```
1: const std = @import("std");
 3: const dds = @import("dds");
 5: // keyboard
 6: const kbd = @import("cursed").kbd;
 8: // panel
 9: const pnl = @import("forms").pnl;
10: // button
11: const btn = @import("forms").btn;
12: // label
13: const lbl = @import("forms").lbl;
14: // menu
15: const mnu = @import("forms").mnu;
16: // flied
17: const fld = @import("forms").fld;
18: // line horizontal
19: const lnh = @import("forms").lnh;
20: // line vertival
21: const lnv = @import("forms").lnv;
22:
23: // grid
24: const grd = @import("grid").grd;
25:
26: // full delete for produc
27: const forms = @import("forms");
28:
29: const allocator = std.heap.page_allocator;
31: // tools utility
32: const utl = @import("utils");
34: const deb_Log = @import("logger").openFile; // open file
35: const end_Log = @import("logger").closeFile; // close file
36: const plog = @import("logger").scoped; // print file
37:
38:
39: //....//
40: // define Ctvpe JSON
41: const Ctype = enum { null, bool, integer, float, number_string, string, array, object, decimal_string };
42:
43: //....//
44: // define BUTTON JSON
45: //....//
46:
```

```
47: const DEFBUTTON = struct {key: kbd, show: bool, check: bool, title: []const u8 };
48:
49: const Jbutton = enum {key, show, check, title };
51: //....//
52: // define LABEL JSON
53: //....//
54:
55: const DEFLABEL = struct { name: []const u8, posx: usize, posy: usize, text: []const u8, title: bool };
56:
57: const Jlabel = enum { name, posx, posy, text, title };
58:
59:
60: //....//
61: // define FIELD JSON
62: //....//
63:
64: pub const DEFFIELD = struct {
       name: []const u8,
65:
66:
       posx: usize,
67:
       posy: usize,
       reftyp: dds.REFTYP,
68:
69:
       width: usize,
       scal: usize,
70:
       requier: bool, // requier or FULL
71:
72:
       protect: bool, // only display
       edtcar: []const u8, // edtcar ex: monnaie
73:
74:
75:
       regex: []const u8, //contrà le regex
       errmsg: []const u8, //message this field
76:
77:
78:
       help: []const u8, //help this field
79:
80:
       text: []const u8,
       zwitch: bool, // CTRUE CFALSE
81:
82:
83:
       procfunc: []const u8, //name proc
84:
85:
       proctask: []const u8, //name proc
86:
87:
       actif: bool,
88: };
89:
90: const Jfield = enum {
91:
       name,
92:
       posx,
```

```
10/21/23
00:26:41
```

```
93:
        posy,
        reftyp,
 94:
 95:
        width,
 96:
        scal,
 97:
        text,
 98:
        zwitch,
 99:
        requier,
100:
        protect,
101:
        edtcar,
102:
        errmsq,
103:
        help,
104:
        procfunc,
105:
        proctask
106: };
107:
108:
109:
110: //.....//
111: // define PANEL JSON
112: //....//
113: const RPANEL = struct {
        name: []const u8,
114:
115:
        posx: usize,
        posy: usize,
116:
117:
        lines: usize,
118:
        cols: usize,
119:
        cadre: dds.CADRE,
120:
        title: []const u8,
121:
        button: std.ArrayList(DEFBUTTON),
        label: std.ArrayList(DEFLABEL),
122:
        field: std.ArrayList(DEFFIELD)
123:
124: };
125:
126: const Jpanel = enum {
127:
        name,
128:
        posx,
129:
        posy,
130:
        lines,
131:
        cols,
132:
        cadre,
133:
        title,
134:
        button,
135:
        label,
136:
        field
137: };
138:
```

```
139: var ENRG = std.ArrayList(RPANEL).init(allocator);
140:
141: //....//
142: // string return enum
143: //.....//
144:
145: fn strToEnum(comptime EnumTag: type, vtext: []const u8) EnumTag {
        inline for (@typeInfo(EnumTag).Enum.fields) | f | {
146:
147:
            if (std.mem.eql(u8, f.name, vtext)) return @field(EnumTag, f.name);
148:
149:
150:
        var buffer: [128]u8 = [_]u8\{0\} ** 128;
151:
        var result = std.fmt.bufPrintZ(buffer[0..], "invalid Text {s} for strToEnum ", .{vtext}) catch unreachable;
152:
        @panic(result);
153: }
154:
155:
156:
157:
158:
159: //.....//
160: // JSON
161: //....//
162:
163: const T = struct {
164:
        x: ?std.json.Value,
165:
        var err : bool = false ;
166:
167:
168:
        pub fn init(self: std.json.Value) T {
169:
            return T{ .x = self };
170:
171:
172:
173:
174:
        pub fn get(self: T, query: []const u8) T {
175:
            err= false;
176:
177:
            if (self.x.?.object.get(query) == null) {
               std.debug.print("ERROR::{s}::{s}\n\n", .{"invalid",query});
178:
179:
               err= true;
180:
               return T.init(self.x.?);
181:
182:
183:
            return T.init(self.x.?.object.get(query).?);
184:
```

```
185:
186:
187:
188:
         pub fn ctrlPack(self: T, Xtype: Ctype) bool {
189:
             var out = std.ArrayList(u8).init(allocator);
190:
             defer out.deinit();
191:
192:
             switch (self.x.?) {
193:
                 .null => {
194:
                   if (Xtype != .null) return false;
195:
196:
197:
                 .bool => {
198:
                    if (Xtype != Ctype.bool) return false;
199:
                 },
200:
201:
                 .integer => {
202:
                     if (Xtype != Ctype.integer) return false;
