

Menu Driver - Overview

Purpose

The menu driver is a **page-based UI framework** for an embedded display (ILI9341).

It defines:

- how UI is structured into pages
- how state is stored per page
- how navigation works
- how rendering is organized

Architecture Position

```
[ Application Logic ]  
↓[ Menu Driver ]  
↓[ ILI9341 Driver ]  
↓[ SPI / Hardware ]
```

It **does not**:

- own the main loop
- schedule tasks
- interpret input fully

It **does**:

- define UI structure
- manage page lifecycle
- coordinate rendering

1.3 Design Model

Everything revolves around:

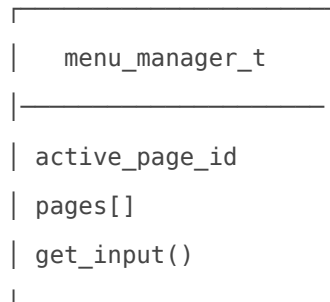


“A UI is a collection of pages with lifecycle and state.”

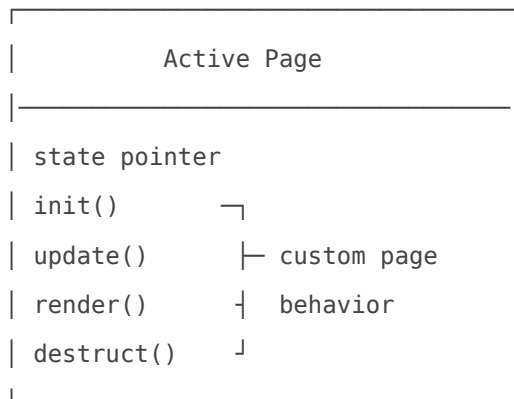
Each page has:

- state
- init/update/render/destruct
- parent relationship

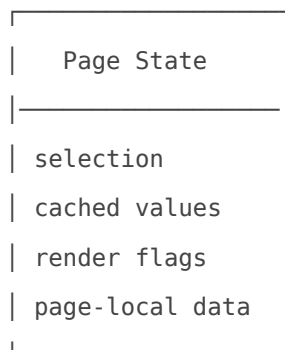
Input / System Events



selects active page



reads/writes



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