Full Stack Developer Assignment

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This document is just a small explanation of how the user stories were developed and some of the ideas behind of the chosen solution.

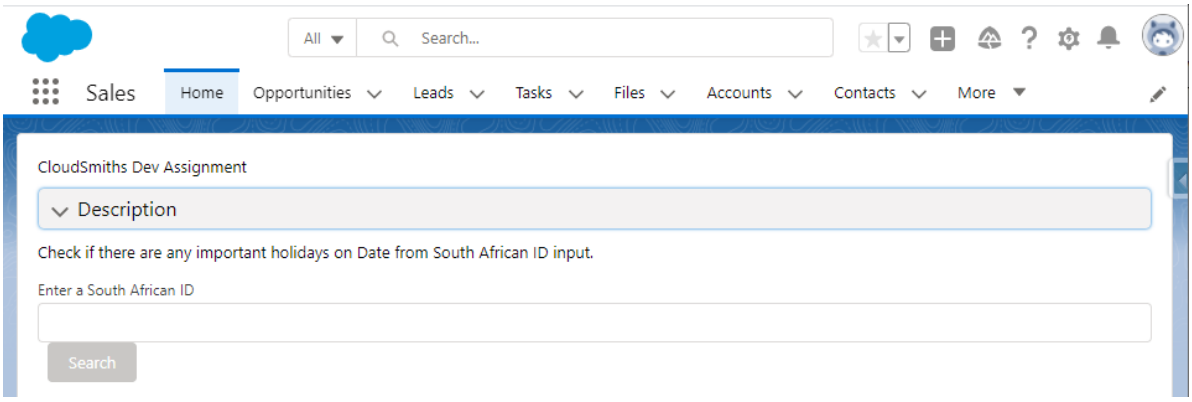
Attached with this document you can find all related code,(HTML,JavaScript, Apex) and the metadata to support the project Data structure.

1. User Story 1

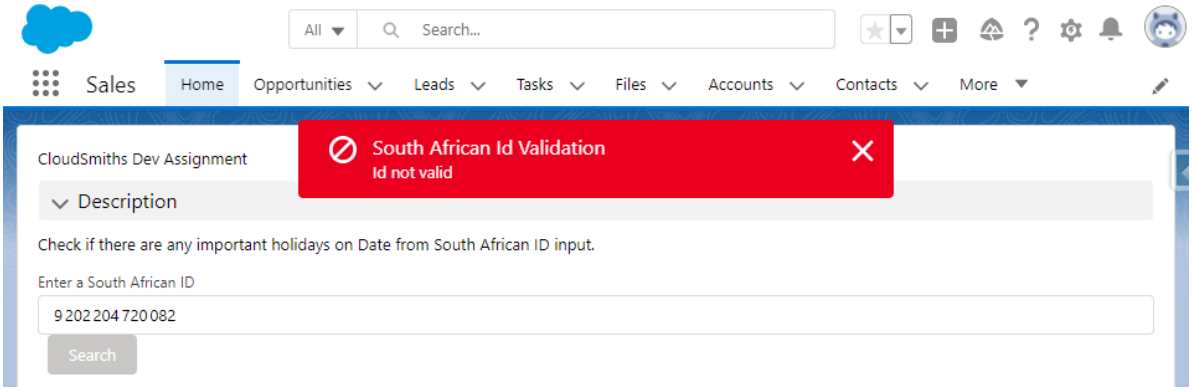
Lightning Web Component to Search for a South African ID number inside Salesforce. This lightning web component can be used in Experience site as External Page.

Section with collapsible description.

