Explanation of Code

**DbHelper Page** for Database and Table creation

Class DbHelper(context:Context):SQLiteOpenHelper(context,"STUDENTDB",null,1) {  
 override fun onCreate(db: SQLiteDatabase?)

{  
 db?.execSQL("CREATE TABLE LOGIN(USERID TEXT, PASSWORD TEXT)")  
 db?.execSQL("CREATE TABLE TEACHERINFO(USERID TEXT,NAME TEXT, DESIGNATION TEXT, COURSE TEXT, SUBJECT TEXT, MOBILE TEXT, EMAIL TEXT)")  
 db?.execSQL("CREATE TABLE STUDENTINFO(USERID TEXT,RNO TEXT,NAME TEXT)")  
  
 }  
  
 override fun onUpgrade(db: SQLiteDatabase?, p1: Int, p2: Int) {  
  
 }  
}

**SignUp Page**

signup2.setOnClickListener **{**

**//Check Empty** if (useridsignup.*text*.toString() == "" || passwordsignup.*text*.toString() == "" || passwordsignup2.*text*.toString() == "") {  
 var toast = Toast.makeText(  
 this,  
 "Enter UserId, Password and Re-Enter Password",  
 Toast.*LENGTH\_SHORT* )  
 toast.setGravity(Gravity.*TOP*, 0, 300)  
 toast.show()  
 useridsignup.setText("")  
 passwordsignup.setText("")  
 passwordsignup2.setText("")  
 useridsignup.requestFocus()  
 } else if (passwordsignup.*text*.toString() != passwordsignup2.*text*.toString()) {  
  
 var toast = Toast.makeText(this, "Passwords Must be Same...", Toast.*LENGTH\_SHORT*)  
 toast.setGravity(Gravity.*TOP*, 0, 300)  
 toast.show()  
 passwordsignup.setText("")  
 passwordsignup2.setText("")  
 passwordsignup.requestFocus()  
  
 } else {

**//check for existing userid**

var helper = DbHelper(*applicationContext*)  
 var db: SQLiteDatabase = helper.*writableDatabase* var check = *arrayOf*(useridsignup.*text*.toString())  
 var rs: Cursor = db.rawQuery("SELECT \* FROM LOGIN WHERE USERID=?", check)  
 rs.requery()  
 if (rs.moveToNext()) {  
 Toast.makeText(this, "User Exist, Try with new UserID", Toast.*LENGTH\_LONG*).show()  
 useridsignup.setText("")  
 passwordsignup.setText("")  
 passwordsignup2.setText("")  
 useridsignup.requestFocus()  
 } else {

**//inserting in database**

var beforeinsert = rs.*count* var cv = ContentValues()  
 cv.put("USERID", useridsignup.*text*.toString())  
 cv.put("PASSWORD", passwordsignup.*text*.toString())  
 db.insert("LOGIN", null, cv)  
 rs.requery()  
 var afterinsert = rs.*count* if (afterinsert > beforeinsert) {  
 Toast.makeText(this, "Record Inserted Sucessfully", Toast.*LENGTH\_LONG*)  
 .show()  
 startActivity(Intent(this, Login::class.*java*))  
  
 } else {  
 Toast.makeText(this, "Record Not Inserted", Toast.*LENGTH\_LONG*).show()  
  
 }  
}  
 }  
  
 **}** }  
}

**Login Page**

**//connection variables**

var helper = DbHelper(*applicationContext*)  
var db: SQLiteDatabase = helper.*writableDatabase*

login.setOnClickListener **{  
  
//check for ID and PW**

if(userid.*text*.toString() !="" && password.*text*.toString() != "")  
 {  
 var etuid = userid.*text*.toString()  
 var etupw = password.*text*.toString()  
 var check = *arrayOf*(etuid,etupw)  
 var rs: Cursor = db.rawQuery("SELECT \* FROM LOGIN WHERE USERID=? AND PASSWORD=?",check)  
 rs.requery()  
 if(rs.moveToNext())  
 {  
 var intent = Intent(this, AddTeacherDetails::class.*java*)  
 intent.putExtra("USER",etuid)  
 startActivity(intent)  
 }  
 else  
 {  
 var toast = Toast.makeText(this,"Enter Correct Credentials to Login",Toast.*LENGTH\_SHORT*)  
 toast.setGravity(Gravity.*TOP*,0,300)  
 toast.show()  
 userid.setText("")  
 password.setText("")  
 userid.requestFocus()  
 }  
 }  
  
