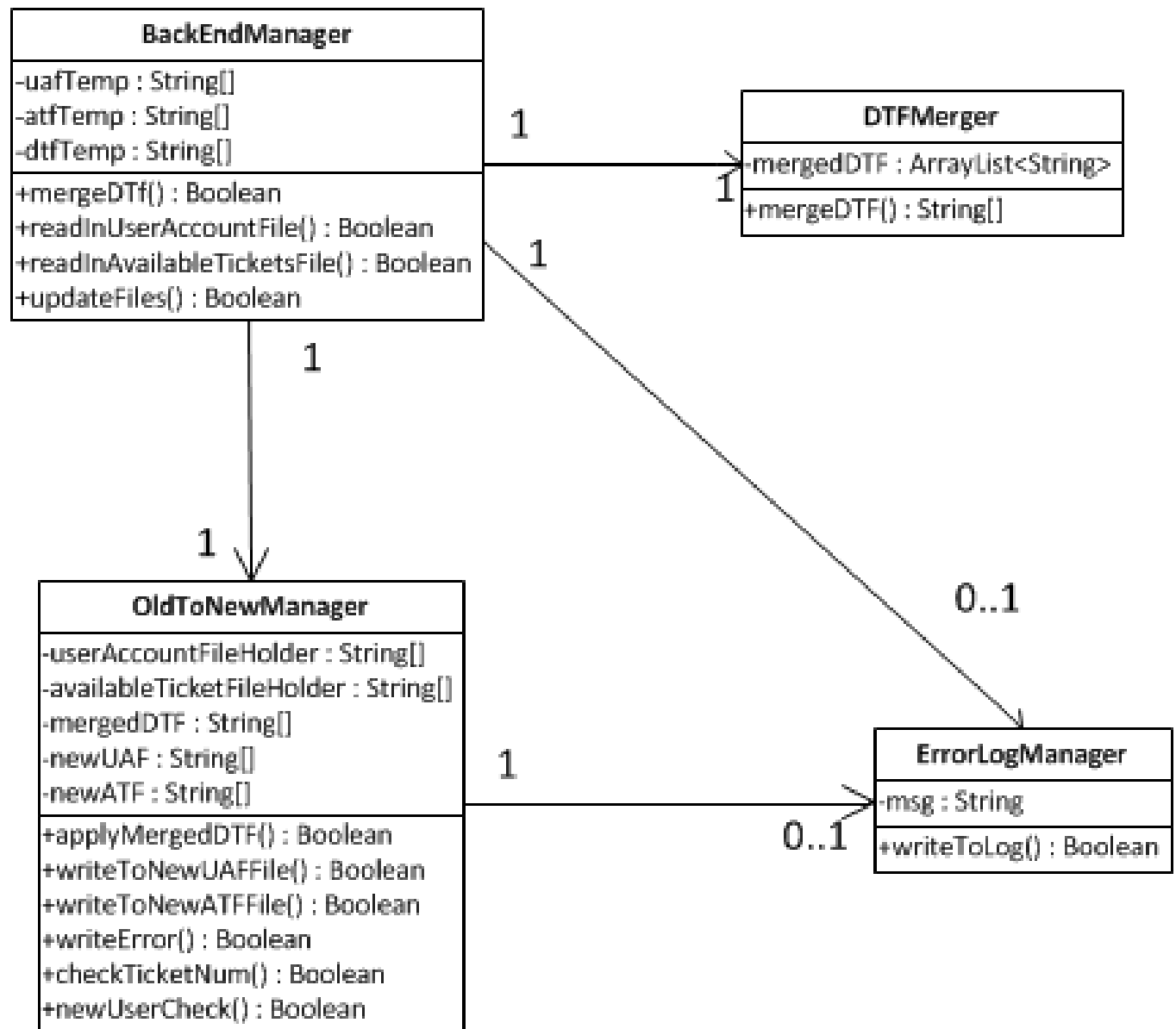


## Phase 4 – Design Document – Group 12



<b>BackEndManager (Class)</b>	This class is the main backend class; it is the top of the hierarchy and everything should be created from this.
<b>mergeDTF()</b>	A method for merging all the daily transaction files. DTFMerger is used here.
<b>readInUserAccountFile()</b>	A method for reading in the User Account File.
<b>readInAvailableTicketsFile()</b>	A method for reading in the Available Ticket File.
<b>updateFiles()</b>	A method for creating an instance of OldToNewManager and using its methods.

<b>DTFMerger (Class)</b>	This class is used to create an array of strings, used to hold each of the Daily Transaction Files.
<b>mergeDTF()</b>	A method for actually merging the files.

<b>OldToNewManager (Class)</b>	This class is used to apply the changes to the files/write new ones.
<b>applyMergedDTF()</b>	A method for applying the data in the merged Daily Transaction Files.
<b>writeToNewUAFFFile()</b>	A method for writing the new User Account File.
<b>writeToNewATFFFile()</b>	A method for writing the new Available Tickets File.
<b>writeError()</b>	A method for creating an instance of ErrorLogManager and writing an error.
<b>checkTicketNum()</b>	A method for checking the negative ticket number constraint.
<b>newUserCheck()</b>	A method for checking the new user's username constraint.

<b>ErrorLogManager (Class)</b>	This class is used when an error is found and it handles what should happen.
<b>writeToLog()</b>	A method for writing the appropriate (fatal or constraint related) error to the terminal.