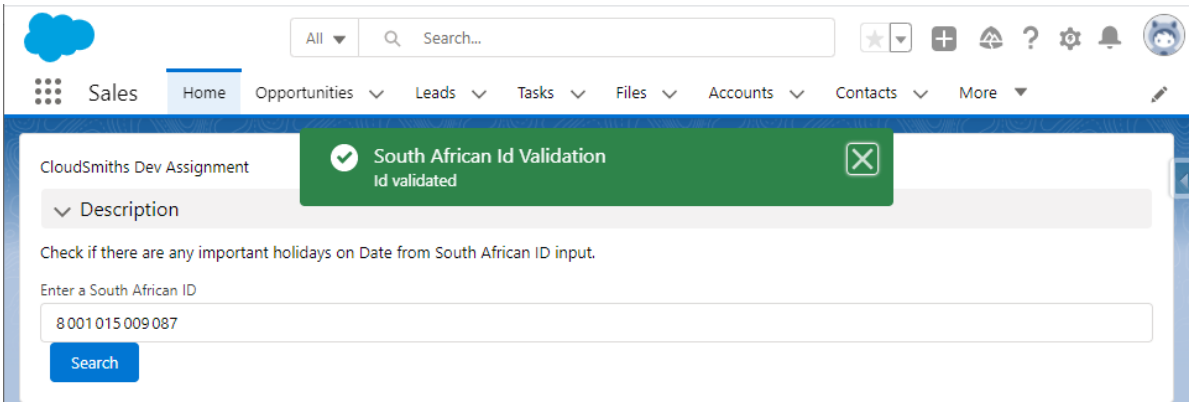
Search Button with action. In the picture the button is disabled since there is no valid id in the input field.



2. User Story 2

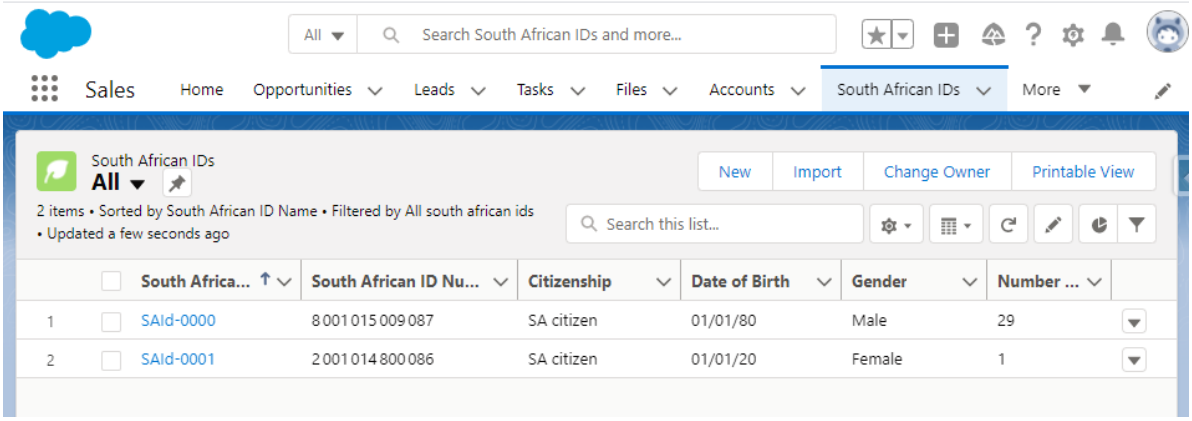


Toast Notification to inform end user if an Invalid ID was provided. Button will be disabled as long as the Id is invalid.



Toast notification to inform the user that a valid ID was provided. It's possible to use the button after providing a valid ID.