 else if(userid.*text*.toString() == "" || password.*text*.toString() == "")  
 {  
 var toast = Toast.makeText(this,"Enter UserId and Password Both",Toast.*LENGTH\_SHORT*)  
 toast.setGravity(Gravity.*TOP*,0,300)  
 toast.show()  
 userid.requestFocus()  
 }  
  
 else  
 {  
 var toast = Toast.makeText(this,"Enter Correct Credentials to Login",Toast.*LENGTH\_SHORT*)  
 toast.setGravity(Gravity.*TOP*,0,300)  
 toast.show()  
 userid.setText("")  
 password.setText("")  
 userid.requestFocus()  
 }  
  
  
 **}** signup.setOnClickListener **{** startActivity(Intent(this, SignUp::class.*java*))  
  
 **}** }  
}

**Add Teacher Details Page / Add Manager Details**

**//Connection Variables**

var helper = DbHelper(*applicationContext*)  
 var db: SQLiteDatabase = helper.*writableDatabase* var intent = getIntent()  
 var userid = intent.getStringExtra("USER")

**//Check and Fetch the records**

var check = *arrayOf*(userid)  
 var rs: Cursor = db.rawQuery("SELECT \* FROM TEACHERINFO WHERE USERID=?", check)  
 rs.requery()  
 if (rs.moveToNext()) {  
 name.setText(rs.getString(1).toString())  
 designation.setText(rs.getString(2))  
 course.setText(rs.getString(3))  
 subject.setText(rs.getString(4))  
 mobile.setText(rs.getString(5))  
 email.setText(rs.getString(6))  
 }  
 else {  
 name.setHint("Enter Name")  
 designation.setHint("Enter Designation")  
 course.setHint("Enter Course")  
 subject.setHint("Enter Subject")  
 mobile.setHint("Enter Mobile No")  
 email.setHint("Enter Email")  
  
  
 }

**//On Click save t he record**

btnupdate.setOnClickListener **{** if(name.*text*.toString() !="" && designation.*text*.toString() !="" && course.*text*.toString() !="" && subject.*text*.toString() !="" && mobile.*text*.toString() !="" && email.*text*.toString() !="")  
 {  
 var cv = ContentValues()  
 cv.put("USERID",userid)  
 cv.put("NAME", name.*text*.toString())  
 cv.put("DESIGNATION", designation.*text*.toString())  
 cv.put("COURSE", course.*text*.toString())  
 cv.put("SUBJECT", subject.*text*.toString())  
 cv.put("MOBILE", mobile.*text*.toString())  
 cv.put("EMAIL", email.*text*.toString())  
 db.insert("TEACHERINFO",null,cv)  
 rs.requery()  
 Toast.makeText(this, "Teacher Information Updated", Toast.*LENGTH\_LONG*).show()  
 var intent = Intent(this,Home::class.*java*)  
 intent.putExtra("USER",userid)  
 startActivity(intent)  
 }  
 else  
 {  
 Toast.makeText(this, "Enter All details", Toast.*LENGTH\_LONG*).show()  
 }  
  
 **}** btnhome.setOnClickListener **{** var intent = Intent(this,Home::class.*java*)  
 intent.putExtra("USER",userid)  
 startActivity(intent) **}** btnstudent.setOnClickListener **{** var intent = Intent(this,AddStudentInfo::class.*java*)  
 intent.putExtra("USER",userid)  
 startActivity(intent) **}** }  
}

**Home Page**

var helper = DbHelper(*applicationContext*)  
 var db: SQLiteDatabase = helper.*writableDatabase* var intent = getIntent()  
 var userid = intent.getStringExtra("USER")  
 var check = *arrayOf*(userid)  
 var rs: Cursor = db.rawQuery("SELECT \* FROM TEACHERINFO WHERE USERID=?", check)  
 rs.requery()  
 if (rs.moveToNext()) {  
 tname.*text* = rs.getString(1)  
 tdesi.*text* = rs.getString(2)  
 tcourse.*text* = rs.getString(3)  
 tsubject.*text* = rs.getString(4)  
 tmobile.*text* = rs.getString(5)  
 temail.*text* = rs.getString(6)  
  
 }  
 else {  
 tname.*text* = "No Record"  
 tdesi.*text* = "No Record"  
 tcourse.*text* = "No Record"  
 tsubject.*text* = "No Record"  
 tmobile.*text* = "No Record"  
 temail.*text* = "No Record"  
  
