

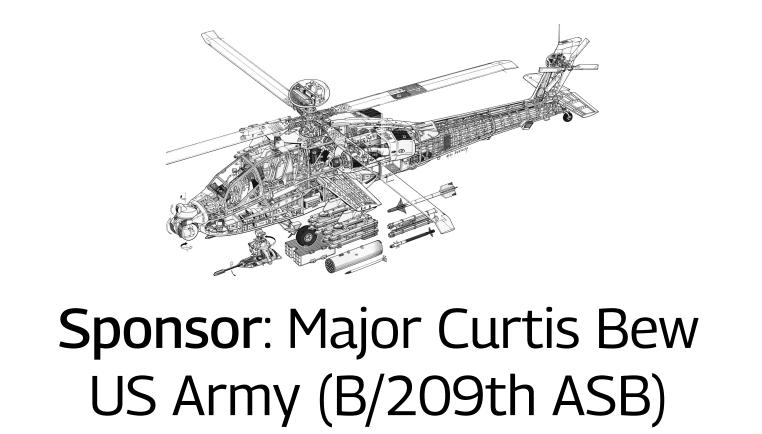




# AIRCRAFT PHASE MANAGEMENT SYSTEM

Ana Catarina Araújo, Jingzhe Feng

ICS 496, Spring 2023 Information and Computer Sciences Department - University of Hawai'i at Mānoa



#### INTRODUCTION

**PROBLEM**: Today, the aircraft inspection is managed using Excel sheets and paper, which creates an aircraft backlog and restricts its usage.

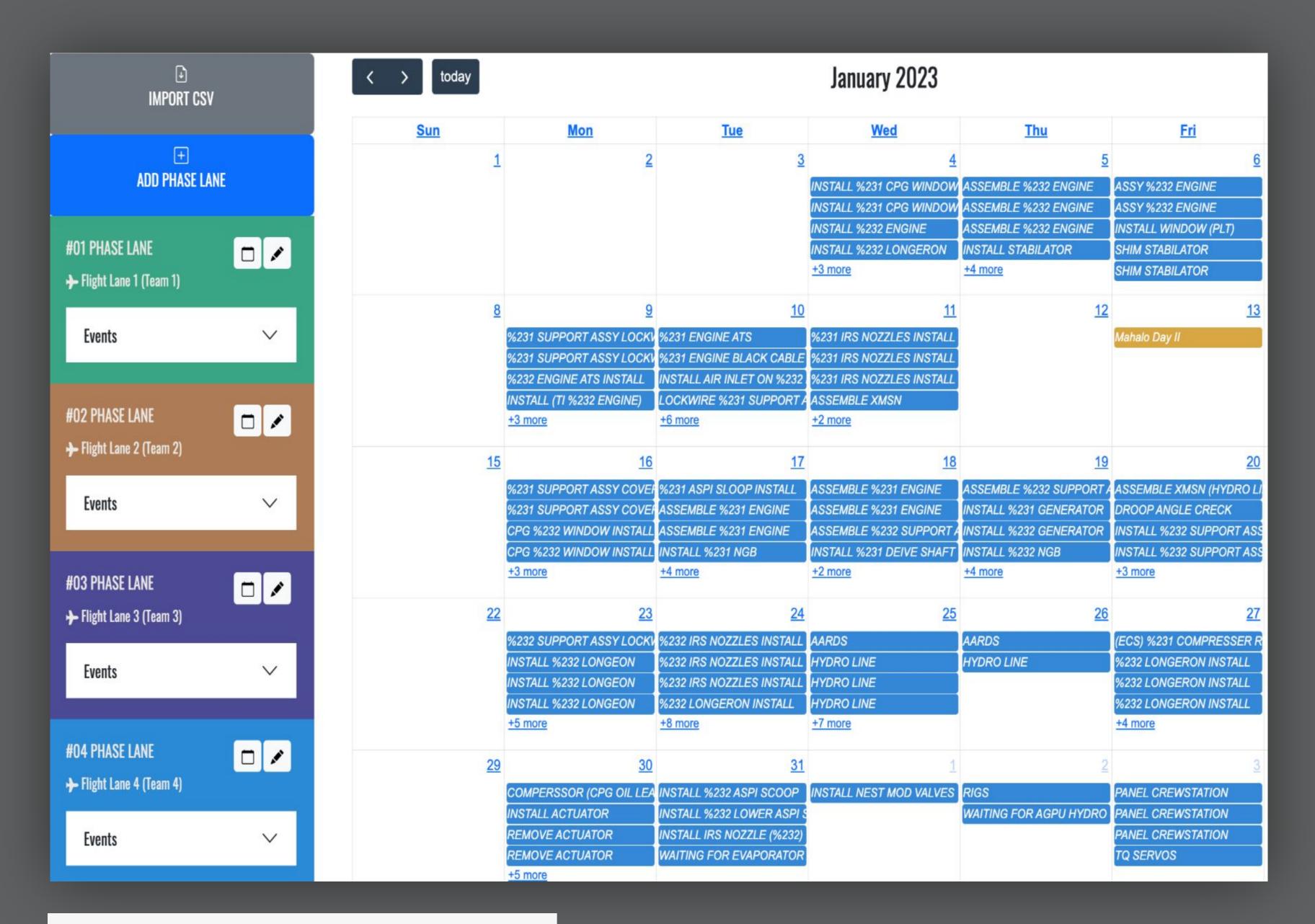
**SOLUTION:** Intuitive, Effective and Simplified Design. Our application values making the user's experience as easy and seamless as possible by considering the user's goals, using familiar patterns, and providing immediate feedback when they perform an action.