203:
                 },
204:
205:
                 .float => {
206:
                     if (Xtype != Ctype.float) return false;
207:
                 },
208:
209:
                 .number_string => {
210:
                     if (Xtype != Ctype.number string) return false;
211:
                 },
212:
213:
                 .string => {
214:
                     if (Xtype != Ctype.string) return false;
215:
                    if (Xtype == Ctype.decimal_string)
                         return utl.isDecimalStr( std.fmt.allocPrint(allocator, "{s}", .{self.x.?.string}) catch unreachable);
216:
217:
                 },
218:
219:
                 .array => {
220:
                     if (Xtype != Ctype.array) return false;
                 },
221:
222:
223:
                 .object => {
224:
                    if (Xtype != Ctype.object) return false;
225:
                    //try printPack(self, Xtype);
                 },
226:
227:
228:
229:
             return true;
230:
```

```
231:
232:
233:
234:
        pub fn index(self: T, i: usize) T {
235:
236:
            err= false;
237:
            switch (self.x.?) {
238:
                .array => {
239:
                   if (i > self.x.?.array.items.len) {
                        std.debug.print("ERROR::{s}::\n\n", .{"index out of bounds"});
240:
241:
                        err = true:
242:
                       return T.init(self.x.?);
243:
244:
                },
245:
                else => {
246:
                    std.debug.print("ERROR::{s}:: {s}\n\n", .{ "Not array", @tagName(self.x.?) });
247:
                    err = true;
248:
                   return T.init(self.x.?);
249:
               },
250:
251:
            return T.init(self.x.?.array.items[i]);
252:
253: };
254:
255:
256: //....//
257: // DECODEUR
258: //....//
259:
260: pub fn jsonDecode(my_json: []const u8) !void {
261:
        var val: T = undefined;
262:
263:
        const parsed = try std.json.parseFromSlice(std.json.Value, allocator, my_json, .{});
264:
        defer parsed.deinit();
265:
266:
        std.debug.print("\n", .{});
267:
268:
        const json = T.init(parsed.value);
269:
270:
271:
        val = json.get("PANEL");
272:
273:
        var nbrPanel = val.x.?.array.items.len;
274:
275:
        var p: usize= 0;
276:
```

```
277:
         const Rpanel = std.enums.EnumIndexer(Jpanel);
278:
279:
         const Rbutton = std.enums.EnumIndexer(Jbutton);
280:
281:
         const Rlabel = std.enums.EnumIndexer(Jlabel);
282:
283:
         const Rfield = std.enums.EnumIndexer(Jfield);
284:
285:
         while (p < nbrPanel) : (p += 1) {
286:
             var n: usize = 0; // index
287:
288:
             ENRG.append(RPANEL{
                 .name="",
289:
290:
                 .posx=0,
291:
                 .posy=0,
292:
                 .lines=0.
293:
                 .cols=0,
294:
                 .cadre=dds.CADRE.line0,
                 .title="",
295:
296:
                 .button=std.ArrayList(DEFBUTTON).init(allocator),
297:
                 .label=std.ArrayList(DEFLABEL).init(allocator),
298:
                 .field=std.ArravList(DEFFIELD).init(allocator)
299:
             }) catch unreachable;
300:
301:
             while (n < Rpanel.count) : (n += 1) {
302:
                 var v: usize = 0; // index
303:
                 var v: usize = 0; // array len
304:
                 var z: usize = 0; // compteur
305:
                 var b: usize = 0; // button
306:
                 var l: usize = 0; // label
307:
                 var f: usize = 0; // field
308:
309:
                 switch (Rpanel.keyForIndex(n)) {
310:
                     Jpanel.name => {
311:
                         val = json.get("PANEL").index(p).get(@tagName(Rpanel.keyForIndex(n)));
312:
                         if ( T.err ) break ;
313:
314:
                         if (val.ctrlPack(Ctype.string))
315:
                             ENRG.items[p].name = try std.fmt.allocPrint(allocator, "{s}", .{val.x.?.string})
316:
                         else
317:
                             @panic(try std.fmt.allocPrint(allocator,
318:
                             "Json Panel err_Field :{s}\n", .{@tagName(Rpanel.keyForIndex(n))}));
319:
                     },
320:
                     Jpanel.posx => {
321:
                         val = json.get("PANEL").index(p).get(@tagName(Rpanel.keyForIndex(n)));
322:
```

```
323:
                         if (val.ctrlPack(Ctype.integer))
                             ENRG.items[p].posx = @intCast(val.x.?.integer)
324:
325:
                         else
                             @panic(try std.fmt.allocPrint(allocator,
326:
327:
                             "Json err Field : {s}\n", . {@tagName(Rpanel.keyForIndex(n))}));
328:
                     },
329:
                     Jpanel.posv => {
330:
                         val = json.get("PANEL").index(p).get(@tagName(Rpanel.keyForIndex(n)));
331:
332:
                         if (val.ctrlPack(Ctvpe.integer))
333:
                             ENRG.items[p].posy = @intCast(val.x.?.integer)
334:
                         else
335:
