



Agent Academy - Module 1 Assignment

Now that you have an overview of the Open AEA framework and the main components that make up an AEA, it is time to start working with them. We propose a number of activities that will help you get started with the framework.

Note that these activities are for your own consumption and will not be assessed. We remind you that the [Autonolas Discord](#) is available for community support if you are stuck at any point.

Preliminaries:

1. Download the Open AEA framework. Follow [these instructions](#) to install it from PyPI. Start exploring its structure, especially under the folder “packages/”. Try to locate a few of the components discussed in the videos (e.g., Protocols, Connections,...) and take a look at their source files.
2. Explore the [Open AEA documentation](#). You don’t need to read the whole documentation at this point, but it is useful that you familiarize yourself with the docs so that you can easily find help when you need it. We suggest that you pay especial attention to the following sections:
 - Concepts/Agent & component registry,
 - Demos (this will be the focus of the exercises below),
 - Development - Beginner, and
 - Development - Intermediate.

Exercise 1:

In this exercise you will fetch an existing AEA from the agent registry, which simply echoes back messages that are sent through a specific connection.

1. Follow the steps from the [Echo Demo](#) to get the agent up and running.
2. Locate and examine the following components within the “packages/” folder in the repository:
 - The agent configuration file (.yaml).

- The echo Skill that the agent is using: configuration file (.yaml) and source code for its components (Handlers, Behaviours, etc.).
 - Other components outside the Skill that the agent is using (look at the agent configuration file).
3. Try to locate the components and methods that handle a message to be echoed. If necessary, you can try debugging the execution of the agent.

Exercise 2:

This exercise is quite similar to the exercise above, except that we are using an agent with slightly different components. Follow the steps from the [HTTP Demo](#) and follow a similar approach as described above in points 2 and 3. If you feel confident enough, you can try modifying the agent so that it executes some additional action. If you do so, remember that you have to update the hash values in the configuration file.