  
 }  
  
 friendsbtn.setOnClickListener **{** var intent = Intent(this,AllStudents::class.*java*)  
 intent.putExtra("USER",userid)  
 startActivity(intent)  
  
  
  
 **}** logoutbtn.setOnClickListener **{** startActivity(Intent(this, Login::class.*java*))  
 **}** addstudbtn.setOnClickListener **{** var intent = Intent(this,AddStudentInfo::class.*java*)  
 intent.putExtra("USER",userid)  
 startActivity(intent) **}** }  
  
}

**Add StudentInfo / Employeeinfo**

var helper = DbHelper(*applicationContext*)  
 var db: SQLiteDatabase = helper.*writableDatabase* var intent = getIntent()  
 var userid = intent.getStringExtra("USER")  
  
**// Check for Student Exist or not**

btnsave.setOnClickListener **{** var check = *arrayOf*(userid, rno.*text*.toString())  
 var rs:Cursor = db.rawQuery("SELECT \* FROM STUDENTINFO WHERE USERID=? AND RNO=?", check)  
 rs.moveToFirst()  
 if(rs.moveToNext()) {  
 Toast.makeText(this, "Already Entered", Toast.*LENGTH\_LONG*).show()  
 rno.setText("")  
 sname.setText("")  
 rno.requestFocus()  
 } else {  
 var beforeinsert = rs.*count* var cv = ContentValues()  
 cv.put("USERID", userid)  
 cv.put("RNO", rno.*text*.toString())  
 cv.put("NAME", sname.*text*.toString())  
 db.insert("STUDENTINFO", null, cv)  
 rs.requery()  
 var afterinsert = rs.*count* if (afterinsert > beforeinsert) {  
 Toast.makeText(this, "Record Inserted Sucessfully", Toast.*LENGTH\_LONG*)  
 .show()  
 rno.setText("")  
 sname.setText("")  
 rno.requestFocus()  
  
 } else {  
 Toast.makeText(this, "Record Not Inserted", Toast.*LENGTH\_LONG*).show()  
  
 }  
  
  
 }  
  
 **}** btnview.setOnClickListener **{** var intent = Intent(this, AllStudents::class.*java*)  
 intent.putExtra("USER",userid)  
  
 startActivity(intent)  
 **}** btnlogout.setOnClickListener **{** startActivity((Intent(this,Login::class.*java*))) **}** }  
}

**Custom Adapter for List View**

class CustomAdapter(  
 var allstudents: AllStudents,  
 var rno: ArrayList<String>,  
 var name: ArrayList<String>  
):BaseAdapter() {  
 override fun getCount(): Int {  
 return rno.size  
 }  
  
 override fun getItem(p0: Int): Any {  
 return p0  
 }  
  
 override fun getItemId(p0: Int): Long {  
 return p0.toLong()  
 }  
  
 override fun getView(p0: Int, p1: View?, p2: ViewGroup?): View {  
 var inview = LayoutInflater.from(allstudents).inflate(R.layout.*listitems*,p2, false)  
 var rn = inview.findViewById<TextView>(R.id.*tvrnolist*)  
 var nm = inview.findViewById<TextView>(R.id.*tvnamelist*)  
 rn.*text* = rno[p0]  
 nm.*text* = name[p0]  
 return inview  
 }  
  
}

**All Students / Employees**

var helper = DbHelper(*applicationContext*)  
 var db: SQLiteDatabase = helper.*writableDatabase* var intent = getIntent()  
 var userid = intent.getStringExtra("USER")  
 var check = *arrayOf*(userid)  
 var rs: Cursor = db.rawQuery("SELECT \* FROM STUDENTINFO WHERE USERID=?",check)  
 rs.moveToFirst()  
 if(rs.moveToNext()) {  
 val rno = ArrayList<String>()  
 val name = ArrayList<String>()  
 rs.moveToFirst()

**//Create an Array to be shared**

while (rs.moveToNext()) {  
 rno.add(rs.getString(1))  
 name.add(rs.getString(2))  
 }  
 var myadapter = CustomAdapter(this, rno, name)  
 lview.*adapter* = myadapter  
 }  
 else  
 {  
 Toast.makeText(this, "No Records Found", Toast.*LENGTH\_LONG*).show()  
 var intent = Intent(this,AddStudentInfo::class.*java*)  
 intent.putExtra("USER",userid)  
 startActivity(intent)  
 }  
  
  
  
 }  
}