                             @panic(try std.fmt.allocPrint(allocator,
336:
                             "Json err Field :{s}\n", .{@tagName(Rpanel.keyForIndex(n))}));
337:
                     },
338:
                     Jpanel.lines => {
339:
                         val = json.get("PANEL").index(p).get(@tagName(Rpanel.keyForIndex(n)));
340:
341:
                         if (val.ctrlPack(Ctype.integer))
342:
                             ENRG.items[p].lines = @intCast(val.x.?.integer)
343:
                         else
344:
                             @panic(try std.fmt.allocPrint(allocator,
345:
                             "Json err_Field: {s}\n", .{@tagName(Rpanel.keyForIndex(n))}));
346:
                     },
347:
                     Jpanel.cols => {
348:
                         val = json.get("PANEL").index(p).get(@tagName(Rpanel.keyForIndex(n)));
349:
350:
                         if (val.ctrlPack(Ctype.integer))
351:
                             ENRG.items[p].cols = @intCast(val.x.?.integer)
352:
                         else
353:
                             @panic(try std.fmt.allocPrint(allocator,
                             "Json err_Field: {s}\n", .{@tagName(Rpanel.keyForIndex(n))}));
354:
355:
                     },
356:
                     Jpanel.cadre => {
357:
                         val = json.get("PANEL").index(p).get(@tagName(Rpanel.keyForIndex(n)));
358:
359:
                         if (val.ctrlPack(Ctype.string)) {
360:
                             ENRG.items[p].cadre = strToEnum(dds.CADRE, val.x.?.string);
361:
                         } else @panic(try std.fmt.allocPrint(allocator,
362:
                             "Json err_Field: {s}\n", .{@tagName(Rpanel.keyForIndex(n))}));
363:
                     },
364:
                     Jpanel.title => {
365:
                         val = json.get("PANEL").index(p).get(@tagName(Rpanel.keyForIndex(n)));
366:
367:
                         if (val.ctrlPack(Ctype.string))
368:
                             ENRG.items[p].title = try std.fmt.allocPrint(allocator, "{s}", .{val.x.?.string})
```

```
369:
                        else
370:
                            @panic(try std.fmt.allocPrint(allocator,
371:
                            "Json err_Field: {s}\n", .{@tagName(Rpanel.keyForIndex(n))}));
372:
                    },
373:
374:
                    //-----
375:
376:
                    Jpanel.button => {
377:
                        val = json.get("PANEL").index(p).get(@tagName(Rpanel.keyForIndex(n)));
378:
                        if ( T.err ) break :
379:
380:
                        var bt: DEFBUTTON = undefined;
381:
                        y = val.x.?.array.items.len;
382:
                        z = 0;
383:
                        b = 0:
384:
385:
                        while (z < y) : (z += 1) {
386:
                            v = 0;
387:
                            while (v < Rbutton.count) : (v += 1) {
                                val = json.get("PANEL").index(p).get("button").index(b)
388:
389:
                                    .get (@tagName (Rbutton.keyForIndex(v))
390:
                                ) ;
391:
392:
                                switch (Rbutton.keyForIndex(v)) {
393:
                                    Jbutton.key => {
394:
                                        if (val.ctrlPack(Ctype.string)) {
395:
                                            bt.key = strToEnum(kbd, val.x.?.string);
396:
                                        } else @panic(try std.fmt.allocPrint(allocator,
397:
                                            "Json err_Field :\{s\}.\{s\}\n", .\{
398:
                                                @tagName(Rpanel.keyForIndex(n)), @tagName(Rbutton.keyForIndex(v))
399:
                                            }));
400:
401:
                                    Jbutton.show => {
                                        if (val.ctrlPack(Ctype.bool))
402:
403:
                                           bt.show = val.x.?.bool
404:
                                        else
                                            @panic(try std.fmt.allocPrint(allocator,
405:
406:
                                            "Json err Field :{s}.{s}\n", .{
407:
                                                @tagName(Rpanel.keyForIndex(n)), @tagName(Rbutton.keyForIndex(v))
408:
                                            }));
409:
                                    },
410:
                                    Jbutton.check => {
                                        if (val.ctrlPack(Ctype.bool))
411:
412:
                                            bt.check = val.x.?.bool
413:
                                        else
414:
                                            @panic(try std.fmt.allocPrint(allocator,
```

```
415:
                                              "Json err_Field:\{s\}.\{s\}\n", .
                                                  @tagName(Rpanel.keyForIndex(n)), @tagName(Rbutton.keyForIndex(v))
416:
417:
                                              }));
418:
                                      }.