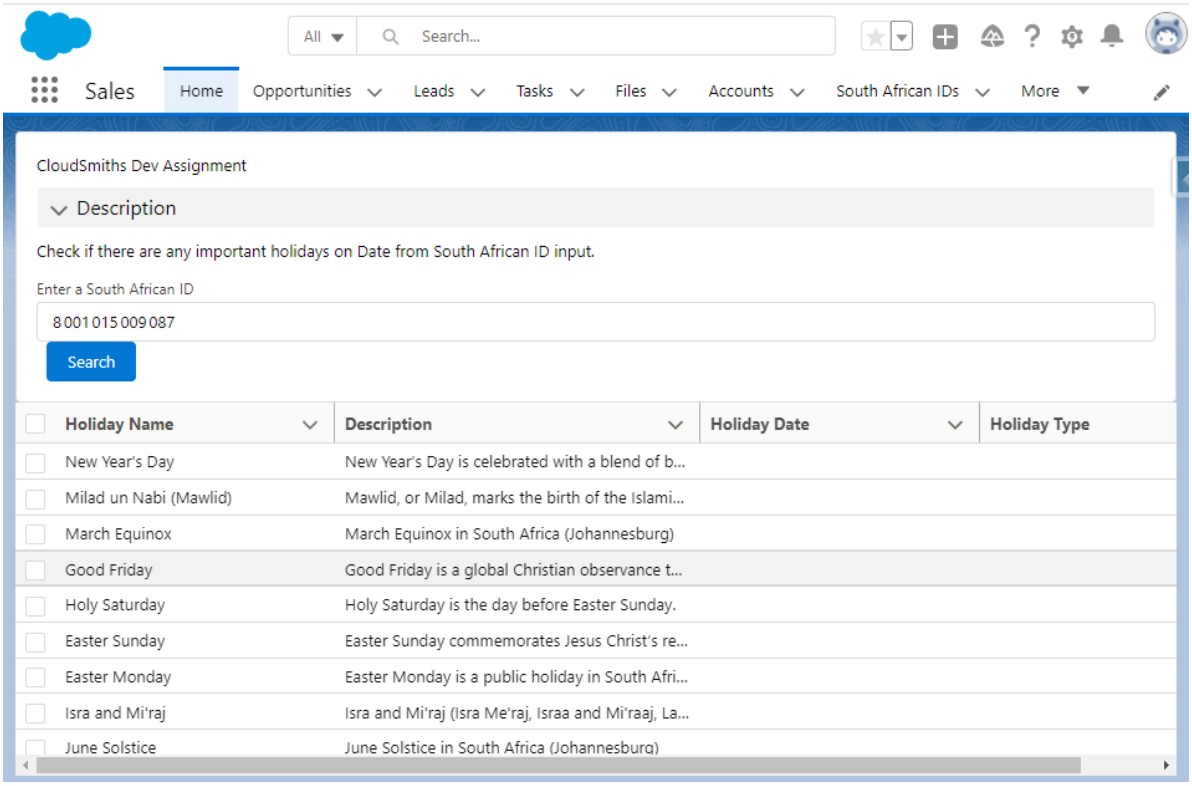
3. User Story 3



South African ID Number	SouthAfricanIDNumber__c	Number(13, 0) (External ID) (Unique)	✓

I've created a custom object in Salesforce to store the searches done in the LWC. The component checks if the record for an ID exists, if it doesn't creates a new record with South African Id Number as an external ID. If the Id exists, it only increases the number of queries field to register the search.

