

SCREEN 1

```
when btn_posicionar .Click
do
  evaluate but ignore result call BluetoothClient1 .Connect
  address "20:16:08:22:94:84"
  if BluetoothClient1 .IsConnected
  then call BluetoothClient1 .SendText
  text join "mp"
  "0"
  "der"
  "0"
  "1"
  "0"
  "20"
  "0"
  "1"
  "0"
  if not BluetoothClient1 .IsConnected
  then call Conexion .ShowMessageDialog
  message "Verifique si está activada la conexión Bluetooth..."
  title "Error de Conexión"
  buttonText "Aceptar"
```

```
when btn_salir .Click
do close application
```

```
when Screen1 .ErrorOccurred
component functionName errorNumber message
do if get errorNumber = 507
then set functionName to "Error de Conexión :("
set message to "Verifique la conexión Bluetooth del celular o si..."
```

```
when bnt_inicio .Click
do call ir_a
pantalla "Screen2"
call BluetoothClient1 .Disconnect
```

```
when Screen1 .ErrorOccurred
component functionName errorNumber message
do if get errorNumber = 507
then set functionName to "Error de Conexión :("
set message to "Verifique la conexión Bluetooth del celular o si..."
```

SCREEN 2

```
to ir_a pantalla
do
  if true
  then open another screen screenName get pantalla
  close screen

when btn_derecha .Click
do call ir_a pantalla "Screen5"

when btn_izquierda .Click
do call ir_a pantalla "Screen6"

when btn_rsm .Click
do call ir_a pantalla "Screen1"
```

SCREEN 3

```
to ir_a pantalla
do
  if true
  then open another screen screenName get pantalla
  close screen
```

```
when btn_rmpm_d .Click
do
  call ir_a
  pantalla " Screen2 "
```

```
when btn_flexion_d .Click
do
  call ir_a
  pantalla " Screen7 "
```

```
when btn_extension_d .Click
do
  call ir_a
  pantalla " Screen9 "
```

```
when btn_abduccion_d .Click
do
  call ir_a
  pantalla " Screen11 "
```

```
when btn_aduccion_d .Click
do
  call ir_a
  pantalla " Screen13 "
```

```
when btn_pronacion_d .Click
do
  call ir_a
  pantalla " Screen15 "
```

```
when btn_supinacion_d .Click
do
  call ir_a
  pantalla " Screen17 "
```

SCREEN 4

```
to ir a pantalla
do
  if true
  then open another screen screenName | get pantalla
  close screen

when btn_regresar Click
do
  call ir a
  pantalla | Screen5
```

```
initialize global nombre to create empty list
initialize global apellido to create empty list
initialize global angulo to create empty list
initialize global velocidad to create empty list
initialize global repeticiones to create empty list
initialize global nombre_apellido to create empty list
initialize global index_solicitado to 0
```

```
when Slider_velocidad PositionChanged
thumbPosition
do set TextBox_velocidad . Text to round Slider_velocidad . ThumbPosition

when Slider_angulo PositionChanged
thumbPosition
do set TextBox_angulo . Text to join round Slider_angulo . ThumbPosition
  "°"

when Slider_repeticiones PositionChanged
thumbPosition
do set TextBox_repeticiones . Text to round Slider_repeticiones . ThumbPosition
```

```
when Screen7 Initialize
do
  set global nombre to call TinyDB1 . GetValue
  tag nombre
  valueIfTagNotThere create empty list
  set global apellido to call TinyDB1 . GetValue
  tag apellido
  valueIfTagNotThere create empty list
  set global angulo to call TinyDB1 . GetValue
  tag angulo
  valueIfTagNotThere create empty list
  set global velocidad to call TinyDB1 . GetValue
  tag velocidad
  valueIfTagNotThere create empty list
  set global repeticiones to call TinyDB1 . GetValue
  tag repeticiones
  valueIfTagNotThere create empty list
  set global nombre_apellido to call TinyDB1 . GetValue
  tag nombre_apellido
  valueIfTagNotThere create empty list
  set Spinner_perfil . Elements to get global nombre_apellido
  set TextBox_angulo . Text to join Slider_angulo . ThumbPosition
  "°"
  set TextBox_velocidad . Text to Slider_velocidad . ThumbPosition
  set TextBox_repeticiones . Text to Slider_repeticiones . ThumbPosition
```

```
when btn_cargar Click
do
  initialize local index_carga to index in list thing
  list get global nombre_apellido
  in
  set TextBox_nombre . Text to select list item list get global nombre
  index get index_carga
  set TextBox_apellido . Text to select list item list get global apellido
  index get index_carga
  set Slider_angulo . ThumbPosition to select list item list split text select list item list get global angulo
  index get index_carga
  at "°"
  index 1
  set Slider_velocidad . ThumbPosition to select list item list split text select list item list get global velocidad
  index get index_carga
  at "°"
  index 1
  set Slider_repeticiones . ThumbPosition to select list item list split text select list item list get global repeticiones
  index get index_carga
  at "°"
  index 1
```


