Vision

Melissa currently accepts voice input from the user, as discussed in the workflow in Chapter 1. It would be great if Melissa could gather information using camera(s). You could use OpenCV for this purpose to add functionalities such as detecting whether a room is empty, counting how many people are in the room, recognizing faces, converting text in photos to strings, and so on.

This would redefine Melissa's current workflow. Figure 9-5 demonstrates how Melissa's workflow might look in the future.

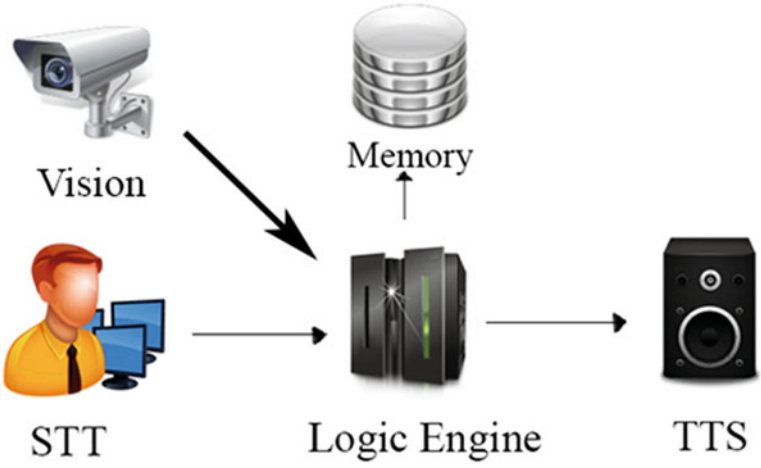

Figure 9-5. *Melissa's possible future workflow*

Melissa would then be able to gather data using vision. This vision feature would go in the `SenseCells` package, and functionalities built on it would reside in the `GreyMatter` package.

Multi-Device Operation

Wouldn't it be cool to have two instances of Melissa running at the same time on different devices but communicating with each other via a server? This would require another piece of software running on a server that handles such requests for devices and connects them using keys that can be requested by a user.

This is easier said than done. It would require quite a lot of programming to build the code for the cloud-based server as well as additions to `Melissa-Core` for handling the requests made to and from by the server code.