The base Quake 2 UI system is inflexible, very code-heavy, has no way for the server to tell a client which UI to draw and impossible to modify from game code. Zombono uses a new UI system that is designed to rectify this issue – it’s based on the concept of **controls** and **UI scripts.** It is also designed to rectify the severe issues that Zombono-Q1’s UI system had, such as the server depending on variables only the client can possibly understand.

**Contents**

1. **UI Overall Design**

UI is handled and drawn on the client side, with events sent to the server for processing. All UI is handled in C code that calls the **UI\_** client functions (with **UI\_Init** being called to initialise the UI system). Each UI (consisting of a **ui\_t** structure) is created at runtime to reduce overhead related to creating UIs during gameplay. Each UI is made up of a series of **controls** (all implemented in the monolithic **ui\_control\_t** struct, in the array **controls** of a **ui\_t** structure; presently there are a maximum of 32 chara), and **event handlers** that attach to various events.

1. **UI Controls**

A UI control is an individual element of a UI. It must be contained within a **ui­\_t** element via its **controls** array; there are several types of controls that each use parts of the **ui\_control\_t** structure.

* 1. **UI Controls: Text**
  2. **UI Controls: Image**
  3. **UI Controls: Button**
  4. **UI Controls: Slider**
  5. **UI Controls: Checkbox**
  6. **UI Controls: Box**
  7. **UI Controls: Separator**

1. **UI Events & Scripts**
2. **UI Event Handling**