

# "Interface Capabilities" Exercise

---

## Prerequisites:

- ["Run the App" Exercise](#)
- [Processing and Validating User Inputs](#)

## Learning Objectives

- Continue to practice installing and running existing Python applications.
- Gain familiarity with the ways users can interact with Python applications, to inform future self-directed "freestyle" project planning and design efforts.

## Instructions

Below is a list of Python applications which demonstrate various user interface capabilities.

For each application you're interested in, follow the instructions in its README document to install, configure, and run it. Also feel free to explore the application's directory structure and file contents as desired.

App Name	Functionality Description	Interface Capabilities	Deployment Capabilities
<a href="#">Rock-Paper-Scissors</a>	A basic game written in Python.	One version accepts user inputs through a command-line interface (CLI), while others accept user inputs through a native GUI.	Needs to be installed and run locally on the user's computer.
<a href="#">Rock-Paper-Scissors (Flask)</a>	A basic game written in Python and implemented as a web application.	Accepts user inputs through a web browser interface.	Can be installed and run locally on the user's computer, or hosted on a remote server for public consumption over the Internet.
<a href="#">Notification Service</a>	Sends emails, SMS messages, tweets, etc.	Scripts are executed from the command-line (CLI), but don't require user inputs.	Can be installed and run locally on the user's computer, or on a remote server where it can be scheduled to perform at regular intervals behind the scenes on behalf of the user (i.e. nightly background job).

FYI: some of these applications may require you to sign up for third-party services to perform the desired functionality (e.g. Sendgrid if you want to send an email, Twitter if you want to send a tweet, etc.). See the respective repository's README file for more details.

NOTE: the Notification Service app might be using an older version of the [sendgrid](#) package (5.6.0) than the one currently referenced in the course repository (6.0.5), so be aware you may see some code that only works with that previous version. If you'd like to create your own email-sending project, use the newer version and defer to [the sendgrid notes](#) in the course repository.