419:
                                      Jbutton.title => {
                                          if (val.ctrlPack(Ctype.string))
420:
421:
                                              bt.title = try std.fmt.allocPrint(allocator, "{s}", .{val.x.?.string})
422:
                                          else
423:
                                              @panic(try std.fmt.allocPrint(allocator,
424:
                                              "Json err Field: {s}. {s}\n", .{
425:
                                                  @tagName(Rpanel.keyForIndex(n)), @tagName(Rbutton.keyForIndex(v))
426:
                                              }));
427:
428:
                                          ENRG.items[p].button.append(bt) catch unreachable;
429:
                                     },
430:
431:
432:
                             b += 1;
433:
434:
435:
436:
                     // LABEL
437:
438:
439:
                     Jpanel.label => {
                         val = json.get("PANEL").index(p).get(@tagName(Rpanel.keyForIndex(n)));
440:
441:
                         if ( T.err ) break ;
442:
443:
                         var lb: DEFLABEL = undefined;
444:
                         v = val.x.?.arrav.items.len;
445:
                         z = 0:
                         1 = 0;
446:
447:
                         while (z < y) : (z += 1) {
448:
                             v = 0;
449:
                             while (v < Rlabel.count) : (v += 1) {
450:
                                  val = json.get("PANEL").index(p).get("label").index(1)
451:
                                      .get (@tagName (Rlabel.keyForIndex (v))
452:
                                 );
453:
454:
                                  switch (Rlabel.keyForIndex(v)) {
                                      Jlabel.name => {
455:
456:
                                          if (val.ctrlPack(Ctype.string))
457:
                                              lb.name = try std.fmt.allocPrint(allocator, "{s}", .{val.x.?.string})
458:
                                          else
459:
                                              @panic(try std.fmt.allocPrint(allocator,
460:
                                                  "Json err_Field:\{s\}.\{s\}\n", .{
```

```
461:
                                                  @taqName(Rpanel.keyForIndex(n)), @taqName(Rlabel.keyForIndex(v))
462:
                                              }));
463:
                                      },
                                      Jlabel.posx => {
464:
465:
                                          if (val.ctrlPack(Ctype.integer)) {
466:
                                              lb.posx = @intCast(val.x.?.integer);
467:
                                          } else @panic(try std.fmt.allocPrint(allocator,
468:
                                              "Json err Field :{s}.{s}\n", .{
                                                  @tagName(Rpanel.keyForIndex(n)), @tagName(Rbutton.keyForIndex(v))
469:
470:
                                              }));
471:
                                      },
472:
                                      Jlabel.posy => {
473:
                                          if (val.ctrlPack(Ctype.integer)) {
474:
                                              lb.posy = @intCast(val.x.?.integer);
475:
                                          } else @panic(try std.fmt.allocPrint(allocator,
476:
                                              "Json err Field: {s}. {s}\n", .{
                                                  @tagName(Rpanel.keyForIndex(n)), @tagName(Rbutton.keyForIndex(v))
477:
478:
                                              }));
479:
480:
                                      Jlabel.text => {
481:
                                          if (val.ctrlPack(Ctype.string))
482:
                                              lb.text = try std.fmt.allocPrint(allocator, "{s}", .{val.x.?.string})
483:
                                          else
484:
                                              @panic(try std.fmt.allocPrint(allocator,
485:
                                              "Json err_Field:\{s\}.\{s\}\n", .{
486:
                                                  @tagName(Rpanel.keyForIndex(n)), @tagName(Rlabel.keyForIndex(v))
487:
                                              }));
488:
                                      },
489:
                                      Jlabel.title => {
490:
                                          if (val.ctrlPack(Ctype.bool))
491:
                                              lb.title = val.x.?.bool
492:
                                          else
493:
                                              @panic(try std.fmt.allocPrint(allocator,
494:
                                              "Json err_Field :\{s\}.\{s\}\n", .
495:
                                                  @tagName(Rpanel.keyForIndex(n)), @tagName(Rbutton.keyForIndex(v))
496:
                                              }));
497:
498:
                                          ENRG.items[p].label.append(lb) catch unreachable;
499:
                                      },
500:
501:
502:
503:
                              1 += 1;
504:
505:
                     },
506:
```

```
507:
                     // FIELD
508:
509:
510:
                     Jpanel.field => {
511:
                         val = json.get("PANEL").index(p).get(@tagName(Rpanel.keyForIndex(n)));
                         if ( T.err ) break ;
512:
513:
514:
                         var sreftyp:[]const u8 = undefined;
515:
516:
                         var lf: DEFFIELD = undefined;
517:
                         v = val.x.?.arrav.items.len;
518:
                         if(y == 0) break;
519:
520:
                         z = 0;
521:
                         f = 0:
522:
                         while (z < y) : (z += 1) {
523:
                             v = 0:
524:
                             while (v < Rfield.count) : (v += 1) {
525:
526:
                                 val = json.get("PANEL").index(p).get("field").index(f)
527:
                                                  .get (@tagName (Rfield.keyForIndex(v))
528:
                                              ) ;
529:
530:
                                 switch (Rfield.keyForIndex(v)) {
531:
                                      Jfield.name => { if (val.ctrlPack(Ctype.string))
532:
                                              lf.name = try std.fmt.allocPrint(allocator, "{s}", .{val.x.?.string})
533:
                                          else
534:
                                              @panic(try std.fmt.allocPrint(allocator,
535:
                                                  "Json err Field :{s}.{s}\n", .{
                                                  @tagName(Rpanel.keyForIndex(n)), @tagName(Rfield.keyForIndex(v))
536:
                                              }));
537:
538:
                                      },
539:
540:
                                      Jfield.posx => { if (val.ctrlPack(Ctype.integer)) {
541:
                                              lf.posx = @intCast(val.x.?.integer);
542:
                                          } else @panic(try std.fmt.allocPrint(allocator,
543:
                                              "Json err_Field:\{s\}.\{s\}\n", .{
                                                  @tagName(Rpanel.keyForIndex(n)), @tagName(Rbutton.keyForIndex(v))
544:
545:
                                              }));
546:
                                      },
547:
548:
                                      Jfield.posy => { if (val.ctrlPack(Ctype.integer)) {
549:
                                              lf.posy = @intCast(val.x.?.integer);
                                          } else @panic(try std.fmt.allocPrint(allocator,
550:
551:
                                              "Json err_Field :\{s\}.\{s\}\n", .
