

WDFT Final Project

Project Title: Heli-info
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NOTE: REPLACE ALL BLUE PARTS OF THIS DOCUMENT WITH INFORMATION RELEVANT TO YOUR PROJECT

Project Overview

1.1 Description

An app that focuses on Canadian military helicopters. To share information and knowledge about helicopters while also wanting to say Thank-You to all those that serve; in past, present, and future.

1.2 Problem

Our service people do not receive enough recognition and Thanks for what they've done for the country.

1.3 User Profile

*-End user: people interested in helicopters, and what the military has currently.
-Application use: web-browser, and maybe a mobile app.
-Special considerations: content and information must be as accurate as possible; and, use of proper word choice since the purpose is to spread information and Thanks.*

1.4 Requirements: Use Cases and Features

A list of the functionality that your project will implement to solve the above problem. Can be written as user stories (examples of user stories) or descriptions of functionality with related details. Do not describe how these features are implemented, only WHAT needs to be implemented.

-To have military helicopters displayed and a user is able to click on a specific helicopter to view detailed information about that aircraft.

1.5 Tech Stack and APIs

- *Technologies that will be used in solution: **React and Node.***
- *Any libraries that will be used to save time or provide more functionality (make sure you have researched and understand how to use the libraries and any potential limitation: **None at this time.***
- *APIs/Web sites that will be required in the solution for data: **Bell Helicopters, Sikorsky, Honeywell Aerospace, GE Aerospace, Boeing, Rolls Royce Aerospace, AgustaWestland, Lockheed Martin, ICAO.**(Aviation companies/manufacturers and governing bodies.)*

2. Client-Side Implementation

Site Map

List of pages/screens that your project will implement with brief descriptions. You can use draw.io to make technical diagrams. e.g.)

In list format:

Home

Navigation Bar.

Helicopter list.

Individual aircraft with image and detailed information.

About Us

The why behind this; and, thank you.

Contact Us

Email form template structure.

Screen Details

Mockups and/or descriptions of input/output or state that the screens will need. You can use online tools like [Balsamiq](https://balsamiq.com/), or pictures of hand drawn mockups, whichever is easiest to identify key ideas of the user interface.

-Home page: top NavBar, list of helicopters, and a main helicopter section showing image and it's information.

-About us page: top navbar, text explaining the why behind this.

-Contact us page: top NavBar, email submission form .

3. Server-Side Implementation

3.1 End-Point Descriptions

A list of endpoints your server will implement, HTTP methods for the end points, and any parameters that the endpoint will accept to fulfill the request. e.g.:

End-point	Response Format
HTTP GET - /	/ - home page.
Get - /:id	/:id – single helicopter section.
Get - /about	/about – about page.
Get - /contact	/contact – contact page.

3.2 External APIs that will be consumed

None to be used, at this time.

API's used: ICAO.

3.3 Database Structure

-json file to house and store aircraft data; images will either be stored on the app or pulled through public URL's.

3.4 Authentication/Authorization and Security

None.

4. Project Roadmap

Phase 1

- 1. Collect information and build backend.Test.*
- 2. Build front end. Test; and, connect to backend.*
- 3. Styling.*

Day	Goal
<i>1 (Wed)</i>	<i>Create database and design models aircraft</i>
<i>2 (Thurs)</i>	<i>Build server boilerplate and hook up to database</i>
<i>3 (Friday)</i>	<i>Define all Endpoints, connect endpoints</i>
<i>4 (Mon)</i>	<i>Implement functionality of endpoints - create JSON response and verify endpoint responses</i>
<i>5 (Tues)</i>	<i>Build React App overall structure and high-level components</i>
<i>6 (Wed)</i>	<i>Connect components to end-point APIs</i>
<i>7 (Thurs)</i>	<i>Test/debug end-to-end functionality of app</i>
<i>8 (Fri)</i>	<i>Implement CSS/Styling</i>
<i>9 (Mon)</i>	<i>Code Clean up, last minute testing/debugging</i>
<i>10 (Tues)</i>	<i>DEPLOYMENT</i>
<i>11 (Wed)</i>	<i>DEMO DAY</i>

Phase 2

This is what features you may complete if you have extra time, or what you would work on next after Phase 1 is complete.

-StoryMode of a aircraft: 3d interactive model, that is also able to “fly over” a background and passes by information using scrollTrigger.

-Aircraft are 3D and can rotate all around it to see it.

-Helicopters from allied nations military. (USA, UK, etc).

-A background graphic/gifhy/video that shows a helicopter logo(representing the individual aircraft) flying over land to give a visual of how far the aircraft can fly.

-A visual comparison of how big(tall) a helicopter is when compared to a 6ft. Tall person. And how many people can load into the aircraft.

-Helicopter has images in a carousel

-Cards that flip on hover. Like study flash cards so it's more interactive if people want to learn.

-You can add features, like add helicopters and remove helicopters.

Phase 3

This is nice to have features or future enhancements that are more complex, or take the project to a more completed, production-ready state.

-Having a side-link to take a user to fixed-wing aircraft. And the page will have all fixed-wing military aircraft.

-Perhaps in can be a place where military personnel can post their photos with helicopters?

--And for safety and security, new postings will not be visible for 30 days?

--OR they can be instant but people need to be aware that it is a public and open site on the internet.

5. Demo Day Placard Information

Please fill out the attached Google Form to complete your placard information required for Demo Day.