MULTY-PLATFORM SCREEN GRABBER

Lorenzo Sciara, Luca Rota, Francesco Grande

Why ICED?

Pros:
- Cross-platform
- Self thread management
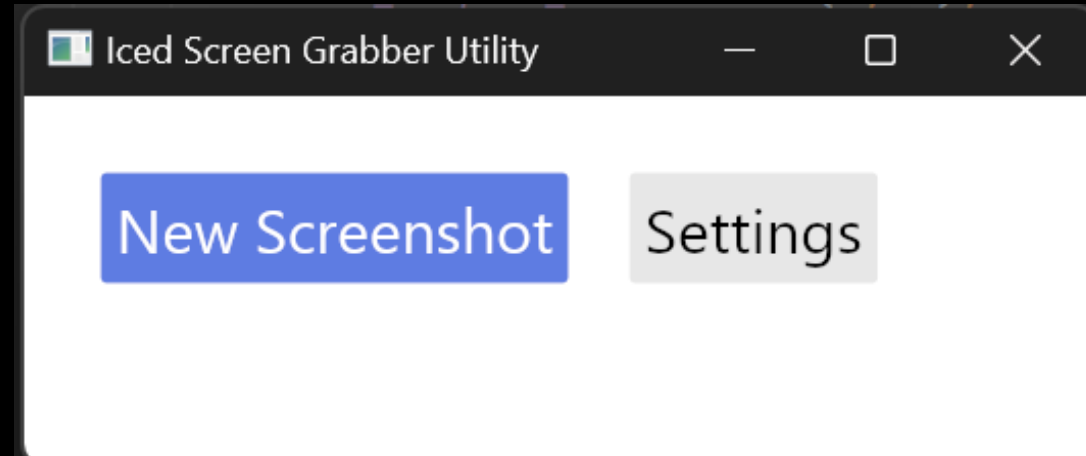- Event capturing
- Userfriendly UI

