

Agilent Technologies, Inc. produces radio frequency (RF) and microwave network analyzers, as well as various other types of measurement equipment. This equipment ranges from the small scale to devices that can cost upwards of \$100,000. Over the years, Agilent has produced a large collection of sample measurement automation programs and program snippets, stored on a Microsoft Share Drive, that are used to control the equipment that their company manufactures. The problem is that these shared drives have little to no logical file structure and it is very difficult to find necessary programs. Often only a few people are relied on to find the necessary programs and in the worst case the program cannot be found and is rewritten, assuming that it already existed. This creates inefficiency in the company and possible loss in business due to frustrated costumers.

The client's first and primary requirement was a system that allowed for fast, easy, logical searches of the data stored in their Microsoft Share Drives. The implementation chosen consists of a Spider program, written in Ruby, to parse the data on the drives, and a web front-end, written in Ruby on Rails, to display and allow for searches of the information.