

Scenario Walk-Through

As the user starts running the program, we step inside the main loop in Driver. After initializing DataManager, CommandExecutor, and all commands, it attempts to deserialize a local "system.ser" file to populate the system with pre-existing entities. DataManager finds no such file, so we start with a new empty system. Then, inside a while loop, it prompts the user for commands. The user decides to create a new task by typing "newtask;csc207 project phase 0;2021-10-15;due very soon, hurry" into the console. The Driver lets CommandExecutor execute the command, passing in DataManager as a DataAccessor. It first checks whether the user typed a valid command name; then it calls the execute method of the corresponding Executable object (NewTask), passing in DataAccessor and user-specified parameters separated by ";". After checking whether the arguments are valid, a new Task object gets added to Inbox. A message confirming that the task has been created successfully gets returned back to Driver and printed to the console. Then the user exits the program by typing "exit". We break out of the while loop in the main method, and DataManager saves data using serialization.