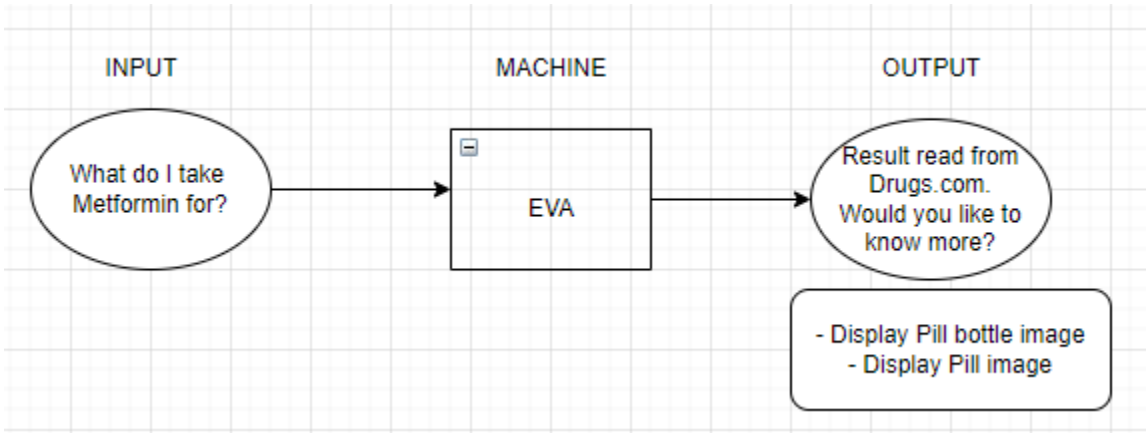
EVA Design Diagrams

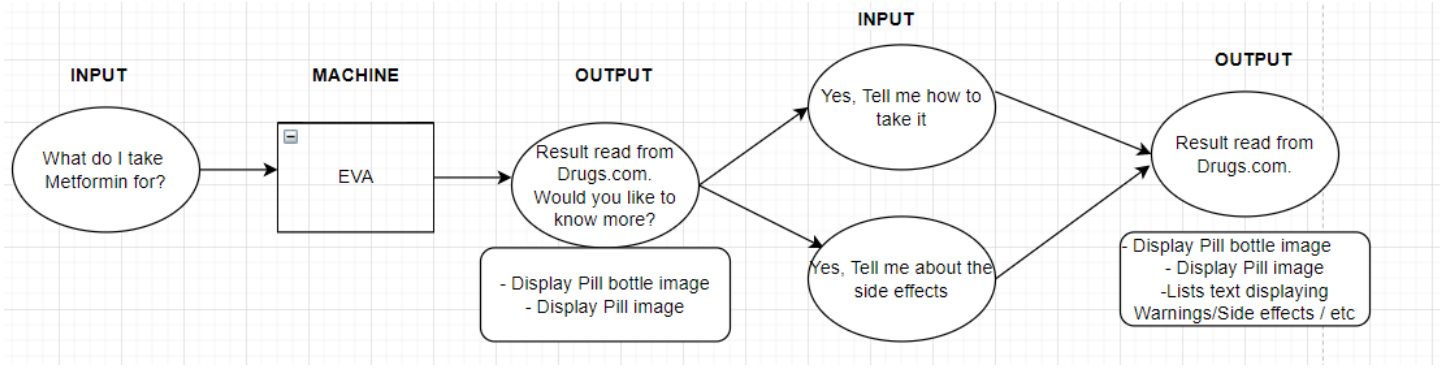
Goal Statement: We are developing a virtual assistant device (EVA) to help elderly people take their medication properly.

Here are some diagrams to showcase one specific scenario of inputs and outputs with our system.