### **ACCOMPLISHMENTS**

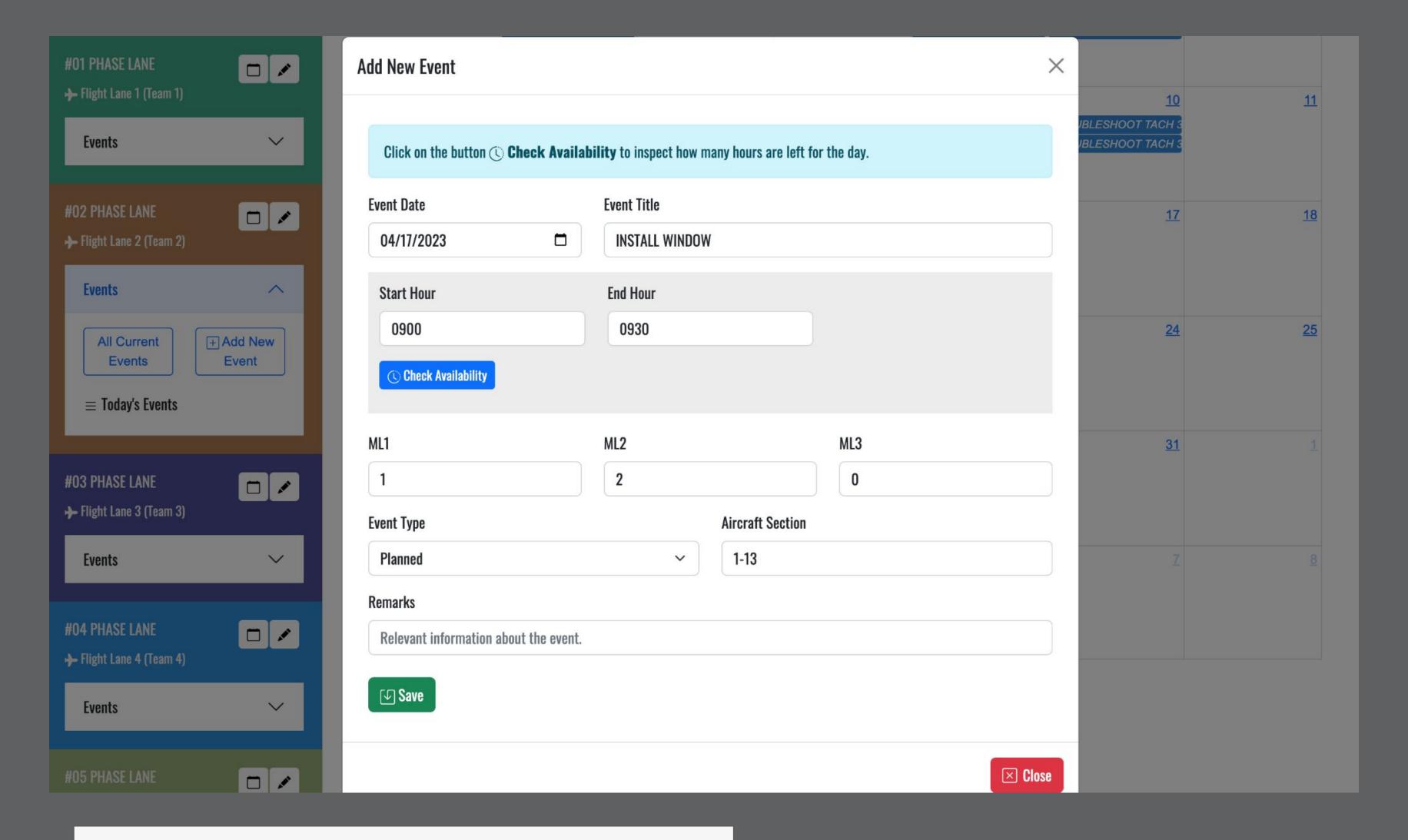
- Timeouts Page
- Users are able to create new holidays, training days, and "mahalo" Fridays.
- Display all timeouts and filter by title.
- Edit and delete existing timeouts.
- Phase Lane Sidebar
- Users can create new phase lanes, edit them, and delete them from the main page.
- Each phase lane has a calendar and page containing its own events.
- Events

Users can create new events by including the date and other fields. After that, a report is generated with information about the hours used or if a time-out date was found.

- Import File (.csv)
- Users can import files with a list of events.
- If the date of any event is a holiday or weekend, the date is edited to the next working day.



MAIN CALENDAR PAGE



CREATE NEW PHASE LANE EVENT

# TECH STACK METE R React

### **PROCESS**

**Visiting**: We visited the Schofield base to gather more information about the project.

Planning: Then, we identified the requirements by brainstorming ideas and creating a project plan.

Adding Functionality: We worked on making the app functional while improving the logic as needed. to meet the needs of its users.

**Testing**: And finally, we created user cases to ensure the app works correctly.

## **NEXT STEPS**

- Create new functions on the calendar, such as being able to drag and drop events.
- Have more options for timeline views (daily, weekly, and monthly).
- Enhance test automation to include forms for each modal.
- Improve the man-hours availability report on the calendar.