Angular Code
Kata

CODING
CHALLENGE

Explanation of Task

1. You need to complete this code challenge

2. Develop an Angular Application using TypeScript

3. Use a JWT token for tracking session

4. Use the RxJs for passing data in the application

5. Should have basic responsive design

6. Develop a simple reactive form page that can handle user input, call the provided API methods, and then display the results.

7. Some requirements were left open to interpretation to test your ability in making correct assumptions.

8. Expected Form Fields: *(For more information, view API documentation)*

    1. Host Country

    2. Host State (if applicable)

    3. Age

    4. Currency – Values should be from API

    5. Destination Country

    6. Total Trip Cost

    7. Start Date of Trip

    8. End Date of Trip

    9. Would you like the Winter Sports Extension?

    10. Deposit date for first payment

9. Please use *product_id: 8* when using the API.

10. The format of the deliverable can either be in the form of a compressed file such as a zip file or as a GitHub link.

11. Expected duration of task: 2 to 3 hours.

12. Bonus: Angular Unit tests

You will be judged on:

- Correct use of coding standards and practices.
- Overall implementation of the solution.
- Ability to understand requirements.

API
DOCUMENTATION

General Points

- The API conforms to the REST architecture.
- Data sent in the request and response bodies are encoded in JSON.
- Request must be performed from a registered IP.
- Access to the API is controlled via a JWT token which will be provided to you.
- All requests must include these two required HTTP headers:

Key	Value
Content-Type	application/json
Authorization	Bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJUY W5naWVycyBJbnRlcm5hdGlvbmFsIiwiaWF0IjoxNjI4MDA4MjA xLCJleHAiOjIyNTkxNjAyMDEsIm5iZiI6MTYyODAwODIwMSwia nRpIjoiVkZzU3I5TE9hbHNKN1d0QyIsImFmZmlsaWF0ZV9pZCI 6MSwicHJvZHVjdF9pZHMiOnsiMSI6MiwiMiI6NiwiMyI6NywiN CI6OCwiNSI6OSwiNiI6MTAsIjciOjExLCI4IjoxMn0sInBlcm1 pc3Npb25zIjpbIlFRQyIsIkdBQyIsIkdEQyIsIkdIQyIsIkdSV SJdLCJzdWIiOiJQYXJ0bmVyIEFjY2VzcyBUb2tlbiJ9.sTZsa- ufE4MkDaqKMz380HmGZjc2evxOXw9M1H1M_Xs

Note: Token is a single string with no returns. If you copy remove the newlines.

Get Quick Quote

Type of Request: POST

URL: https://coding-challenge-api.bfdevsite.com/api/v1/site/1/token/quotation

Request Body Parameters

All the below parameters are required except where otherwise stated.

Key	Description	Example
product_id	Product ID. See Product Reference Section.	8
age	Comma separated list of insureds' ages. First value must be 18 or over. 0 is not a valid age.	"28,16"
currency_id	Currency code in ISO 4217 format.	"EUR"
destination_country_ids	Comma separated list of destination country codes in ISO 3166 alpha-2 format.	"AF,CZ"
host_country_id	Home country code of insured in ISO 3166 alpha-2 format.	"MT"
country_state (optional)	Abbreviation / code for home country state of insured. Can be obtained from "Get Host Countries" API call. Can also be an empty string for non-applicable countries	"AL"
start_date	Start date of trip in ISO 8601 format.	"2018-10-01"
end_date	End date of trip in ISO 8601 format.	"2018-10-30"
trip_cost (required only for products 8,9,10,11,12)	Total trip cost	500
deposit_date (required only for products 8,9,10,11,12)	Date of first trip payment in ISO 8601 format.	"2018-10-01"
winter_sport_extension	Boolean representing if winter sports extension was selected.	True/false

Note: Use product_id 8 for this challenge

Response Body Parameters

Key	Description	Example
total	Total Price of Policy	28.43
premium	Policy Premium	8.43
tax	Policy Tax	13

fees	Policy Fees	7
currency_id	Currency code in ISO 4217 format.	"EUR"
return_url	URL which should be used to redirect the insured to the battleface site. The partner_id will link the potential purchase to your account.	https://www.battleface.com/quote/<partner_id>/product/<product_Id>/step1?quoteId=<quotation_id>
quotation_id	Quotation ID for your reference.	42

Get Destination Countries

Type of Request: GET

URL: https://coding-challenge-api.bfdevsite.com/api/v1/site/1/product/<product_id>/destination_country

Request URL Parameters

All the below parameters are required.

Key	Description	Example
product_id	Product ID. See Product Reference Section.	"8"

Response Body Parameters
The response will be an array of objects. Each object will have the below parameters:

Key	Description	Example
name	Country Name	"Malta"
iso_code	Country code in ISO 3166 alpha-2 format.	"MT"

Get Host Countries

Type of Request: GET

URL: https://coding-challenge-api.bfdevsite.com/api/v1/site/1/product/<product_id>/host_country

Request URL Parameters

All the below parameters are required.

Key	Description	Example
product_id	Product ID. See Product Reference Section.	"8"

Response Body Parameters

The response will be an array of objects. Each object will have the below parameters:

Key	Description	Example
name	Country Name	"Malta"
iso_code	Country code in ISO 3166 alpha-2 format.	"MT"

country_states	Array of allowed country states (where applicable). Value can be an empty array. "code" parameter is the common abbreviation that is used for country states.	[
		    {
		        "name": "Alabama",
		        "code": "AL"
		    },
		    {
		        "name": "Alaska",
		        "code": "AK"
		    }
		]

Get Allowed Currencies

Type of Request: GET

URL: https://coding-challenge-
       api.bfdevsite.com/api/v1/token/product/<product_id>/country/<country_id>/currencies

Request URL Parameters

All the below parameters are required.

Key	Description	Example
product_id	Product ID. See Product Reference Section.	"8"
country_id	Home country code of insured in ISO 3166 alpha-2 format.	"MT"

Response Body Parameters

The response will be an array of objects. Each object will have the below parameters:

Key	Description	Example
name	Currency Name	"Euro"
iso_code	Currency code in ISO 4217 format.	"EUR"

Error Handling

General Information

HTTP status codes are used to determine whether an API call has been successful. If the status code is in the form of 2xx this would signify that the call was successful. Any other status code would mean that the call was unsuccessful.

Error Codes

401
This is returned in case of an unauthorised access to a resource. The reason for this can vary from the token being invalid to trying to access a resource that the token is not allowed to access. Make sure that the token that you are using has been copied fully in the Authorization header. Example of an error returned is the following:
{
        "error": "Expired or Invalid JWT Token."
}

404
This is mostly returned if the URL of the request is incorrect.

406
This signifies that data sent in the request is incorrect. Go through the documentation for the call and make sure that the request body parameters meet the criteria mentioned. Example of an error received is the following:
{
        "error": "Product ID not provided."
}

5xx
This is a server related error and this should not be a common occurrence. If this is encountered, please contact it@battleface.com

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