

Section I: Overview of the File System

This document is intended to outline how the files that store the providers, members, service records, reports, etc. are organized in the program. First, all of the files have a root directory called “ChocAnFiles” with its contents shown below:










 EFT_Reports	12/3/2015 10:27 PM	File folder	
 Members	12/3/2015 10:26 PM	File folder	
 Output	12/3/2015 10:27 PM	File folder	
 Providers	12/3/2015 10:26 PM	File folder	
 Summary_Reports	12/3/2015 10:27 PM	File folder	
 ChocAnParameters	12/3/2015 10:28 PM	TXT File	1 KB
 MemberNumbers	12/3/2015 10:28 PM	TXT File	1 KB
 ProviderNumbers	12/3/2015 10:28 PM	TXT File	1 KB
 ServiceRecords	12/3/2015 10:28 PM	TXT File	0 KB

Figure 1: Contents of the “ChocAnFiles” directory

In this directory are several other directories. The “EFT_Reports” and “Summary_Reports” directories store all of the generated EFT reports and summary reports, respectively. The “Members” and “Providers” directories store the personalized directories of ChocAn’s members and providers, respectively. The “Output” directory stores the program output from the “DisplayTerminal” that shows all of the members, providers, and service records that are currently in ChocAn. Finally, the text files “ChocAnParameters,” “MemberNumbers,” “ProviderNumbers,” and “ServiceRecords” store the data center’s current date and time, the member numbers, provider numbers, and all of the service records that are currently on disk, respectively. Let us now take a look at one of the report directories: we’ll use the “EFT_Reports” one (Summary_Reports is identical).




 Reports for 10-31-2015 to 11-06-2015	12/3/2015 10:27 PM	File folder	
 1	12/3/2015 10:27 PM	TXT File	1 KB
 Main	12/3/2015 10:27 PM	TXT File	1 KB

Figure 2 (from top down): a) Inside the “EFT_Reports” Directory. b) Inside the “Reports for 10-31-2015 to 11-06-2015” directory

We see that the reports are organized as directories with names corresponding to the dates that indicate the start of the week (Saturday) to the end of the week (Friday) with respect to the data center’s global date. Inside these date directories are text files containing the report. Files having the numerical digits as names (e.g. “1.txt” in Fig. 2) are *manager-generated* reports, while the text file corresponding to “Main.txt” is the *weekly-generated* report. All of the four reports are formatted in this manner. Moving on to the “Output” directory shown below:




 CurrentMembersList	12/3/2015 10:27 PM	TXT File	2 KB
 CurrentProvidersList	12/3/2015 10:27 PM	TXT File	3 KB
 CurrentServiceRecordsOnDisk	12/3/2015 10:27 PM	TXT File	5 KB

Figure 3: Contents of the “Output” directory

The files “CurrentMembersList”, “CurrentProvidersList”, and “CurrentServiceRecordsOnDisk” output the data center’s current members, providers and service records in a more user-friendly fashion. Now let us show the contents of the “Members” directory below:

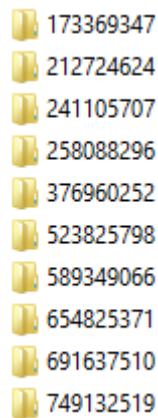


Figure 4: Contents of the “Members” directory

The names of the directories in Figure 4 are simply the member numbers of the current members in ChocAn. Every time a new member is added, a new directory with that member’s number is created – the “Providers” directory contains the same directories except they are named under the provider numbers. Note that removing a member does not delete that member’s directory: the reason I did not want to do this is that they could still have services on record for that week, and hence it would make sense to generate a member report for that member. Therefore when removing members, it is up to the user (for now) to manually delete that corresponding member’s directory from the system. Let us now examine one of these personalized member directories to see its contents:



Figure 5: Contents of directory “173369347” in Fig. 4

Each member directory contains a text file “Info.txt” that stores the relevant member information (e.g. name, address, membership status) for the data center to read at initialization and then write back to once it exits. The “Reports for 10-31-2015 to 11-06-2015” stores all of the member reports generated during that week, both manager-requested and weekly-generated ones. Now let’s examine an individual provider’s personalized directory to describe what it contains:

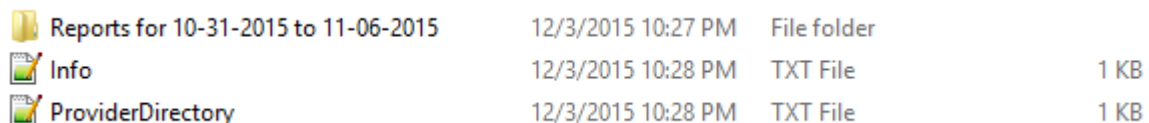


Figure 6: Contents of a personalized provider’s directory

The contents are exactly the same as in Fig. 5, except we’ve included an additional text file “ProviderDirectory.txt” in order to store the services offered by that provider – for reading and writing the data center’s state. That is it as far as the file overview is concerned – this sample output is also provided with the code under “SAMPLE OUTPUT” for you to see what’s in the individual text files.

Section II: Using the Program

The code comes with a sample set of pre-defined members, providers, services and service records for you to use (I'd recommend looking at them if you're a fan of rock music). But if you wish to start the program from a blank slate, please be sure to delete any directories named "ChocAn" that comes with the code; the program will know that it's beginning from a tabula rasa. **Please do not alter any of the files** after the program exits in order to guarantee that it will read its previous state back when it is loaded again (including path names). Also, all of the file path variables are contained in the FileUtilities class, so should you wish to change any of the file names (prior to initializing a blank data center), feel free to do so. Note that so long as FILE_LOC has a valid path that leads to some directory, the program is able to generate all of the other files from this path.