GAME

UI_Manager

class Object;
class Label;
class Image;
class Button_Input;
class Gui_Listener;

enum class ClickState;

SDL_Texture* atlas;
p2SString atlas_file_name;

p2List <Object> objects_list;
Object* screen;
Object clicked_object;
ClickState click_state;

iPoint cursor_position**;**
iPoint cursor_offset**;**
bool show_cursor;

bool Awake(pugi::xml_node&);
bool Start();
bool PreUpdate();
bool Update(float dt);
bool PostUpdate();
bool CleanUp();
const SDL_Texture* GetAtlas() **const**;

Label* CreateLabel(iPoint,p2SString,_TTF_Font*,
Gui_Listener*);
Image* CreateImage(iPoint, Animation,
Gui_Listener*);
Button_Input* CreateButton (iPoint, Animation,
Gui_Listener*);

Object * GetClickedObject()**;**
Object* GetScreen();
bool DeleteObject(Object* object);
iPoint GetCursorOffset() **const**;
void SetCursorOffset(**const iPoint** offset);

bool SelecClickedObject();
void DrawGui(**Object***);
void UpdateGuiPositions(**Object***, **iPoint**);

class Gui_Listener
virtual bool OnHover();
virtual bool RepeatHover();
virtual bool OutHover();

virtual bool OnClickr();
virtual bool RepeatClick();
virtual bool OutClick();

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Object

class Gui_Listener;

enum class HoverState;

iPoint position;
iPoint relative_position;
Animation animation;
SDL_Texture * texture;
SDL_Rect section;
Gui_Listener *listener;
j1Module * listener;
Object* anchor_parent;
p2List<Object*> anchor_sons;
bool is_draggable;

Object (**iPoint** position**);**
virtual bool Draw();
iPoint GetPosition() const;
void SetPosition(const iPoint);
void SetAnchor(Object*);
p2List<Object*>* GetAnchorSons();
Object* GetAnchorParent();
void IsDraggable(const bool is_draggable);

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PreUpdate
- Detect hove in
- Detect clicked object

bool Load(pugi::xml_node&);
bool Save(pugi::xml_node&);

enum class State
{
  enabled
  disabled
  hover_on
  pushed
}

Image

Image (iPoint position **, Animation** animation, **SDL_Texture** texture**);**
bool Draw();

Label

_TTF_Font* font;
p2SString text;

Label (iPoint position, **p2SString** text , **_TTF_Font*** font**);**
void SetText(**p22String** text);
bool Draw();

Button_Input

class Button_Animation
enum class Button_State

Button_State current_state;
Button_Animation button_animation;

Button_Input(iPoint position, **SDL_Texture** texture);
bool Draw();
bool SetLabel(**p2SString**);

Check_Box_Input

bool checked;