Cons:
- Very steep learning curve
- Little documentation
- Limited customization

Screenshot Thread

Since Iced doesn't allow interaction with the entire operating system, it was necessary to use multiple threads to make screen capture possible, excluding the Iced window.
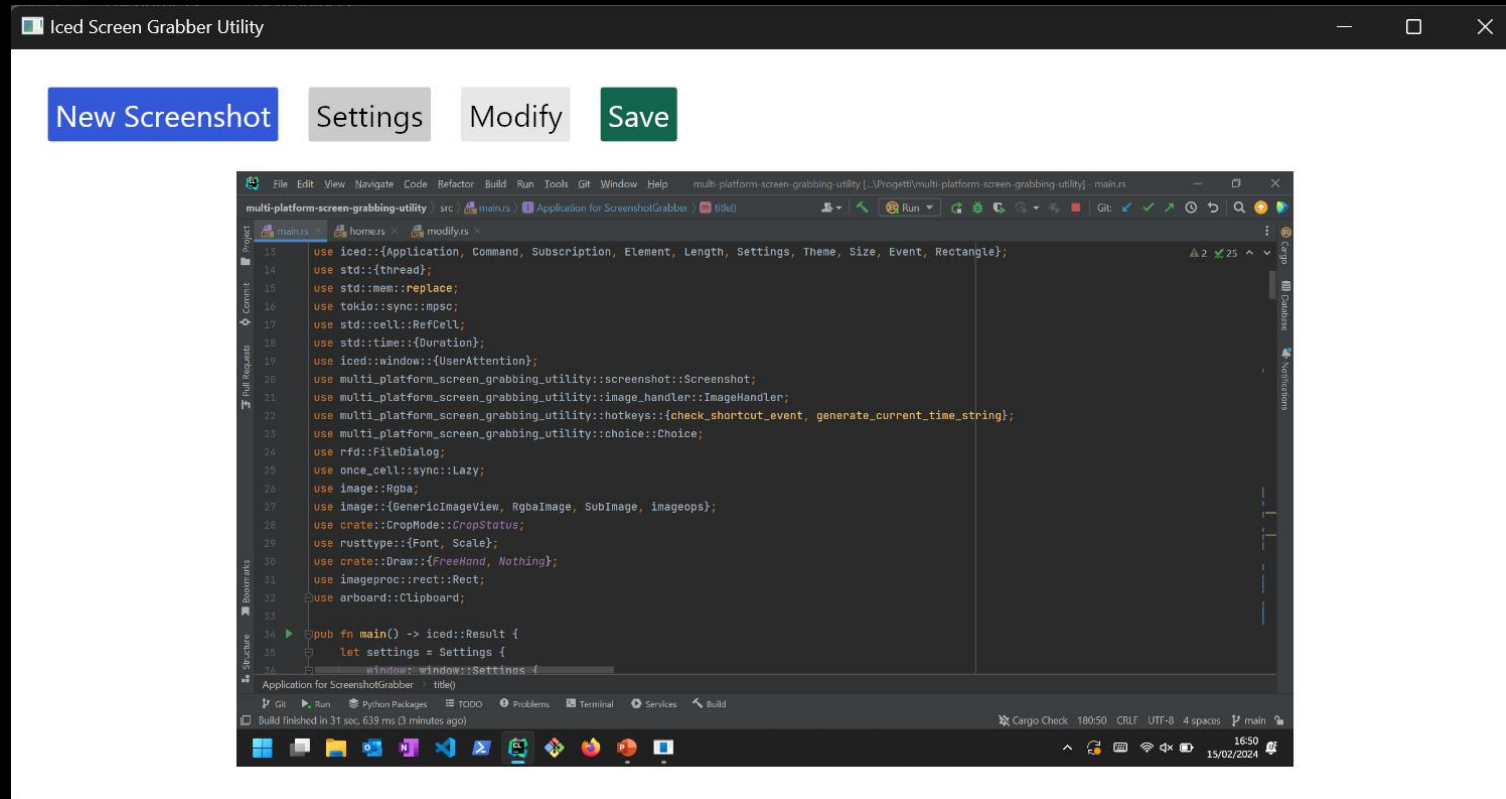The screen grabbed is sent to iced channel.
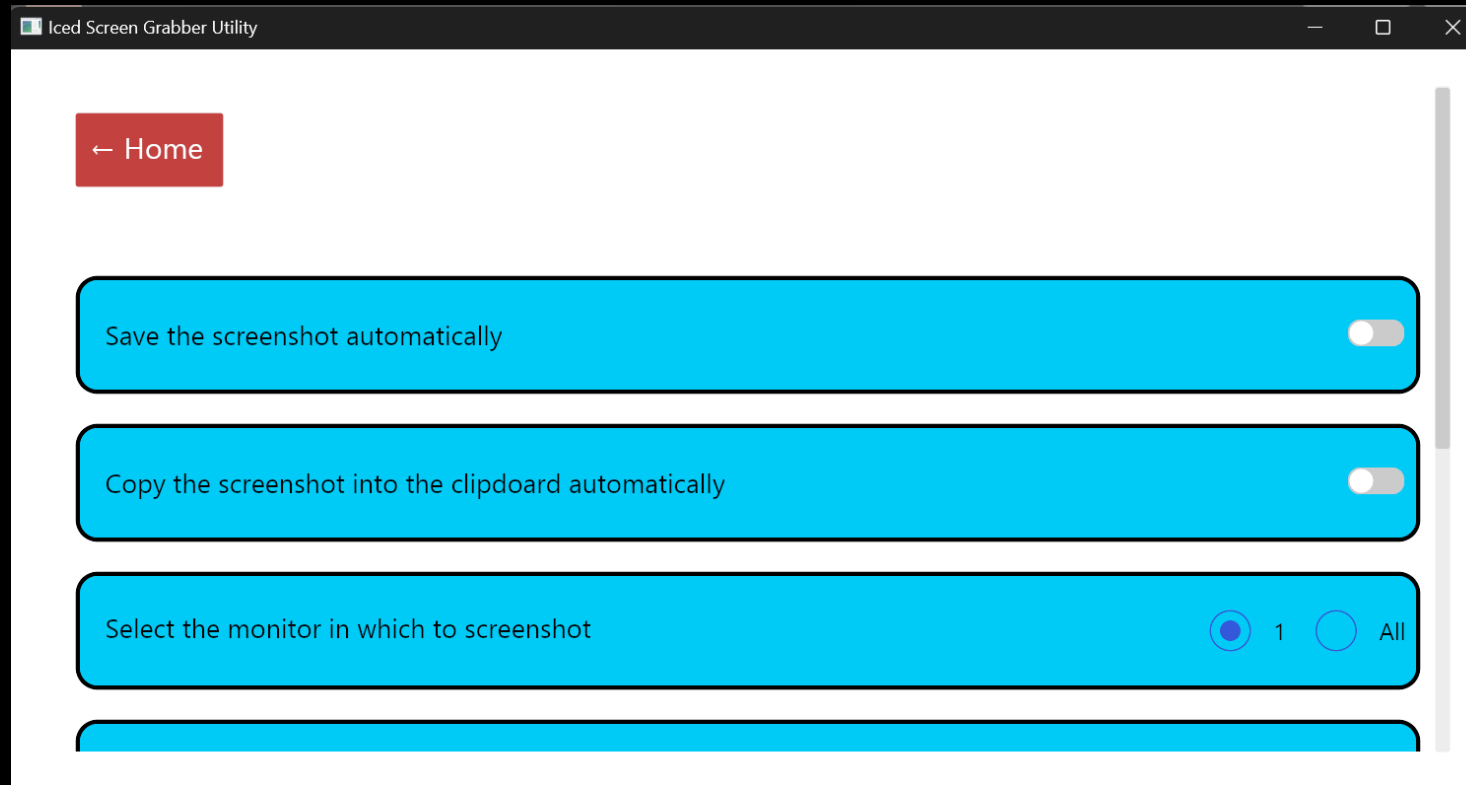
Home