552:
                                                  @tagName(Rpanel.keyForIndex(n)), @tagName(Rbutton.keyForIndex(v))
```

```
553:
                                              }));
554:
                                      },
555:
556:
                                      Jfield.reftyp => {
557:
                                              if (val.ctrlPack(Ctvpe.string)) {
                                                  sreftvp = try std.fmt.allocPrint(allocator, "{s}", .{val.x.?.string});
558:
559:
560:
                                              } else @panic(try std.fmt.allocPrint(allocator,
561:
                                                       "Json err_Field :\{s\}.\{s\}\n", .
562:
                                                      @tagName(Rpanel.keyForIndex(n)), @tagName(Rfield.keyForIndex(v))
563:
                                                  }));
564:
565:
                                              lf.reftyp = strToEnum(dds.REFTYP , sreftyp);
566:
                                      },
567:
568:
                                      Jfield.width => {if (val.ctrlPack(Ctvpe.integer)) {
                                              lf.width= @intCast (val.x.?.integer);
569:
570:
                                          } else @panic(try std.fmt.allocPrint(allocator,
571:
                                              "Json err_Field:\{s\}.\{s\}\n", .
572:
                                                  @tagName(Rpanel.keyForIndex(n)), @tagName(Rbutton.keyForIndex(v))
573:
                                              }));
574:
                                      }.
575:
576:
                                      Jfield.scal => {if (val.ctrlPack(Ctype.integer)) {
577:
                                              lf.scal= @intCast(val.x.?.integer);
578:
                                          } else @panic(try std.fmt.allocPrint(allocator,
579:
                                              "Json err_Field :\{s\}.\{s\}\n", .
580:
                                                  @taqName(Rpanel.keyForIndex(n)), @taqName(Rbutton.keyForIndex(v))
581:
                                              }));
582:
583:
                                      },
584:
585:
                                      Jfield.text=>{
586:
                                          lf.text="";
587:
                                      },
588:
589:
                                      Jfield.zwitch => {
                                          lf.zwitch= false;
590:
591:
                                      },
592:
593:
                                      Jfield.requier => {
594:
                                          if (val.ctrlPack(Ctype.bool)) {
                                              lf.requier = val.x.?.bool;
595:
                                          } else @panic(try std.fmt.allocPrint(allocator,
596:
597:
                                              "Json err_Field :\{s\}.\{s\}\n", .
598:
                                                  @tagName(Rpanel.keyForIndex(n)), @tagName(Rbutton.keyForIndex(v))
```

```
599:
                                             }));
600:
                                     },
601:
602:
                                     Jfield.protect=> {
603:
                                         if (val.ctrlPack(Ctype.bool)) {
                                             lf.protect= val.x.?.bool;
604:
605:
                                         } else @panic(try std.fmt.allocPrint(allocator,
                                             "Json err Field :{s}.{s}\n", .{
606:
607:
                                                 @taqName(Rpanel.keyForIndex(n)), @taqName(Rbutton.keyForIndex(v))
608:
                                             }));
609:
                                     },
610:
611:
                                     Jfield.edtcar => { if (val.ctrlPack(Ctype.string)) {
612:
                                             lf.edtcar= try std.fmt.allocPrint(allocator, "{s}", .{val.x.?.string});
613:
                                         } else @panic(try std.fmt.allocPrint(allocator,
614:
                                                  "Json err Field: {s}.{s}\n", .{
                                                 @tagName(Rpanel.keyForIndex(n)), @tagName(Rfield.keyForIndex(v))
615:
616:
                                             }));
617:
                                     },
618:
619:
                                     Jfield.errmsg=> { if (val.ctrlPack(Ctype.string)) {
                                             lf.errmsg= try std.fmt.allocPrint(allocator, "{s}", .{val.x.?.string});
620:
621:
                                         } else @panic(try std.fmt.allocPrint(allocator,
622:
                                                  "Json err Field :{s}.{s}\n", .{
623:
                                                 @taqName(Rpanel.keyForIndex(n)), @taqName(Rfield.keyForIndex(v))
624:
                                             }));
625:
                                     },
626:
627:
                                     Jfield.help=> { if (val.ctrlPack(Ctype.string)) {
