**Coding Challenge**

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| --- | --- |
| **Trip Price App** | |
| Developer | Kevin Catania |
| Version | 1.0 |
| Release Notes | Initial release |
| Release Date | 7th June 2024 |
| Email | kevincatania14@gmail.com |
| Mobile | +356 99140498 |

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# **Scenario**

Creation of an endpoint and client to calculate trip prices based on age and trip length.

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# **Prerequisites**

* Apache
* MySQL

# **Notes**

For clarification or setup questions, please feel free to contact me. If there are specific shortcomings related to business logic or optimisation, I am willing to discuss and provide an update.

# **Instructions**

1. Extract trip\_price\_calculator folder to Apache directory
2. Import trip\_price\_calculator/API/trip\_calculator.sql to MySQL
3. Update DB\_SERVER, DB\_USER, DB\_PASSWORD and LOG\_DIR in trip\_price\_calculator/API/config.php
4. Update api\_prefix in trip\_price\_calculator/APP/config.js
5. Run trip\_price\_calculator/APP

http://localhost/trip\_price\_calculator/app

1. Logs are available at:

trip\_price\_calculator/API/DataAccess/Logs

1. Additional inline comments are available throughout trip\_price\_calculator

# **App Overview**

Enter currency, age, start date and end date. Press Get Quote:

A screenshot of a trip calculator

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# **Unit Tests**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Parameter** | **Expected Result** | **Actual Result** | **Remarks** |
| EUR, 25+35, 1-10-2020, 30-10-2020 | (3 x 0.6 x 30) + (3 x 0.7 x 30) = 117 | 117 | **PASS** |
| USD, 25+35+100+twenty, 31-10-2020, 30-10-2020 | Age + date errors | Age + date errors | **PASS** |

1. Test parameters for correct intended input e.g. EUR, 25+35, 1-10-2020, 30-10-2020

A screenshot of a trip calculator

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1. Test parameters for incorrect random input e.g. USD, 25+35+100+twenty, 31-10-2020, 30-10-2020

A screenshot of a calculator

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# **Improvement Suggestions**

1. Usage of Symfony/Laravel/CodeIgniter in place of PHP
2. Usage of Angular/React/Vue in place of HTML/CSS/JS
3. Restricted API access