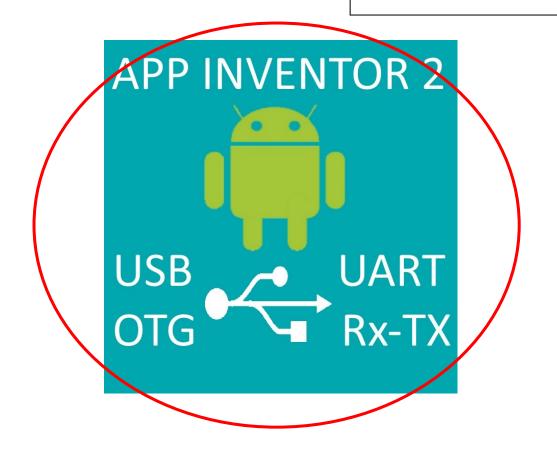
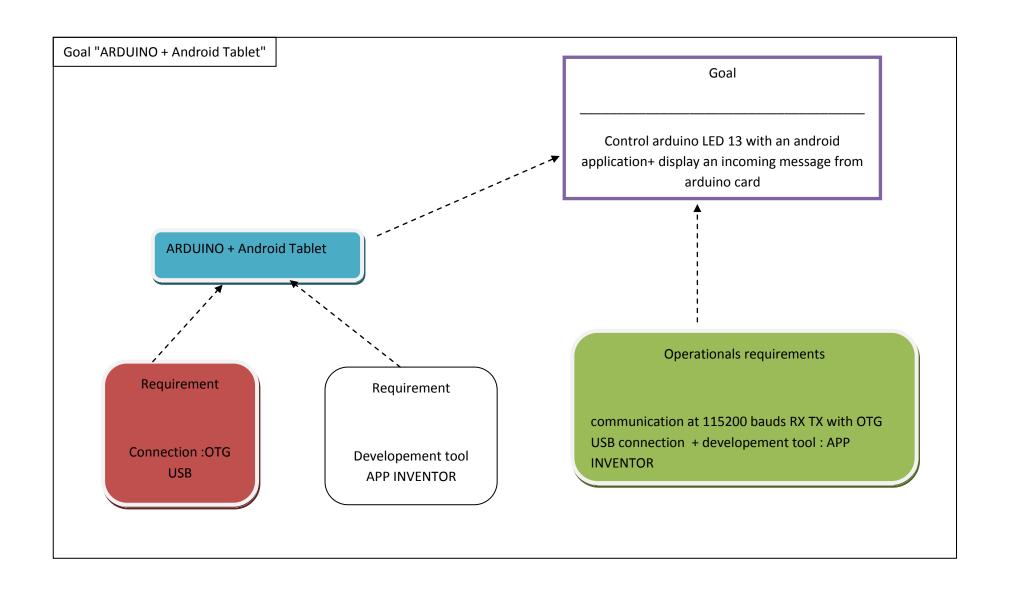
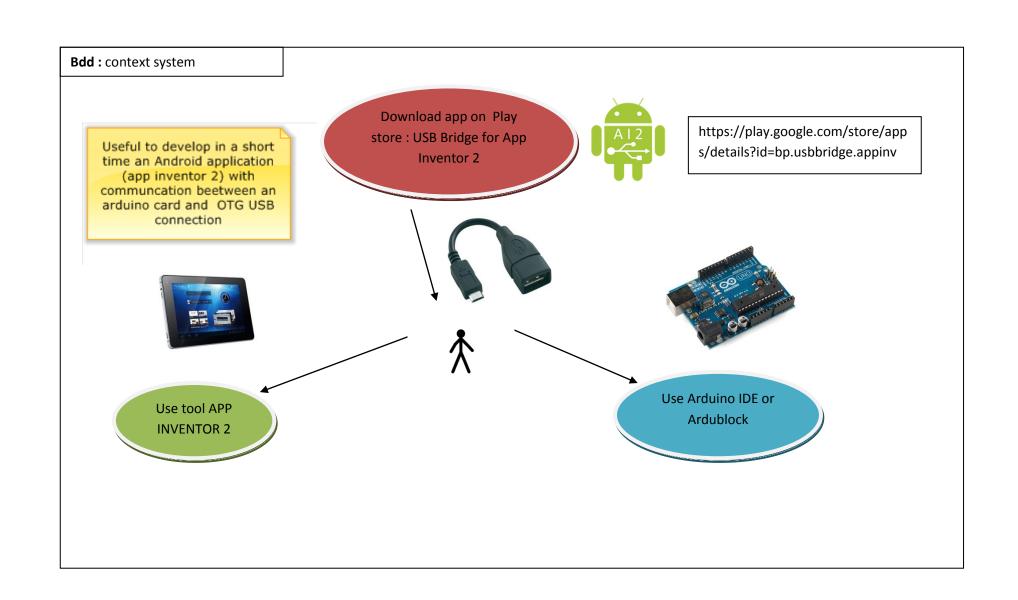
HELP FOR FULL