SCREEN 5

```
initialize global cond_inic to false
initialize global nombre_apellido to create empty list
initialize global angulo to create empty list
initialize global velocidad to create empty list
initialize global repeticiones to create empty list
initialize global angulo_real to 0
initialize global index_solicitado to 0
initialize global contador to 0

when Screen8.Initialize
do
  set global nombre_apellido to call TinyDB1.GetValue
  tag "nombre_apellido"
  valueIfTagNotThere create empty list
  set global angulo to call TinyDB1.GetValue
  tag "angulo"
  valueIfTagNotThere create empty list
  set global velocidad to call TinyDB1.GetValue
  tag "velocidad"
  valueIfTagNotThere create empty list
  set global repeticiones to call TinyDB1.GetValue
  tag "repeticiones"
  valueIfTagNotThere create empty list
  set global index_solicitado to call TinyDB1.GetValue
  tag "index_solicitado"
  valueIfTagNotThere create empty list
  set muestra_nombre.Text to select list item list
  index get global nombre_apellido
  index get global index_solicitado
  set muestra_angulo.Text to select list item list
  index get global angulo
  index get global index_solicitado
  set muestra_velocidad.Text to select list item list
  index get global velocidad
  index get global index_solicitado
  set muestra_repeticiones.Text to select list item list
  index get global repeticiones
  index get global index_solicitado

when btn_conectar.Click
do
  evaluate but ignore result call BluetoothClient1.Connect
  address "20:16:08:22:94:84"
  if not BluetoothClient1.IsConnected
  then
    call Conexion.ShowDialog
    message "Verifique si está activada la conexión Bluetooth..."
    title "Error de Conexión"
    buttonText "Aceptar"
```

SCREEN 5

```
when Clock1.Timer
do
  if BluetoothClient1.IsConnected
  then
    set btn_conectar.BackgroundColor to #00FF00
    set btn_conectar.Text to "CONECTADO"
    set btn_conectar.Enabled to false
    if call BluetoothClient1.BytesAvailableToReceive >= 4
    then
      set global angulo_real to select list item list split text call BluetoothClient1.ReceiveText
      numberOfBytes call BluetoothClient1.BytesAvailableToReceive
      at " "
      index 2
      set TextBox_angulo.Text to join get global angulo_real
      set TextBox_rep.Text to get global contador
      if get global angulo_real >= 180
      then
        set global cond_inic to true
        if get global cond_inic and get global angulo_real = 0
        then
          set global contador to get global contador + 1
          if get global contador = 10
          then
            call paro
            set global cond_inic to false
          else
            set btn_conectar.BackgroundColor to #CCCCCC
            set btn_conectar.Text to "CONECTAR"
            set btn_conectar.Enabled to true
          end if
        end if
      end if
    end if
  end if
end do
```

```
when btn_finalizar.Click
do
  call Finalizar.ShowDialog
  message "El dispositivo se posicionara para ser apagado"
  title "Finalizar la terapia de rehabilitación"
  button1Text "ACEPTAR"
  button2Text "CANCELAR"
  cancelable false
end do
```

```
when Finalizar.AfterChoosing
choice
do
  if get choice = "ACEPTAR"
  then
    if BluetoothClient1.IsConnected
    then
      call BluetoothClient1.SendText
      text join "mpg"
      " "
      "der"
      " "
      "600"
      " "
      "20"
      " "
      "1"
      " "
      " "
    end if
    call BluetoothClient1.Disconnect
    call ir_a
    pantalla "Screen1"
  end if
end do
```

SCREEN 5

```
to ir_a pantalla
do
  if true
  then
    open another screen screenName get pantalla
  close screen

when btn_regresar Click
do
  call BluetoothClient1 Disconnect
  call ir_a
  pantalla "Screen7"

when btn_iniciar Click
do
  set TextBox_angulo Enabled to false
  set TextBox_rep Enabled to false
  set btn_iniciar Enabled to false
  set HorizontalArrangement_A Visible to false
  set HorizontalArrangement_R Visible to false
  set HorizontalArrangement_P Visible to true
  if BluetoothClient1 IsConnected
  then
    set global contador to 1
    call BluetoothClient1 SendText
    text join "mfs"
    " "
    "der"
    " "
    select list item list split at spaces muestra_angulo Text
    index 1
    " "
    select list item list split at spaces muestra_velocidad Text
    index 1
    " "
    select list item list split at spaces muestra_repeticiones Text
    index 1
    " "

when btn_parar Click
do
  call parar

to parar
do
  set btn_iniciar Enabled to true
  set HorizontalArrangement_A Visible to false
  set HorizontalArrangement_R Visible to false
  set HorizontalArrangement_P Visible to false
  set global cond_inic to false
  set global contador to 0
  if BluetoothClient1 IsConnected
  then
    call BluetoothClient1 SendText
    text "paro,0,0,0,"

when Screen8 ErrorOccurred
component functionName errorNumber message
do
  if get errorNumber = 507
  then
    set functionName to "Error de Conexión"
    set message to "Verifique la conexión Bluetooth del celular o si..."
```