ShipTime Sr. Java Developer Interview Project

**Project Overview:** You are tasked with creating a simplified version of a shipping rate comparison module. This module should be capable of interacting with predefined shipping rate APIs and display a list of shipping options based on certain input criteria such as package dimensions, weight, and addresses.

**Key Objectives:**

1. **API Integration**: Demonstrate the ability to integrate with third-party APIs to fetch real-time data.
2. **Algorithm Development (optional)**: Implement an algorithm to sort and display shipping options based on cost
3. **Error Handling**: Error handling to account for error responses from the API requests
4. **User Interface**: Develop a simple user interface (UI) that can take input and display the shipping options. The UI can be in the form of a command-line interface, a web application, or a desktop application, depending on your preference as it is not a requirement for the role.

**Sandbox API Docs**: sandboxrestapi.shiptime.com

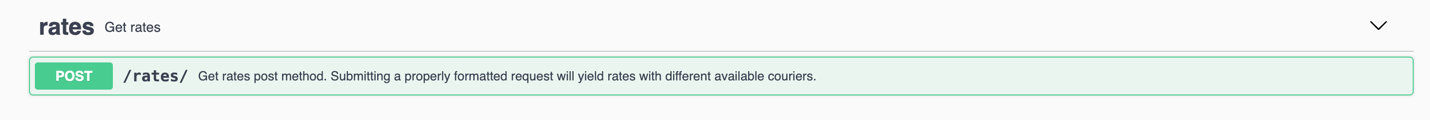
Basic Auth

**Username**: alomail73@gmail.com

**Password**: Password123

**Step 1 – Rates:**

Implement the **Rates** endpoint to retrieve shipping rates. This endpoint accepts user input and outputs shipping rates.



The required fields can be found in the model at the bottom of the page.

A close-up of a document

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Grab the required information from a user – this can be presented via a webpage in any form.

For required fields that dont need user input like package\_type, ship\_date, these can be hardcoded.

Ex.

A screenshot of a computer screen

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**Step 2 – Present Results of Get Rates:**

In the Get Rates response, you are returned with dynamic pricing and available couriers for the specific origin, destination and dimensions/weight that were provided.

Display this basic information in option boxes and allow the user to choose one and continue with a button or when they click the option box.

Ex.

A screenshot of a computer

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\*Note: The screenshot is an example UI only – the carriers, services, and prices will be different.

**Step 3 – Shipments – Create**

Using the shipments endpoint, post a request to create a shipment. This uses the information that the user entered during the quote step plus the specific carrier-service they selected.

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Upon success a ShipID, and url to a PDF are provided in the result. Display a success and the ShipID, and URL to the PDF, or href it in a button.

Ex.

A screenshot of a computer

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