                                             lf.help= try std.fmt.allocPrint(allocator, "{s}", .{val.x.?.string});
628:
629:
                                         } else @panic(try std.fmt.allocPrint(allocator,
                                                  "Json err Field :{s}.{s}\n", .{
630:
631:
                                                  @tagName(Rpanel.keyForIndex(n)), @tagName(Rfield.keyForIndex(v))
632:
                                             }));
633:
                                     },
634:
635:
                                     Jfield.procfunc=> { if (val.ctrlPack(Ctype.string)) {
                                             lf.procfunc= try std.fmt.allocPrint(allocator, "{s}", .{val.x.?.string});
636:
637:
                                         } else @panic(try std.fmt.allocPrint(allocator,
638:
                                                  "Json err_Field :{s}.{s}\n", .{
639:
                                                 @tagName(Rpanel.keyForIndex(n)), @tagName(Rfield.keyForIndex(v))
640:
                                             }));
641:
                                     },
642:
643:
                                     Jfield.proctask => { if (val.ctrlPack(Ctype.string)) {
644:
                                             lf.proctask = try std.fmt.allocPrint(allocator, "{s}", .{val.x.?.string});
```

```
645:
                                        } else @panic(try std.fmt.allocPrint(allocator,
646:
                                                "Json err Field :{s}.{s}\n", .{
                                                @tagName(Rpanel.keyForIndex(n)), @tagName(Rfield.keyForIndex(v))
647:
648:
                                            }));
649:
                                         ENRG.items[p].field.append(lf) catch unreachable;
650:
                                    },
651:
652:
653:
654:
                            f += 1;
655:
656:
                    },
657:
658:
659:
660:
661: }
662:
663: //....//
664: // Main function
665: //....//
666: pub fn RstJson(XPANEL: *std.ArrayList(pnl.PANEL)) !void {
667:
668:
        var my_file = try std.fs.cwd().openFile("fileJson.txt", .{});
669:
            defer my_file.close();
670:
671:
672:
        const file_size = try my_file.getEndPos();
673:
        var buffer : []u8= allocator.alloc(u8, file size) catch unreachable ;
674:
675:
676:
        _= try my_file.read(buffer[0..buffer.len]);
677:
678:
        jsonDecode(buffer) catch return;
679:
680:
        deb_Log("zmodlRJson.txt");
681:
682:
        plog(.schema).debug("\n{s}\n", .{buffer});
683:
        plog(.DEBUG).debug("\nRead Json", .{});
684:
685:
        for (ENRG.items) | pnlx | {
686:
            plog(.Panel).debug("\n", .{});
687:
            plog(.Panel).debug("{s}", .{pnlx.name});
688:
            plog(.Panel).debug("{d}", .{pnlx.posx});
689:
            plog(.Panel).debug("{d}", .{pnlx.posy});
690:
            plog(.Panel).debug("{}", .{pnlx.cadre});
```

```
691:
             plog(.Panel).debug("{s}\n", .{pnlx.title});
692:
             plog(.Button).debug("\n", .{});
693:
694:
             for (pnlx.button.items) | r | {
695:
                 plog(.button).debug("{s}", .{@tagName(r.key)});
696:
                 plog(.Button).debug("{any}", .{r.key});
697:
                 plog(.Button).debug("{}", .{r.show});
698:
                 plog(.Button).debug("{}", .{r.check});
699:
                 plog(.Button).debug("{s}\n", .{r.title});
700:
701:
702:
             plog(.Label).debug("\n", .{});
703:
             for (pnlx.label.items) r {
704:
                 plog(.Label).debug("{s}", .{r.name});
705:
                 plog(.Label).debug("{d}", .{r.posx});
706:
                 plog(.Label).debug("{d}", .{r.posv});
707:
                 plog(.Label).debug("{s}", .{r.text});
708:
                 plog(.Label).debug("{}\n", .{r.title});
709:
710:
711:
             plog(.Field).debug("\n", .{});
712:
             for (pnlx.field.items) r {
713:
                 plog(.Field).debug("{s}", .{r.name});
714:
                 plog(.Field).debug("{d}", .{r.posx});
715:
                 plog(.Field).debug("{d}", .{r.posy});
716:
                 plog(.Field).debug("{s}", .{@taqName(r.reftyp)});
717:
                 plog(.Field).debug("\n{d}", .{r.width});
718:
                 plog(.Field).debug("{d}", .{r.scal});
719:
                 plog(.Field).debug("\n{}", .{r.requier});
720:
                 plog(.Field).debug("{}", .{r.protect});
                 plog(.Field).debug("{s}\n", .{r.edtcar});
721:
722:
                 plog(.Field).debug("{s}\n", .{r.errmsg});
723:
                 plog(.Field).debug("{s}\n", .{r.help});
724:
                 plog(.Field).debug("{s}\n", .{r.procfunc});
725:
                 plog(.Field).debug("{s}\n", .{r.proctask});
726:
727:
728:
729:
         plog(.end).debug("End.\n", .{});
730:
731:
         end_Log();
732:
733:
734:
735:
         XPANEL.clearAndFree();
736:
```

```
737:
         for (ENRG.items, 0...) pnlx,idx {
738:
             var vPanel: pnl.PANEL= undefined;
             vPanel= pnl.initPanel(
739:
740:
                 ENRG.items[idx].name.
