Abstract
Hangar is an open-source hackathon management platform developed by American Airlines. Throughout the semester the UTD capstone team collaborated with a group of American Airlines developers to help them further develop Hangar. The team adopted an agile development strategy, prioritizing and categorizing issues based on a two-week implementation schedule. Assigned issue topics ranged from frontend development, backend development, discord/slack integration, testing, and documentation. The team’s UT Design project completed in a six-week timeline aims to enhance the user experience of setting up Hangar. The project consists of the creation of a setup page, which is meant to be used by the user when configuring the app for the first time, and a ‘Hangar for Dummies’ page that gives user detailed navigation through app setup.

Keywords: UI/UX, Agile Development, Documentation

Architecture
Frontend - React.js
- Docsify

Backend - Node.js
- Express

Database - PostgreSQL

Testing - Jest

Impact
Hangar is designed to be easy to use and enjoyable for everyone. Our project contributes to this design principle by providing a simpler setup process to the user.

Before
- App didn’t start if any of the required configuration entities were missing. User had to directly set these values in the database
- Setup instructions consisted of a simple markdown with few visuals

After
- App can start without any configuring entities and there is a setup page to set these values
- “Hangar for Dummies” page acts as a full user setup guide with visuals

Results
Setup
Enter your respective values for the configuration items below, then press submit.
If using Slack, leave Slack fields blank.
If using Discord, leave Discord fields blank.

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Full User Guide with Visuals

Performance
- All undertaken tasks completed.
- Initial estimate of 20 tasks was cut significantly in favor of tasks with larger scope.
- All functional expectations met.
- Content of each task considered valuable by team and company.

Summary
- Removed the need for certain external tools to begin using app
- Overhauled and streamlined app setup
- Created a full installation guide for lay users that requires zero technical knowledge
- Helped overhaul testing suite to minimize future tech debt