

Team Carpo:

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GitHub: <https://github.com/Hulcalan/TeamCarpo/tree/master/src/icsOutput.java>

DemoVideo: <https://youtu.be/rfvtezlx1Ew>

## ICal Project

We designed our system so the user could input numerous event entries back to back. We created a GUI class as a driver, an Event class that contained the information, and a linked list class that would contain the calendar of events as a whole. What we should have done is used the linked list class solely for organizing the events as they were read in and for calculating the Great circle distance. We were under the assumption that the user would have to enter in multiple events until the user was finished. We found out this was not that case and did not have time to correct this issue. That being said the code itself is able compartmentalized and used in a larger system, with some potential minor fixes. Despite these shortcomings our program outputs proper data, calculates the great circle distance and uploads to Google calendar successfully.

Testing, was not a daunting task. Tests for the GUI, we scripted a test plan. The way the program is coded, the GUI itself executes some error checking and prevents incorrect inputs. The most thorough and effective way to test the GUI is by hand. Considering our GUI minimized user error to 0, we could focus on testing the other classes. The goal of our testing was to ensure correct labeling, usability, and ability to prevent incorrect input by the user. Testing for criteria such as proper format of an ics file and specific method functionality was accomplished via junit testing. With junit testing, we tested for everything from Null pointer exceptions to invalid input entry, for all methods in the event and linked list classes. All tests came to a successful result.