# Overfloat

## An Overlay System for Windows and Linux

Author: Jakub Šediba Supervisor: Ing. Jiří Hynek Ph.D.



### Abstract

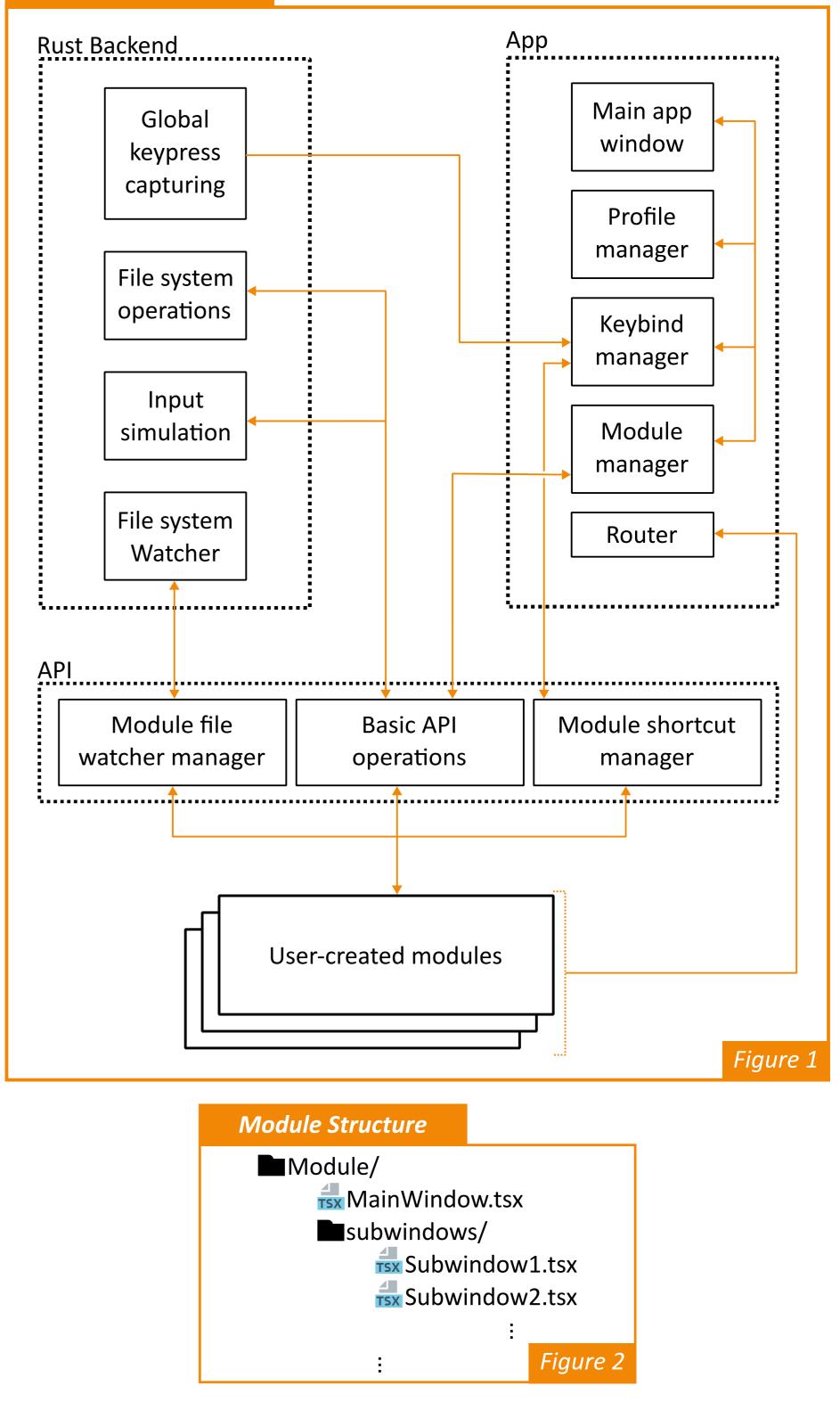
Overfloat is a modular system for the creation and management of overlays for Windows and Linux operating systems. It aims to provide an easy and convenient way to create overlays providing extended functionality for games and workspaces. Overfloat was built using the combination of Rust-based framework Tauri, and the JavaScript library React. This allows users to create multi-window overlays by simply coding the React components that hold the window content.

