**ABSTRACT**

A smart mirror is a device that functions as a mirror with additional capability of displaying multimedia data, such as text, images, and videos. This device allows users to access and interact with contextual information, such as weather data, seamlessly as part of their daily routine. In this project, we developed SmartReflect—a software platform for developing smart mirror applications. The main features of SmartReflect are threefold: It is modular, lightweight, and extensible;

It allows developers to sidestep the sandboxed environment created by web browsers; and

It supports plug-ins written in any programming languages. These improvements alleviate the hardware and software limitations inherent with the use of web browsers as a primary scriptable display method. In this Project we describe the design and implementation of SmartReflect using Python and compare it with other similar platforms. We also discuss the potential uses and applications of smart mirrors with regard to the new capabilities that our platform provides.

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