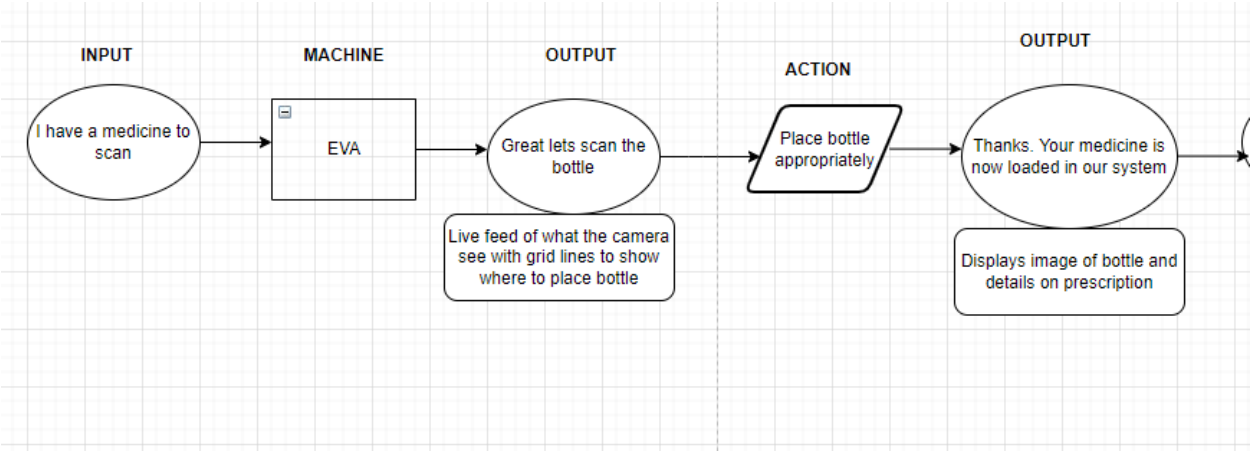
D:0



D1:



D2:



Continues to bottom picture

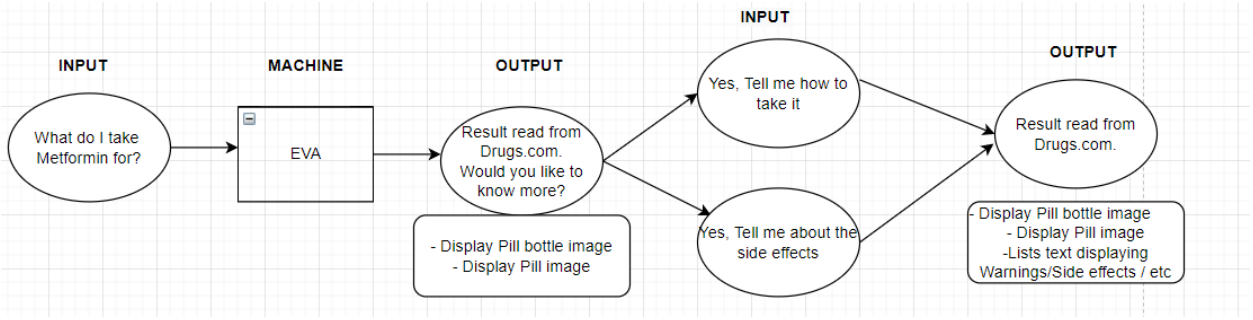
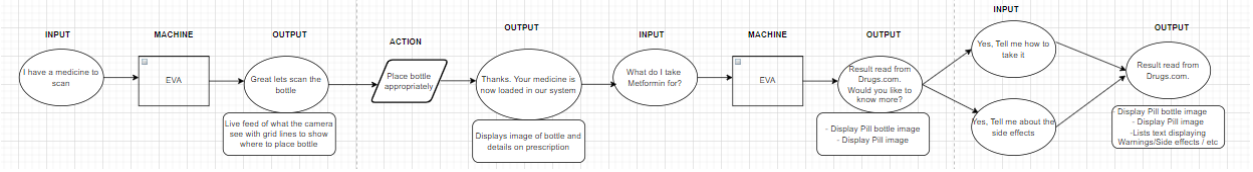


Diagram as whole



In all the documents, ovals mean speaking, from the user (input) or from EVA (output), the rectangle represents EVA, the brains that receive the input from the user generates the output. The rounded rectangles represent what can be seen on the display at the same time the output is being spoken. The trapezoid represents the user taking some sort of action, in this case specifically, positioning the pill bottle in the appropriate position.

For D0: You can see a very basic command, the user wants more information on a medicine that they're taking. They speak and ask the machine for more info. The machine, listens, understands, then looks to Drugs.com, pulls the appropriate information that the user asked for, and recites it back to the user, while displaying images of the bottle on the screen.

For D1: It's the same as D0, but the user can specify exactly what sort of information they specifically want, like warnings, how to take the medication, and side effects. Eva is able to understand the user, make a decision based on what the user inputs, and deliver the appropriate information

For D2: It looks at more of the life cycle of the device as a whole. The user will initially have to scan their prescription bottle and EVA will gather information from it. Then when the user has to take their medicine or asks for information on the medicine, the device can display an image of the bottle, creating a neural link between the medicine name/bottle and how it is helping them.