741:
                 ENRG.items[idx].posx,
742:
                 ENRG.items[idx].posy,
743:
                 ENRG.items[idx].lines,
                 ENRG.items[idx].cols,
744:
745:
                 ENRG.items[idx].cadre,
746:
                 ENRG.items[idx].title);
747:
748:
749:
750:
             for (pnlx.button.items) | p | {
751:
             var vButton: btn.BUTTON= undefined;
752:
753:
             vButton = btn.newButton(p.key,p.show,p.check,p.title);
754:
755:
                 vPanel.button.append(vButton)
756:
                     catch | err | { @panic(@errorName(err)); };
757:
758:
759:
             for (pnlx.label.items) |p| {
760:
761:
             var vLabel: lbl.LABEL= undefined;
762:
763:
             if (p.title) vLabel = lbl.newTitle(p.name,p.posx,p.posy,p.text)
             else vLabel = lbl.newLabel(p.name,p.posx,p.posy,p.text);
764:
765:
766:
                 vPanel.label.append(vLabel)
767:
                     catch | err | { @panic(@errorName(err)); };
768:
769:
770:
771:
772:
             for (pnlx.field.items) p {
773:
                 var vField: fld.FIELD= undefined;
774:
                 switch (p.reftyp) {
775:
776:
                     dds.REFTYP.TEXT FREE => {
777:
                         vField = fld.newFieldTextFree(
778:
                              p.name,
779:
                              p.posx,
780:
                              p.posy,
781:
                              p.width,
782:
                              p.text,
```

```
783:
                              p.requier,
784:
                              p.errmsq,
785:
                              p.help,
786:
                              p.regex,
787:
                          );
788:
                         vField.proctask= p.proctask;
789:
                          vField.protect= p.protect;
790:
                     },
791:
792:
                      dds.REFTYP.TEXT FULL => {
793:
                          vField = fld.newFieldTextFull(
794:
                              p.name,
795:
                              p.posx,
796:
                              p.posv,
797:
                              p.width,
798:
                              p.text,
799:
                              p.requier,
800:
                              p.errmsq,
801:
                              p.help,
802:
                              p.regex,
803:
                          );
804:
                         vField.proctask= p.proctask;
                         vField.protect= p.protect;
805:
806:
                     },
807:
808:
                     dds.REFTYP.ALPHA => {
809:
                         vField = fld.newFieldAlpha(
810:
                              p.name,
811:
                              p.posx,
812:
                              p.posy,
813:
                              p.width,
814:
                              p.text,
                             p.requier,
815:
816:
                              p.errmsq,
817:
                              p.help,
818:
                              p.regex,
819:
                          );
                         vField.proctask= p.proctask;
820:
                         vField.protect= p.protect;
821:
822:
                     },
823:
824:
                      dds.REFTYP.ALPHA UPPER => {
825:
                          vField = fld.newFieldAlphaUpper(
826:
                              p.name,
827:
                              p.posx,
828:
                              p.posy,
```

```
829:
                              p.width,
830:
                              p.text,
831:
                              p.requier,
832:
                              p.errmsq,
833:
                              p.help,
834:
                              p.regex,
835:
                         );
836:
                         vField.proctask= p.proctask;
837:
                         vField.protect= p.protect;
838:
                     },
839:
840:
                     dds.REFTYP.ALPHA_NUMERIC => {
841:
                          vField = fld.newFieldAlphaNumeric(
842:
                              p.name,
843:
                              p.posx,
844:
                              p.posy,
845:
                              p.width,
846:
                              p.text,
847:
                              p.requier,
848:
                              p.errmsq,
849:
                              p.help,
850:
                              p.regex,
851:
                         );
                         vField.proctask= p.proctask;
852:
                         vField.protect= p.protect;
853:
854:
                     },
855:
856:
                     dds.REFTYP.ALPHA_NUMERIC_UPPER => {
857:
                          vField = fld.newFieldAlphaNumericUpper(
858:
                              p.name,
859:
                              p.posx,
860:
                              p.posy,
861:
                              p.width,
862:
                              p.text,
                             p.requier,
863:
864:
                              p.errmsq,
865:
                              p.help,
866:
                              p.regex,
867:
                         );
                         vField.proctask= p.proctask;
868:
869:
                         vField.protect= p.protect;
870:
                     },
871:
872:
                      dds.REFTYP.PASSWORD => {
873:
                          vField = fld.newFieldPassword(
874:
                              p.name,
```

```
875:
                              p.posx,
876:
                              p.posy,
877:
                              p.width,
878:
                              p.text,
879:
                              p.requier,
880:
                              p.errmsq,
881:
                              p.help,
882:
                              p.regex,
883:
                          );
884:
                         vField.proctask= p.proctask;
885:
                         vField.protect= p.protect;
886:
                      },
887:
888:
                      dds.REFTYP.YES NO => {
889:
                          vField = fld.newFieldYesNo(
890:
                              p.name,
891:
                              p.posx,
892:
                              p.posy,
893:
                              p.text,
894:
                              p.requier,
895:
                              p.errmsg,
896:
                              p.help,
897:
                          ) ;
                         vField.proctask= p.proctask;
898:
                         vField.protect= p.protect;
899:
900:
901:
                      },
902:
903:
                      dds.REFTYP.SWITCH => {
904:
                          vField = fld.newFieldSwitch(
905:
                              p.name,
906:
                              p.posx,
907:
                              p.posy,
908:
                              p.zwitch,
909:
                              p.errmsq,
910:
                              p.help,
911:
                          );
912:
                          vField.proctask= p.proctask;
                         vField.protect= p.protect;
913:
914:
                     },
915:
916:
                      dds.REFTYP.DATE_FR => {
                         vField = fld.newFieldDateFR(
