =
person.ID
            JOIN assessment ON event_assessment.ID_ASSESSMENT
= assessment.ID
            WHERE event_assessment.ID_ASSESSMENT = '$id'";
```

```php
    $data = array();
    try{
        $db = getConnetion();
        $result = mysqli_query($db,$query)or die($db->error);
        if(mysqli_num_rows($result)>0){
            while($row = mysqli_fetch_assoc($result)){
                $data[] = $row;
            }
            echo json_encode(array('NILAI_SISWA'=>$data));
        }
    }catch (PDOException $e){
        echo json_encode($arr=array("result"=>-1));
    }
});
$app->post('/batchsoaldetail/put',function($request) {
    $batchDetail = json_decode($request->getBody());
    try {
        $db = getConnetion();
        $query = "UPDATE `batch_soal_detail` SET
soal='$batchDetail->SOAL', A='$batchDetail->A',
                  B='$batchDetail->B', C='$batchDetail->C',
D='$batchDetail->D',JAWABAN='$batchDetail->JAWABAN',
                  ID_HEADER=$batchDetail->ID_HEADER
                  WHERE ID=$batchDetail->ID";
        mysqli_query($db, $query);

        echo json_encode($arr = array("result" => 1));
    } catch (PDOException $e) {
        echo json_encode($arr = array("result" => 0));
    }
});
$app->post('/batchsoaldetail/delete/id/{id}',function($request) {
    $id = $request->getAttribute("id");
    try {
        $db = getConnetion();
        $query = "DELETE FROM `batch_soal_detail`
                  WHERE ID=$id";
        mysqli_query($db, $query)or die($db->error);

        echo json_encode($arr = array("result" => 1));
    } catch (PDOException $e) {
        echo json_encode($arr = array("result" => 0));
    }
});
$app->get("/batchsoal/jumlah_soal/id/{id}", function ($request){
    $id = $request->getAttribute("id");
    $query = "SELECT JUMLAH_SOAL FROM batch_soal_header WHERE
ID=$id";
    try{
        $db = getConnetion();
        $result = mysqli_query($db,$query)or die($db->error);
        if(mysqli_num_rows($result)>0){
            $row = mysqli_fetch_array($result);
            echo json_encode($row);
        }
    }catch (PDOException $e){
        echo json_encode($arr=array("result"=>-1));
    }
});
function isNotAvailaible($id_assessment,$id_siswa, $db){
    $query = "SELECT * FROM event_assessment WHERE
id_assessment='$id_assessment' AND id_siswa='$id_siswa'";
```

```php
    $result = mysqli_query($db,$query)or die($db->error);
    if(mysqli_num_rows($result)>0){
        return false;
    }else{
        return true;
    }
};
$app->run();
```

2. Service/RetrofitClient.java

```java
package Service;

import com.google.gson.Gson;

import com.google.gson.GsonBuilder;

import java.util.concurrent.TimeUnit;

import okhttp3.OkHttpClient;

import okhttp3.logging.HttpLoggingInterceptor;

import retrofit2.Retrofit;

import retrofit2.converter.gson.GsonConverterFactory;


public class RetrofitClient {

  private static Retrofit retrofit = null;

  public static Retrofit getClient(String baseUrl)
{

    Gson gson = new GsonBuilder()

        .setDateFormat("yyyy-MM-dd HH:mm:ss")

        .setLenient()

        .create();

    if (retrofit==null) {

      retrofit = new Retrofit.Builder()

          .baseUrl(baseUrl)

.addConverterFactory(GsonConverterFactory.create(gson))

          .client(getCli())

          .build();

    }
```

```java
    return retrofit;

  }

  private static OkHttpClient getCli(){

    HttpLoggingInterceptor logging = new HttpLoggingInterceptor();


logging.setLevel(HttpLoggingInterceptor.Level.BODY);

    OkHttpClient          client          =new
OkHttpClient.Builder()

        .connectTimeout(50,
TimeUnit.SECONDS)

        .readTimeout(50,
TimeUnit.SECONDS)

        .addInterceptor(logging)

        .build();


    return client;

  }

}
```

3. Service/ApiUtils.java

```java
package Service;

public class ApiUtils {

  private ApiUtils() {}

  private      static      final      String
baseURL="http://192.168.43.141:8080/service/index.php/";

  //      private      static      final      String
baseURL="http://10.69.8.39:8080/service/index
```

```
.php/";

    public static ApiService getAPIService() {


        return
RetrofitClient.getClient(baseURL).create(ApiSe
rvice.class);
    }
}
```

```
package Service;

import ListOfModel.AssessmentList;

import ListOfModel.BatchSoalDetailList;

import ListOfModel.BatchSoalList;

import ListOfModel.NilaiList;

import Model.Assessment;

import Model.BatchSoal;

import Model.BatchSoalDetail;

import Model.Person;

import java.util.List;

import retrofit2.Call;

import retrofit2.http.Body;

import retrofit2.http.GET;

import retrofit2.http.POST;

import retrofit2.http.PUT;

import retrofit2.http.Path;

public interface ApiService {


@GET("person/get/id/{id}/pass/{pass}/role/{ro
le}")

    Call                            <Person>
getAuthResult(@Path("id")String id,

                @Path("pass")String pass,

                @Path("role") String role);


    @GET("person/get/id/{id}/role/{role}")
```

```
    Call                          <Person>
getPersonByIdandRole(@Path("id")String id,

                @Path("role")String
role);



    @GET("assessment/get/instruktur_id/{id}")

    Call                   <AssessmentList>
getAssessmentByInstId(@Path("id")String id);


    @GET("batch_soal/get/id_instruktur/{id}")

    Call                      <BatchSoalList>
getBatchSoalByInstId(@Path("id")String id);


    @POST("assessment/add")

    Call <Assessment> addAssessment(@Body
Assessment assessment);


    @POST("person/add")

    Call <Person> addPerson(@Body Person
person);


    @POST("batch_soal/add")

    Call    <BatchSoal>    addBatchSoal(@Body
BatchSoal batchSoal);


    @GET("nilai/get/id_assmnt/{id}")

    Call                        <NilaiList>
getNilaiPerAssessment(@Path("id")String id);


@GET("batchsoaldetail/get_all/id_batchsoal/{id
}")

    Call               <BatchSoalDetailList>
getBatchDetailByIdHeader(@Path("id")String
id);


    @POST("batchsoaldetail/put")

    Call <BatchSoalDetail>
```