This is the home screen page of the tool, representing the initial state of the application
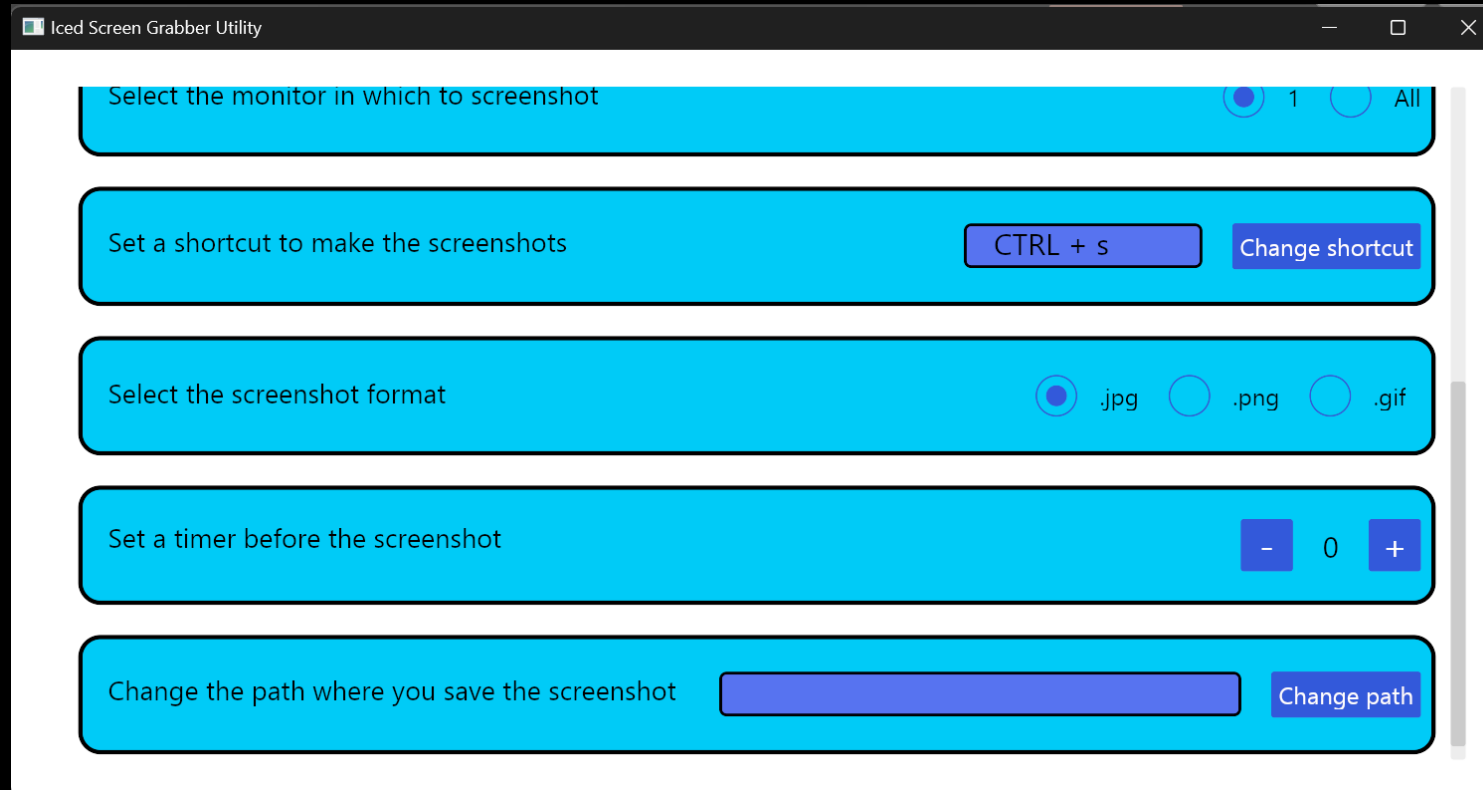
Home

