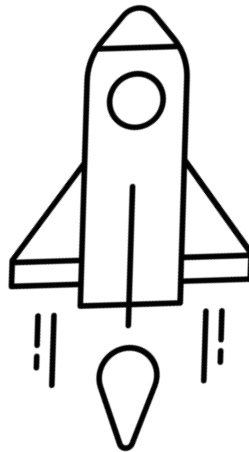


Salesforce Developer Technical Assignment



Overview

This assignment was designed with the aim to test and showcase the technical ability, best practices and skill level of a Salesforce developer using Salesforce programming languages and technologies

Goals

1. Test client side / front-end development.
2. Test back-end / server-side development.
3. Test basic database design and knowledge.
4. Test integration development using RESTful services.
5. Test logic and problem-solving abilities

Prerequisites

1. Internet connection.
2. Salesforce Developer or Sandbox Org.
3. IDE to write and compile your code such as Microsoft VS Code.
4. An internet browser to test your solution.
5. A free GitHub account to house the assessment source code and project files

Requirements

User Story 1

As an end user, I want to be able to access a web page to input my South Africa ID Number to check if there are any important public holidays on my date of birth.

Acceptance Criteria

- A web page with an input field to input an ID Number.
- An info / description section on the web page to provide information as to what the page does.
- A search button that will be used to execute a “Search” action.

Additional Information

- The design, look and feel are entirely in your hands.

User Story 2

As an end user, I must enter a valid South Africa ID Number before I can submit a search action so that value can be decoded into its relevant parts / information.

Acceptance Criteria

- The search button should be disabled until a valid ID number is input.
- The validity of the ID number must be determined based on the below publication describing how to validate an ID number.
- A message or prompt should be displayed when an invalid ID number is input.

Additional Information

- South Africa ID Number Decoding - <https://www.westerncape.gov.za/general-publication/decoding-your-south-african-id-number-0>
- The design, look and feel are entirely in your hands.

User Story 3

As a developer, I want to ensure we store information extracted key information about an ID number and a count of searches for a given ID number so that we can track how often the specific ID number is queried.

Acceptance Criteria

- Only valid ID number searches should be stored in the database in a table.
- The ID number itself should be a unique key / reference for future updates.
- Decoded information about the ID number must be stored against the record in the database.
- A counter on the record must be incremented each time a visitor searches using the same SA ID number.

Additional Information

- Decoded information – Date of Birth, Gender, SA Citizen
- The design, look and feel are entirely in your hands.

User Story 4

As an end user, I want to know what the banking / public holidays there are for the year of a given ID number so that I can display the results back to the visitor.

Acceptance Criteria

- After saving or updating the ID record in User Story 3, the Calendarific API should be called to retrieve a list of banking / public holidays.
- The list of all banking / public holidays should be displayed back to the visitor on the page.

Additional Information

- You need to use the year obtained from the SA ID number and South Africa (ZA) are passed as parameters when calling the Calendarific Holiday API endpoint.
 - Calendarific API Documentation: <https://calendarific.com/api-documentation>
 - API Key: 24c5e86734eb44dc4a962826324a5546e74dc42f
- The design, look and feel are entirely in your hands.

Document Tracking

Description	Author	Date	Version
Initial version for SFDC Specifically	Peter Guest	30/11/2020	1.0