What this system can be used for:

- Presenting information from external sources in a more convenient way.
- Running subroutines by pressing keybinds.
- Making widget-like applications in TypeScript that run on the local machine.

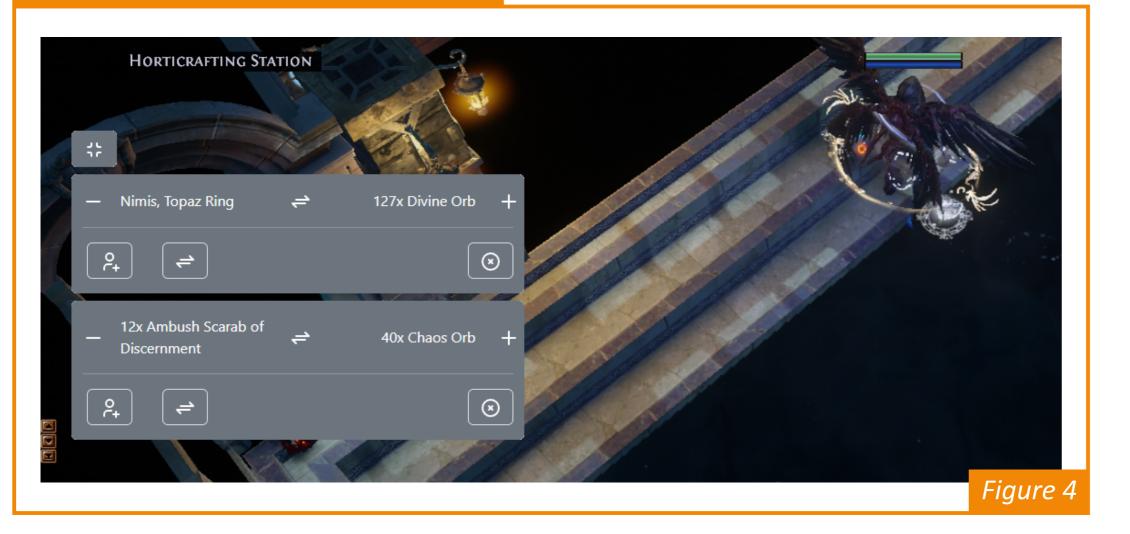
### Module for Log Monitoring

#### System Architecture



C,	Path:	/FIT/Excel/logs	4/12/2024, 5:03:54 PM
×	Path:	/FIT/Excel/logs/status.csv	4/12/2024, 5:03:54 PM
ß	From: To:	/FIT/Excel/out.png /FIT/Excel/results/image27.png	4/12/2024, 5:03:43 PM
	Path:	/FIT/Excel/logs/status.csv	4/12/2024, 4:54:02 PM
÷	Path:	/FIT/Excel/out.png	4/12/2024, 4:54:02 PM
	Path:	/FIT/Excel/logs/status.csv	4/12/2024, 4:45:42 PM
	Path:	/FIT/Excel/logs/status.csv	4/12/2024, 4:42:14 PM
÷	Path:	/FIT/Excel/logs/status.csv	4/12/2024, 4:42:12 PM
C7	Path:	/FIT/Excel/logs	4/12/2024, 4:42:12 PM
			Figure

#### Module for Trading in Path of Exile



#### Features

Overfloat uses a profile system that allows users to store multiple configurations of window layouts and keybind settings. A TypeScript API is provided for module creators, which allows them the easily use the implemented features without having to deal with the backend.

These features are:

- Standard read/write file system operations.
- Monitoring of folders or files with callbacks when changes occur.
- Registering actions for keybind activation. These keybinds are then customisable by the user.
- Ability to simulate mouse and keyboard actions.
- Clipboard manipulation.