This is the application's home page after capturing the entire system screen

Settings

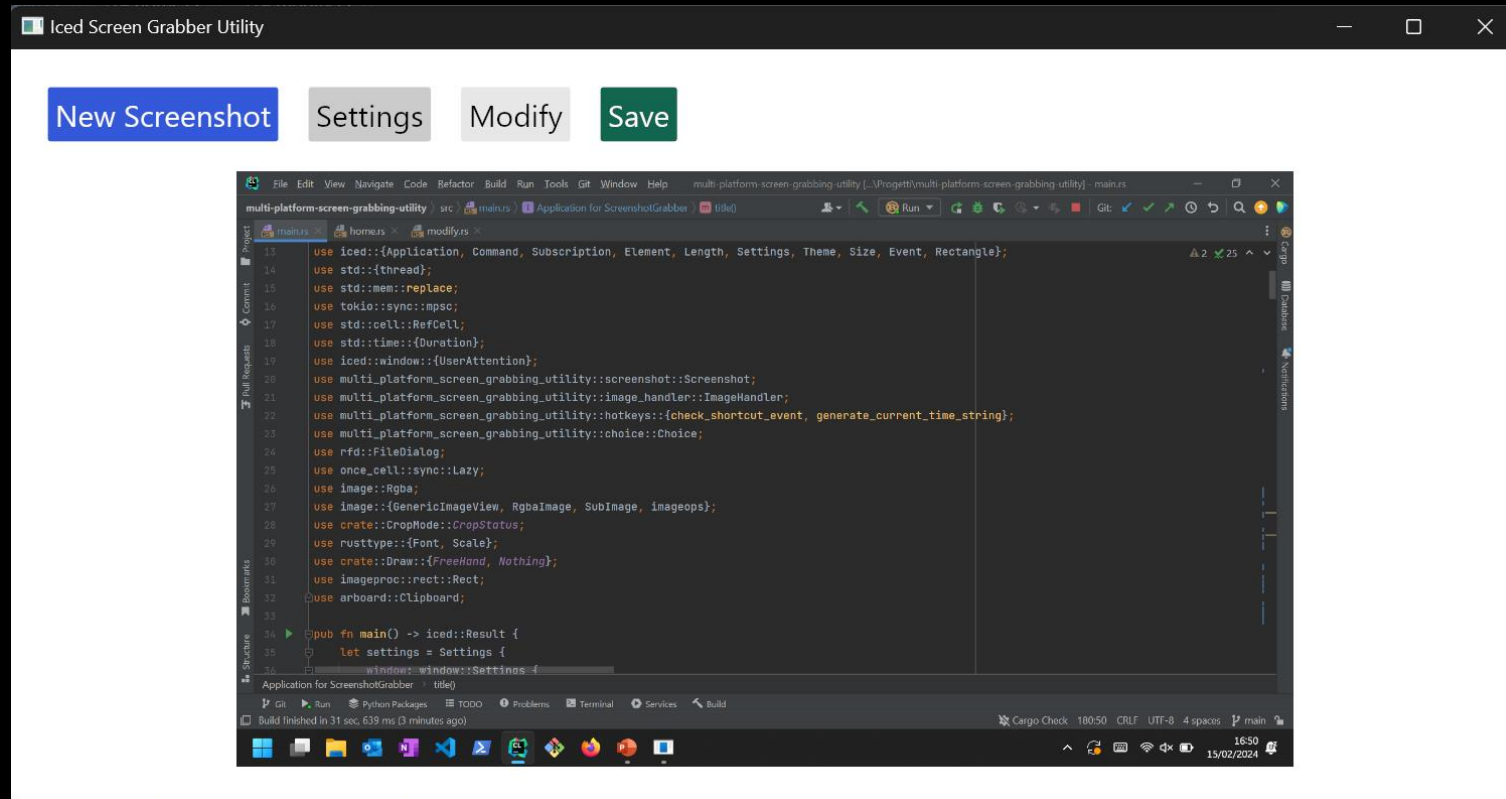This is the settings page where you can select the necessary configuration features
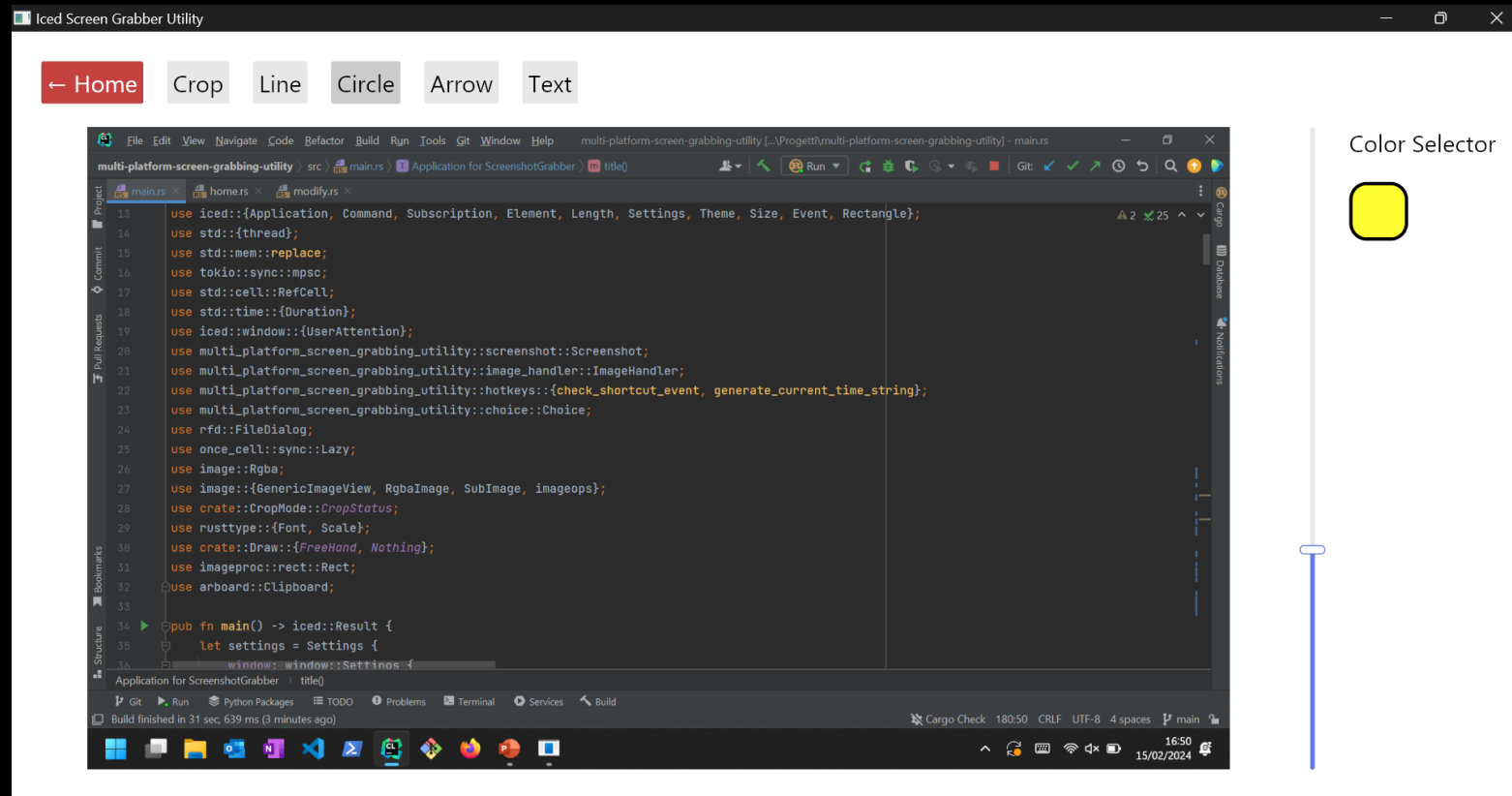
Settings