917:
918:
                              p.name,
919:
                              p.posx,
920:
                              p.posy,
```

```
921:
                              p.text,
922:
                             p.requier,
923:
                              p.errmsq,
924:
                             p.help,
925:
                         );
                         vField.proctask= p.proctask;
926:
927:
                         vField.protect= p.protect;
928:
                     },
929:
930:
                     dds.REFTYP.DATE US => {
931:
                         vField = fld.newFieldDateUS(
932:
                              p.name,
933:
                             p.posx,
934:
                             p.posy,
935:
                             p.text,
936:
                              p.requier,
937:
                             p.errmsq,
938:
                             p.help,
939:
                         );
                         vField.proctask= p.proctask;
940:
                         vField.protect= p.protect;
941:
942:
                     },
943:
944:
                     dds.REFTYP.DATE ISO => {
945:
                         vField = fld.newFieldDateISO(
946:
                              p.name,
947:
                             p.posx,
948:
                             p.posy,
949:
                             p.text,
950:
                             p.requier,
951:
                             p.errmsq,
952:
                             p.help,
953:
954:
                         vField.proctask= p.proctask;
                         vField.protect= p.protect;
955:
956:
                     },
957:
958:
                     dds.REFTYP.MAIL ISO => {
959:
                         vField = fld.newFieldMail(
960:
                              p.name,
961:
                             p.posx,
962:
                             p.posy,
963:
                              p.width,
964:
                              p.text,
965:
                              p.requier,
966:
                              p.errmsq,
```

```
967:
                               p.help,
 968:
                           );
                           vField.proctask= p.proctask;
 969:
 970:
                           vField.protect= p.protect;
 971:
                       },
 972:
 973:
                       dds.REFTYP.TELEPHONE => {
 974:
                           vField = fld.newFieldTelephone(
 975:
                               p.name,
 976:
                               p.posx,
 977:
                               p.posy,
 978:
                               p.width,
 979:
                               p.text,
 980:
                               p.requier,
                               p.errmsg,
 981:
 982:
                               p.help,
 983:
                               p.regex,
 984:
                           );
                           vField.proctask= p.proctask;
 985:
 986:
                           vField.protect= p.protect;
 987:
                       },
 988:
 989:
                       dds.REFTYP.DIGIT => {
 990:
                           vField = fld.newFieldDigit(
 991:
                               p.name,
 992:
                               p.posx,
 993:
                               p.posy,
 994:
                               p.width,
 995:
                               p.text,
 996:
                               p.requier,
 997:
                               p.errmsq,
 998:
                               p.help,
 999:
                               p.regex,
1000:
                           );
                           vField.proctask= p.proctask;
1001:
                           vField.protect= p.protect;
1002:
                           vField.edtcar= p.edtcar;
1003:
1004:
                       },
1005:
1006:
                       dds.REFTYP.UDIGIT => {
1007:
                           vField = fld.newFieldUDigit(
1008:
                               p.name,
1009:
                               p.posx,
1010:
                               p.posy,
1011:
                               p.width,
1012:
                               p.text,
```

```
1013:
                              p.requier,
1014:
                              p.errmsq,
1015:
                              p.help,
1016:
                              p.regex,
1017:
                          );
1018:
                          vField.proctask= p.proctask;
1019:
                          vField.protect= p.protect;
1020:
                          vField.edtcar= p.edtcar;
1021:
                      },
1022:
1023:
                      dds.REFTYP.DECIMAL => {
1024:
                          vField = fld.newFieldDecimal(
1025:
                              p.name,
1026:
                              p.posx,
1027:
                              p.posy,
1028:
                              p.width,
1029:
                              p.scal,
1030:
                              p.text,
1031:
                              p.requier,
1032:
                              p.errmsq,
1033:
                              p.help,
1034:
                              p.regex,
1035:
                          );
1036:
                          vField.proctask= p.proctask;
1037:
                          vField.protect= p.protect;
1038:
                          vField.edtcar= p.edtcar;
1039:
                      },
1040:
1041:
                      dds.REFTYP.UDECIMAL => {
1042:
                          vField = fld.newFieldUDecimal(
1043:
                              p.name,
1044:
                              p.posx,
1045:
                              p.posy,
1046:
                              p.width,
1047:
                              p.scal,
1048:
                              p.text,
1049:
                              p.requier,
1050:
                              p.errmsq,
                              p.help,
1051:
1052:
                              p.regex,
1053:
                          );
1054:
                          vField.proctask= p.proctask;
1055:
                          vField.protect= p.protect;
                          vField.edtcar= p.edtcar;
1056:
1057:
                      },
1058:
```

```
1059:
                      dds.REFTYP.FUNC => {
1060:
                          vField = fld.newFieldFunc(
1061:
                              p.name,
1062:
                              p.posx,
1063:
                              p.posy,
1064:
                              p.width,
1065:
                              p.text,
1066:
                              p.requier,
1067:
                              p.procfunc,
1068:
                              p.errmsg,
1069:
                              p.help,
1070:
                          );
                          vField.proctask= p.proctask;
1071:
                          vField.protect= p.protect;
1072:
1073:
                      },
1074:
                      else => {},
1075:
1076:
                  vPanel.field.append(vField)
1077:
1078:
                      catch |err | { @panic(@errorName(err)); };
1079:
1080:
              XPANEL.append(vPanel) catch unreachable;
1081:
1082:
1083:
1084:
1085:
          ENRG.clearAndFree();
1086:
          dds.deinitUtils();
1087:
1088:
1089: }
```