



Thunder Wings E-commerce challenge!

Welcome to the Thunder Wings E-commerce Challenge! In this challenge, your task is to build the backend API for Thunder Wings, an e-commerce platform that specializes in military jets. Your goal is to create a set of API endpoints that allow users to browse, compare, and purchase military jets.

Important Information

Authentication and user identification is beyond the scope of this test and should not be implemented.

*A separate document accompanies this challenge containing an aircraft schema and values for each of the different types of aircraft available for use in your application.

Task 1

Implement the provided data schema within the application and choose a method of accessing and/or persisting the information. The focus of the test is on API logic and not the storage method you choose, so choose something convenient to you.

Task 2

Develop an API endpoint that retrieves a list of military jets, including the properties of each jet. This includes the name, manufacturer, country, role, top speed and price for the aircraft.

Task 3

Adapt the previous endpoint to allow the filtering of results based on any one of the listed aircraft properties. These filters are optional and a combination of filters must be supported. For example return all multirole fighters from the United States. Results should be paginated.

Task 4

In order to complete their purchase our customers will need to be able add their choices to a basket. Develop a simple basket system where customers can add and remove items from their basket.

Task 5

We would like the customer to be able to add to their basket and return another time to complete the checkout process. Implement a method of storing/persisting the basket data for the customer for later retrieval.

Task 6

Finally, implement a checkout process. This includes the following steps. Validate there are items in the basket, calculate the total price of all items in the basket and then generate and return an order confirmation/receipt for the purchase.

Final Words

This test was designed, and will be assessed, in good faith. It is an opportunity for us to see the technical skills you possess and how you approach problem solving.

To submit the test, please either zip up the folder containing your source code and send it to us or alternatively if you have stored the project in a repository, please provide us the details and provide access.

If you are unable to complete the test entirely for any reason, please submit what you were able to complete.

If you are unsure of any aspect of the test and have questions, feel free to get in touch. Appropriate contact details will be provided during test hand out.