This is the settings page, which includes some additional features
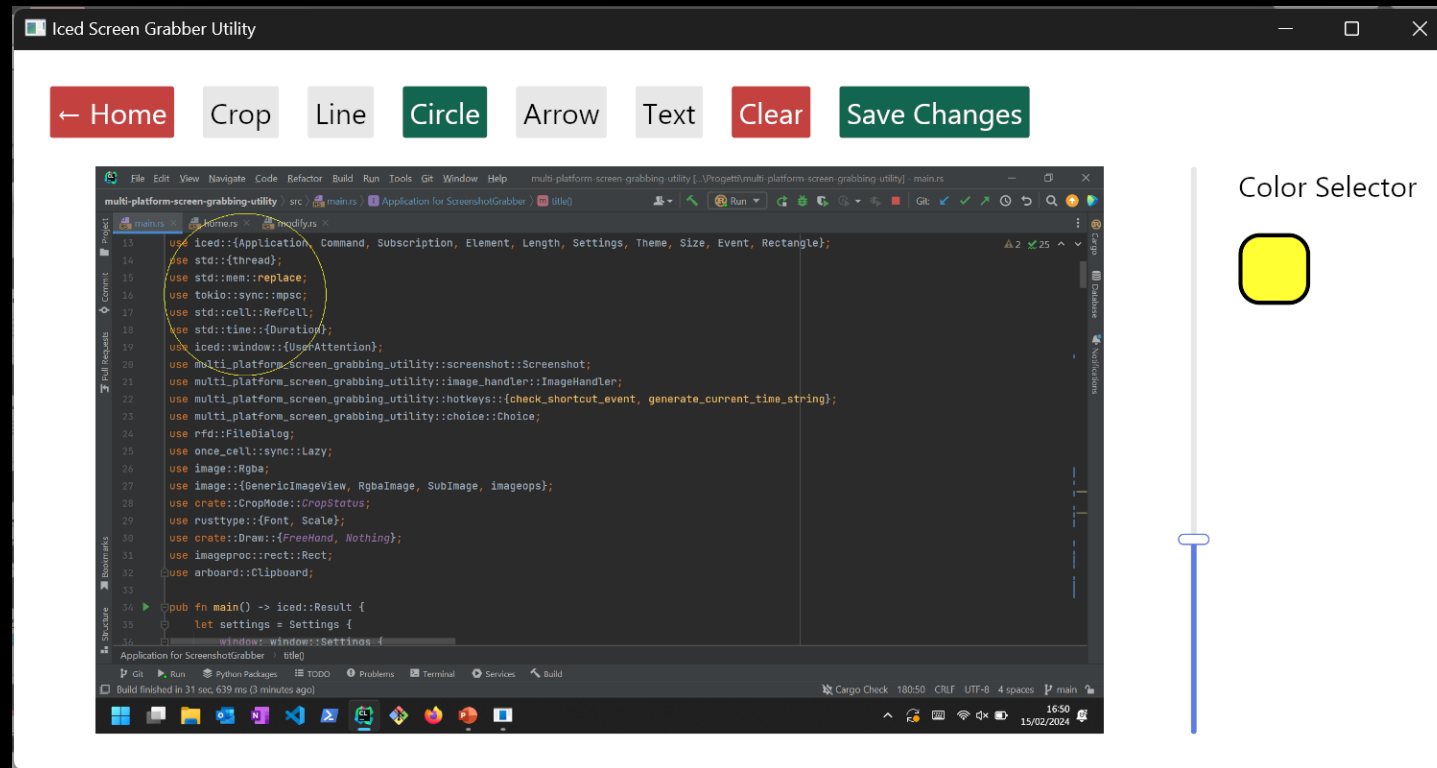
Home

This is the application's home page after capturing the entire system screen

Modify

This is the modification page where you can edit the system image by cropping it and adding shapes

Modify

This is the modified page after the addition of a circular shape

Crates

```toml
[package]
name = "multi-platform-screen-grabbing-utility"
version = "0.1.0"
edition = "2021"

[dependencies]
iced = { version = "0.10.0", features = ["advanced", "image"] }
tokio = { version = "1", features = ["full"] }
image = "0.24.8"
screenshots = "0.8.7"
a board = "3.3.0"
notifica = "3.0.2"
chrono = "0.4"
rfd = "0.13.0"
imageproc = "0.23.0"
once_cell = "1.19.0"
rusttype = "0.9.3"
```

These are the dependencies of the project for frontend and backend