Abstract

• Develop a user friendly interactive tool to browse complex Apollo mission data
• Synchronize audio tracks, images, and relevant statistical information
• Allow user to choose level, depth, and kind of information to review

Architecture

• Database links the data to a time and perspective
• System allows user to view information dependent on the MET (Mission Elapse Time) and perspective selected
• Metrics run JSON files utilizing the D3 library
• Multiple perspective tracks with mission audio
• Timeline to jump to major events
• Information visualization to analyze small portion of mission data

Impact

• Allows digitization of large volumes of Apollo 11 data
• Platform available to public for study and research
• Metrics section utilized to render graphical representation, allowing for greater understanding of data
• Increase kids’ interest in STEM
• Data can be used for behavioral research

Results

Summary

The team was responsible for creating a digital repository of the NASA Apollo 11 archives that can be used for STEM education, research, and museum displays. The team also developed information visualization of statistical data to be displayed in an intuitive manner. We created a website that displays audio and photos attached to a MET and perspective while also creating a platform that future teams could build and expand upon.