CSN08116 :: Coursework Documentation  
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| Method Name | Method Description |
| **display\_title** | Expected to take in no arguments and displayed the opening title to the user – only used within the initial boot of the program. |
| **display\_ui** | Another method which expected to take in no arguments. This is displayed after most operations where the user interacts with the program. |
| **prompt\_user** | Also taking in no arguments, this function will ask the user for a numeric value. |
| **check\_numeric** | Taking in 1 argument - the user’s input - which is checked if the value entered is numeric. If the value entered is not numeric, the user will be met with an error message and will be re-prompted until a number is entered. |
| **error** | This function is expected to take in a string which is parsed as a single argument and displayed to the user as an error message if there is an unexpected input. |
| **list\_running\_jobs** | Taking in no arguments, the function displays all running cron jobs to the user which run on their profile. |
| **insert\_cron\_job** | This function takes in no arguments but is called when the user enters ‘2’. Takes in multiple values to write to a cron file - which is created if it doesn’t exist. |
| **remove\_cron\_job** | Similar to the insert function above, this function lists all current running tasks to the user and removes whichever item the user requests. |
| **edit\_cron\_jobs** | This is an advanced function that I felt like adding in. This function just allows the user to add a cron job if they know the syntax or are curious and wish to know/ learn the syntax of crontab. |
| **remove\_all\_jobs** | As the name of the function suggests, this function removes all jobs from the machine for the current user. |
| **quit** | Again, this function does exactly as this name suggests and automatically quits the program when called. |
| **is\_invalid** | Taking in 2 parameters, this function will check if the value you’re trying to enter is valid for crontab (‘\*’, 0-59 etc.). |
| **input\_error** | This function makes use of the 2 parameters passed into is\_invalid is called to return an error to the user reminding them of the valid inputs for their current entry stage |

**Task Distribution**

**Stewart**  
I began the initial layout for the coursework and started off by designing the title and main UI prompt through ASCII. This is where I proceeded to implement colours and create my table-like design which was inspired through my use of MySQL. Post-design, I began to work on the 2 basic functions of listing and removing all cron jobs as well as the quit & error functions.  
  
After a week or so had passed, another member of the team started to work on the insert, removing and edit functions of the coursework, we got a bit stuck until I had implemented file I/O (which originally was Robert’s idea, but scrapped it). This re-enabled us to continually test and edit the script as we saw fit.  
  
Prior to hand-in, I have been working on the listing function to make it completely easy and simple for the beginner user to read and I have also been adding in small details such as displaying a message to the user to inform them all of their cron jobs have been removed.