

## General software Architecture:

React / Redux -> Api Gateway -> AWS Lambda -> CosmosDB

## Data Architecture:

- Use CosmosDB
- ? means optional
- Every record will have a "type" field which represents the record type. This allows multiple types of records to be stored in the same cosmosdb collection.
- Three collections: CFF (forms and responses), Users, and Centers. I am separating the collections because we may use the Users and Centers collections for different purposes other than CFF.
- Each cosmosdb collection costs, at the minimum, around \$30 per month. Having three collections would cost \$1080 per year.

```
{
```

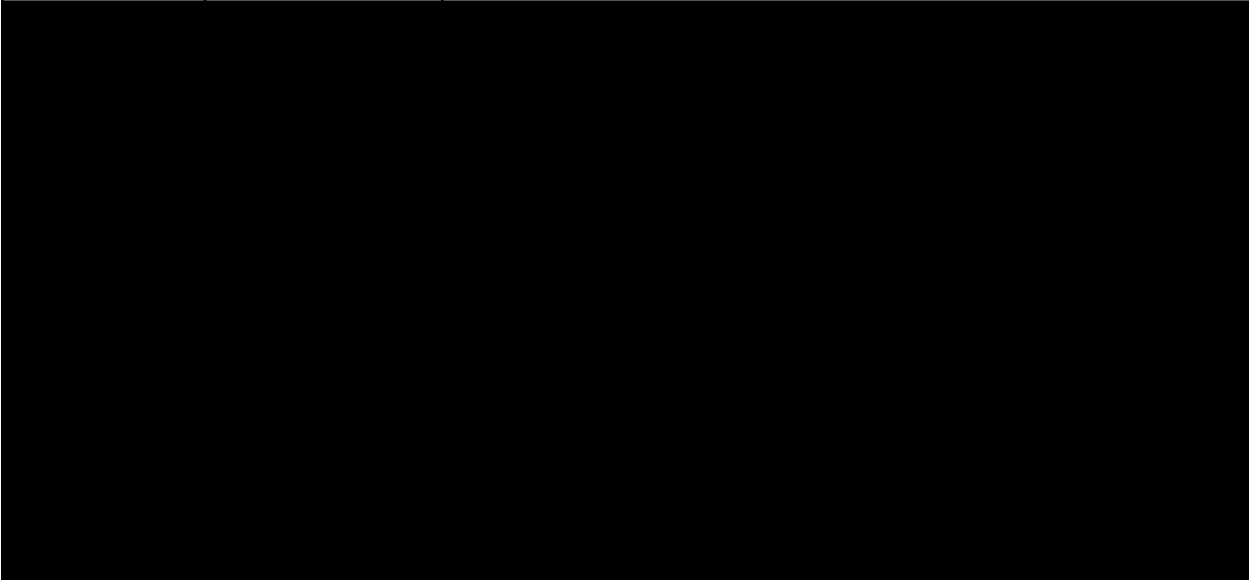
```
"cff:permissions": {"cff:cognitoIdentityId:asjdklasjdklsajdl": ["Edit", "ViewResponses"] }
```

```
}
```

Record Type	Cosmos DB Collection	Record Schema		
Forms	cff	<b>Name</b>	<b>Type</b>	<b>Description</b>
		id	string	Unique uuid
		schema	object	Form schema
		uiSchema	object	Form ui schema
		formOptions	object	Form options (contains paymentInfo)
		cff:permissions	object	User permissions

		<table border="1"> <tr> <td>center</td> <td>object</td> <td>Uuid, name, level of center this form is associated with</td> </tr> <tr> <td>date_modified</td> <td>string</td> <td></td> </tr> <tr> <td>date_created</td> <td>string</td> <td></td> </tr> <tr> <td>version</td> <td>int</td> <td></td> </tr> <tr> <td>type</td> <td>"formMetadata"</td> <td></td> </tr> <tr> <td>formType</td> <td></td> <td></td> </tr> </table>	center	object	Uuid, name, level of center this form is associated with	date_modified	string		date_created	string		version	int		type	"formMetadata"		formType								
center	object	Uuid, name, level of center this form is associated with																								
date_modified	string																									
date_created	string																									
version	int																									
type	"formMetadata"																									
formType																										
Responses	cff	<table border="1"> <tr> <td>form</td> <td>string</td> <td>Form Id</td> </tr> <tr> <td>id</td> <td>string</td> <td>Response uuid</td> </tr> <tr> <td>user</td> <td>object</td> <td>User id, name, email that the response is linked to (this user can sign in and edit it)</td> </tr> <tr> <td>payment_status_detail</td> <td>Object[]</td> <td>Simplified payment history with payment method, amount, currency</td> </tr> <tr> <td>paid</td> <td>boolean</td> <td>Paid or not?</td> </tr> <tr> <td>payment_trail</td> <td>object[]</td> <td>Full payment history with entire IPN response, etc. (both success and failure)</td> </tr> <tr> <td>update_trail</td> <td>object[]</td> <td>Date, user updated, value</td> </tr> <tr> <td>value</td> <td>object</td> <td>Form data user has entered</td> </tr> </table>	form	string	Form Id	id	string	Response uuid	user	object	User id, name, email that the response is linked to (this user can sign in and edit it)	payment_status_detail	Object[]	Simplified payment history with payment method, amount, currency	paid	boolean	Paid or not?	payment_trail	object[]	Full payment history with entire IPN response, etc. (both success and failure)	update_trail	object[]	Date, user updated, value	value	object	Form data user has entered
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		date_created		
		date_modified		
		type	"formResponse"	



Centers	cm_centers			
		id	string	
		name	string	
		address	object	
		level	integer	Center type -- is it a subcenter, or a regular center, or something such as CMW?
		paymentMethods	object	Payment method configuration, such as paypal, ccavenue, etc.
		type	"center"	

4 year balavihar update? - every year, should be a new form with new responses.

User registration? - in form type, set up whether people require account or guest login.

Different types of user accounts, roles.

Super admin

Set up form

Only reporting

Only submitting

**Share screen:** Add presets for share screen. Users as dropdown, each permission should be a row.

Why rewrite?

- Performance - think of views to develop.
- Simplification