

PROJECT BRIEF

Client:	AOPA executive	Deadline:	October 10, 2020
Project Name:	Mobile App for Navigation Log Form	Author:	Taiwo Adekanmbi

THE ASK

What is the objective of the project?

Here you need to define the problem: the need statement that you have chosen to address, the target audience (who the apps users will be)

And describe your solution: what your mobile app will be and how it meets the need statement

Need Statement

The pilot 'needs a way' to get the flight planning done speedily 'so that' he could fly freely

Solution

There needs to be a mobile app automatically fills a digital navigation log form with possible wind changes to correct flight movement pattern, ongoing weather forecast and plane checkup (fuel, engine, controls etc.) by just writing the aircraft number and locations the pilot wants to arrive at.

This can aid the pilot to immediately know the direction he going to, the obstacles he will face with weather and wind changes, how to overcome them and if the plane is safe for flying. Then he can fully enjoy the experience of flying with minimum uncertainties.

What are the deliverables?

Here you need to define your minimum viable product - exactly what it will include (you should include the number of screens and what would be on each screen).

And describe your three additional features - exactly what they will be (and whether they will be embedded on existing screens or if they will add screens to the app). List them in order of priority.

Minimum Viable Project-One screen

Screen

Filling aircraft number, present location and destination

Proper route path- is a description of the path followed by an aircraft when flying between airports, point of origin/departure to point of destination. The particular route to be flown determines the ground distance to cover. Distances are nearly always measured in nautical miles.

Suggested Checkpoints and Distances of the Various Checkpoint- A location whose exact position can be verified visually or electronically, used by pilots to aid navigation or prevent being lost. Calculate the distances of various checkpoints.

Additional Features

Course Calculation- the course of a watercraft or aircraft is the cardinal direction (the directions north, east, south, and west) in which the craft is to be steered. The Course Calculation emulates the capabilities of the E6B Circular Slide Rule. It will be added to a 2nd Screen

Fuel- Calculation of fuel requirements (especially trip fuel and reserve fuel), Rate of fuel burn will be added to a 2nd Screen

Weather forecast- The air temperature affects the efficiency/fuel consumption of aircraft engines. The wind may provide a head- or tailwind component, which in turn will increase or decrease the fuel consumption by increasing or decreasing the air distance to be flown. It will be added to a 2nd Screen