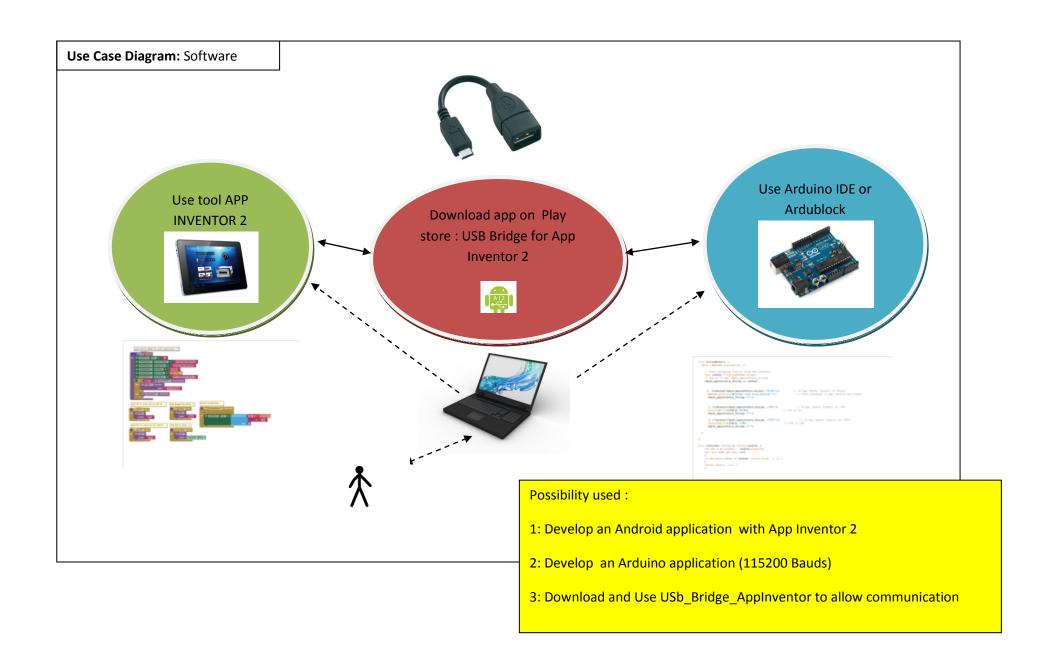


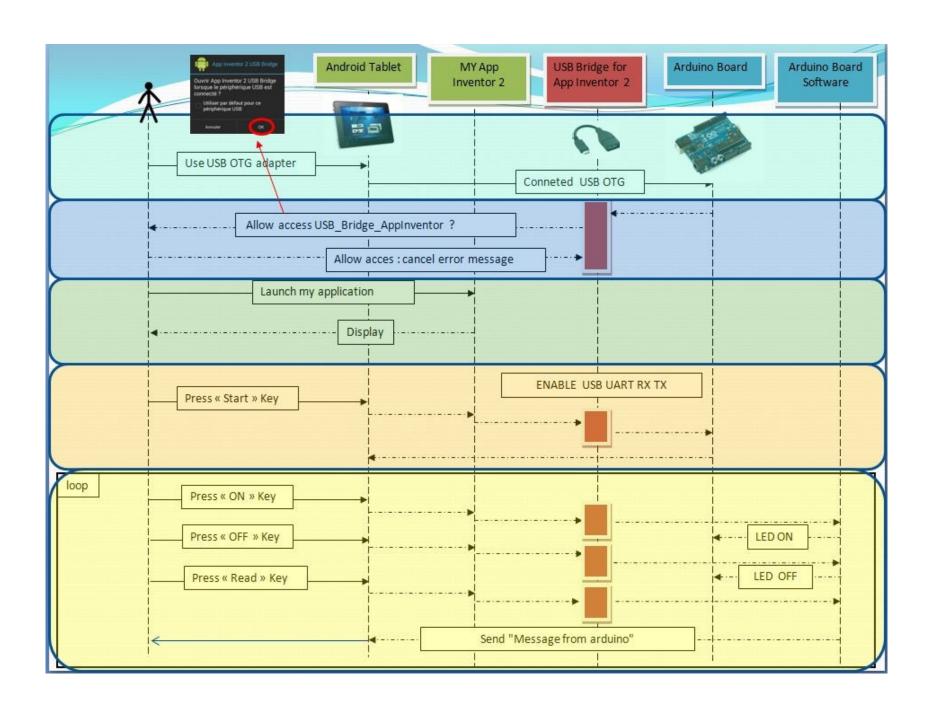


[COMMUNICATION: APP INVENTOR <-USB->UART]