4. User Story 4

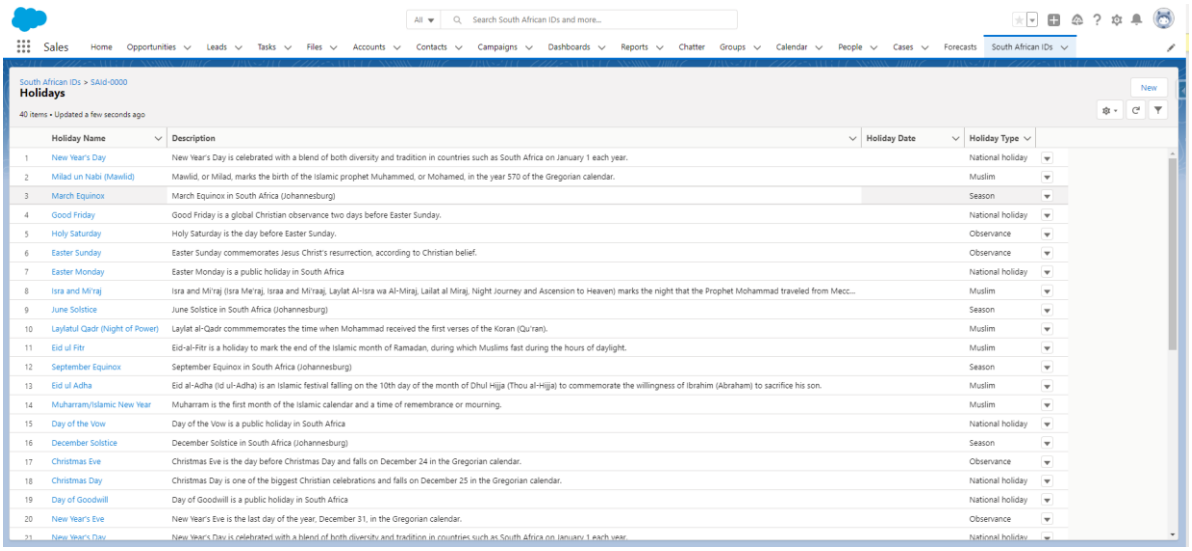


Custom table to show the Holidays for the given ID. I've considered just one use case for the years. Since, I only have two numbers to determine the year of birth. The search only works for people with less than 100 years old.

It has 4 columns, but for some reason it has a bug. Probably due to format.

It's returning all holidays for the given year, and it doesn't check for the date of birth.

5. User Story 5



	Holiday Name	Description	Holiday Date	Holiday Type
1	New Year's Day	New Year's Day is celebrated with a blend of both diversity and tradition in countries such as South Africa on January 1 each year.		National holiday
2	Milad un Nabi (Mawlid)	Mawlid, or Milad, marks the birth of the islamic prophet Muhammed, or Mohamed, in the year 570 of the Gregorian calendar.		Muslim
3	March Equinox	March Equinox in South Africa (Johannesburg)		Season
4	Good Friday	Good Friday is a global Christian observance two days before Easter Sunday.		National holiday
5	Holy Saturday	Holy Saturday is the day before Easter Sunday.		Observance
6	Easter Sunday	Easter Sunday commemorates Jesus Christ's resurrection, according to Christian belief.		Observance
7	Easter Monday	Easter Monday is a public holiday in South Africa		National holiday
8	Isra and Mi'raj	Isra and Mi'raj (Isra Me'raj, Israa and Mi'raaj, Laylat Al-Isra wa Al-Miraj, Lailat al Miraj, Night Journey and Ascension to Heaven) marks the night that the Prophet Mohammad traveled from Mecc...		Muslim
9	June Solstice	June Solstice in South Africa (Johannesburg)		Season
10	Laylatul Qadr (Night of Power)	Laylat al-Qadr commmemorates the time when Mohammad received the first verses of the Koran (Qu'ran).		Muslim
11	Eid ul Fitr	Eid-al-Fitr is a holiday to mark the end of the Islamic month of Ramadan, during which Muslims fast during the hours of daylight.		Muslim
12	September Equinox	September Equinox in South Africa (Johannesburg)		Season
13	Eid ul Adha	Eid al-Adha (Id ul-Adha) is an Islamic festival falling on the 10th day of the month of Dhul Hijja (Thou al-Hijja) to commemorate the willingness of Ibrahim (Abraham) to sacrifice his son.		Muslim
14	Muharram/Islamic New Year	Muharram is the first month of the Islamic calendar and a time of remembrance or mourning.		Muslim
15	Day of the Vow	Day of the Vow is a public holiday in South Africa		National holiday
16	December Solstice	December Solstice in South Africa (Johannesburg)		Season
17	Christmas Eve	Christmas Eve is the day before Christmas Day and falls on December 24 in the Gregorian calendar.		Observance
18	Christmas Day	Christmas Day is one of the biggest Christian celebrations and falls on December 25 in the Gregorian calendar.		National holiday
19	Day of Goodwill	Day of Goodwill is a public holiday in South Africa		National holiday
20	New Year's Eve	New Year's Eve is the last day of the year, December 31, in the Gregorian calendar.		Observance
21	New Year's Day	New Year's Day is celebrated with a blend of both diversity and tradition in countries such as South Africa on January 1 each year.		National holiday

Holidays were stored in a Master-detail relationship with South African Id, that it was searched. This is a related list inside Salesforce, attached to the Parent Record (Given SA ID). Each search will create more Holiday records, this is not optimized.