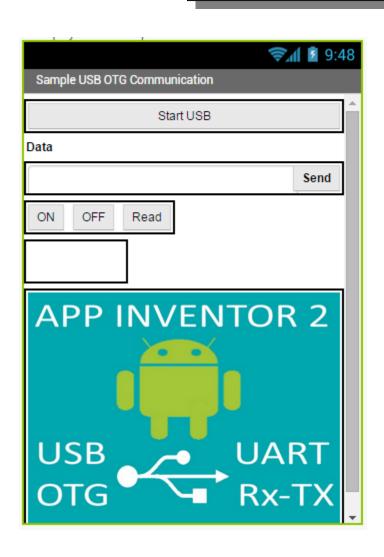








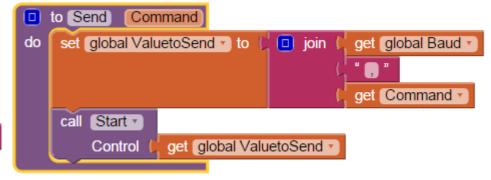
Android Tablet APP INVENTOR 2



```
1) Initialisation
  when Screen1 .Initialize
       set SEND . Enabled to false
       set ON . Enabled to
                                 false
                  . Enabled ▼ to
                                  false
      set Start USB
                       . Enabled ▼
                                   to true •
                              to false
                   Enabled •
       set Read
Launch USB OTG BRIDGE for serial communication
    when Start USB . Click
                          . ActivityPackage ▼
                                                   bp.usbbridge.appinv
      set ActivityStarter1 •
                                                bp.usb.bridge.appinventor
                          . ActivityClass •
      set ActivityStarter1 •
                 . Enabled ▼
                                 true •
                  Enabled •
                             to
                                  true
      set Read
                   Enabled •
                                   true
      set SEND . Enabled to
                                   true
                       . Enabled 🔻 to 🕼 false 🔻
      set Start USB •
```

2) Communication : DON'T CHANGE IT

```
RX / TX serial communication
   ? to Start Control
                     Text ▼ to [ " " "
do
     set Received .
     set ActivityStarter1 •
                          ExtraKey to
                                             OnSend "
     set ActivityStarter1 -
                           ExtraValue ▼ to
                                              get Control •
                                                APP INVENTOR RESULT "
     set ActivityStarter1 •
                          ResultName ▼ to
                          call ActivityStarter1 .ResolveActivity
     if 📵
               is empty
     then
           call ActivityStarter1 .StartActivity
```



```
If you want to change the baud rate:

For example : BAUD9600

initialize global Baud to ( BAUD115200 " initialize global ValuetoSend to ( " " " "
```

3) Write Command

```
Send "ON" to serial and turn LED ON

Send "OFF" to serial and turn LED OFF $ Send data to serial $

when ON Click do call Send Command Command
```

4) Read Command

ARDUINO Card

```
// Sample Arduino sketch for use with usb-serial-for-android OTG and APP INVENTOR 2

// 09/02/2015

// LED ON (13) if received "ON"

// LED OFF (13) If received "OFF"

// Send a message if received "Read"
```

```
String Input Appinventor String = "";
                                               // String to hold incoming App inventor Data
                                                               If you want to change the baud rate:
const int ledPin = 13;
int Valeur = 0 ;
                                               For example: Serial.begin(9600) change it in APP INVENTOR: BAUD9600
void setup()
  Serial.begin(115200);
               has an LED connected on most Arduino boards:
                                                                           initialize global Baud to (
                                                                                                         BAUD115200
  pinMode(ledPin, OUTPUT);
  Input_Appinventor_String.reserve(200);
  delay(2000);
                                                                            initialize global (ValuetoSend) to
void loop() {
  delay(10);
```

```
void serialEvent() {
 while (Serial.available()) {
   // Read incomming Control From App Inventor
   char inChar = (char)Serial.read();
   // add it to the Input Appinventor String:
   Input_Appinventor_String += inChar;
   Input Appinventor String ="";}
    if (Contains(Input_Appinventor_String ,"ON")){
                                               // If App Inveot Control is "ON"
    digitalWrite(ledPin, HIGH);
                                         // Led 13 On
    Input_Appinventor_String ="";}
    digitalWrite(ledPin, LOW);
                                         // Led 13 Off
    Input_Appinventor_String ="";}
bool Contains (String s, String search) {
   int max = s.length() - search.length();
   for (int i=0; i<= max; i++)
   if (s.substring(i) == search) return true; // or i
   return false; //or -1
```

Program Arduino with ARDUBLOCK : ardublock-beta-20140828.jar

http://sourceforge.net/projects/ardublock/files/

