Claims Management Platform (CMP) Data Management Portal (DMP) Documentation

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Introduction

This is the documentation for the Data Management Portal (DMP) of Claims Management Platform (CMP). This platform allows users (authorized personnel) to create, read, update, delete, and manage claims intelligently and efficiently. The purpose of the DMP is to provide a user interface for users so they do not have to directly interact with data, or the API. More concretely, users can manage claims through clicking buttons on a web page as opposed to learning how to make API calls.

Related links

- The API http://api.cmp.carlngan.com/
- The Data Management Portal (DMP) http://api.dmp.carlngan.com/

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Backlog

Below are the features that would be nice to have (or things that I would do) if I were to make this a production ready product one day:

• Implement the ability to create and update claims by XML, JSON, or form. Currently we only support uploading an XML file.

Usage

The DMP is more straightforward than the API because there is a user interface to interact with. Since this is not a production ready product, I will discuss some of our current limitations as well.

Authentication

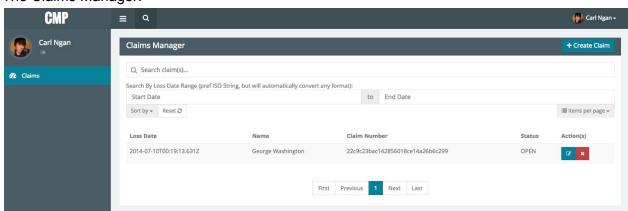
In order to access the portal, the DMP will need to make sure we are logged in. If not, we will directed to the login page, and redirected back to where we were or where we wanted to go if the login is successful. If not, appropriate error messages will be displayed.



Once logged in, we will be taken directly to the Claims Manager

Claims Manager

The Claims Manager:



The claims manager allows us to see a grid view of the list of claims. The manager also allows us to filter and sort claims based on parameters we provide.

To search for claims, we start typing in:

Claims Manager Q Geor Search By Loss Date Range (pref ISO String, but will automatically convert any format):

and the results should automatically populate. Currently it is only limited to searching claimants' first names.

To filter or search for claims with loss date between a date range, we can use:

Search By Loss Date Range (pref ISO String, but will automatically convert any format):		
2012-01-01	to	2013-05-06

We can type in a full date, a year, year and month, year/month/day, with/without time. The system will automatically try to convert it to ISO Date

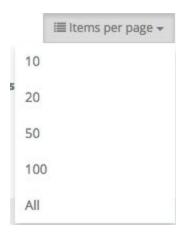
Format(https://www.w3.org/TR/NOTE-datetime). If it really cannot, it will give you an error.

We can sort our results using:



The Reset button will clear all searches and filters, and bring us back to where we begun.

We can specify how many results(claims) we want in a page using:



If there are more than one pages of results, we can take advantage of the pagination tools at the bottom of the screen:

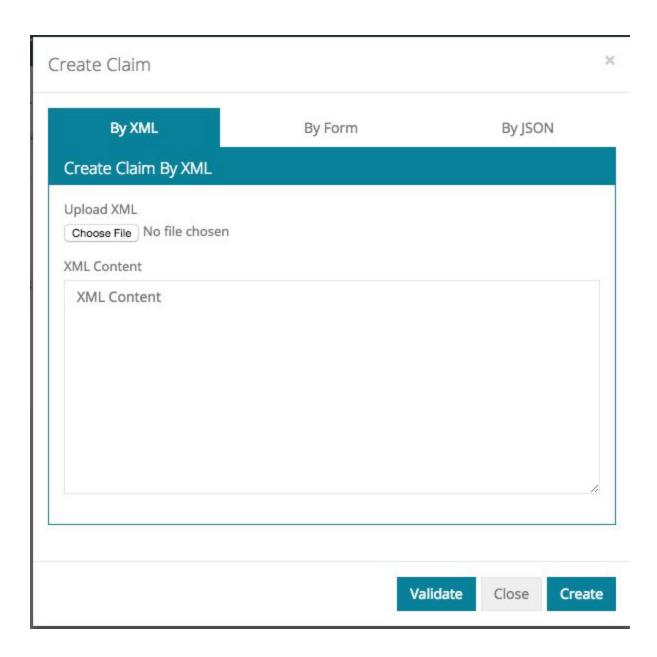


Create a claim

To create a claim, we click on the should open up:



button from the Claims Manager and it

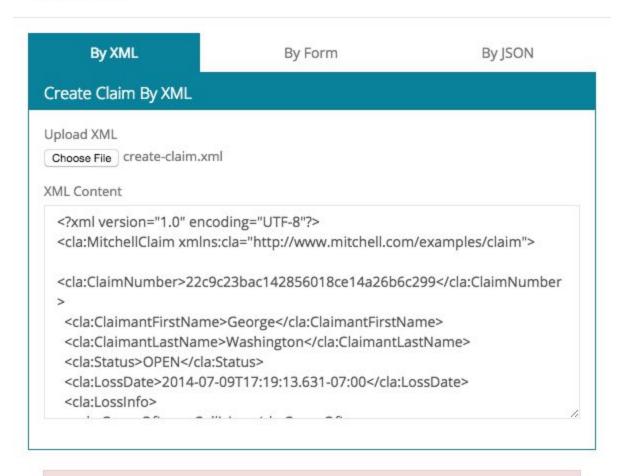


We can choose to upload an XML file or copy and paste its content into the XML Content field.

It is highly recommended that we click on the Validate before

When we click on validate, the system will attempt to validate our xml against the provided xsd and prompt us for warnings or errors.

Create Claim ×



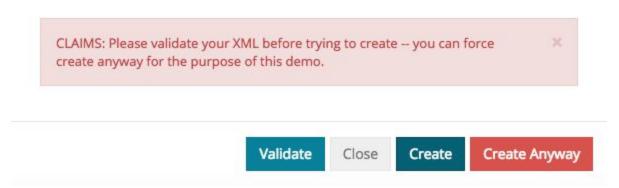
CLAIMS: Error: Element '{http://www.mitchell.com/examples/claim}Vin': This element is not expected. Expected is (
{http://www.mitchell.com/examples/claim}ModelYear). - You can continue to create for this demo purpose, but it is highly recommended to fix the xml and re-validate.

Validate

Close

Create

If we try to without our xml being validated and well-formed, we will be warned with the message:



Although it is recommended to go back, check, and correct our xml, we can click on



for the purpose of this demo and have the system create the claim anyway.

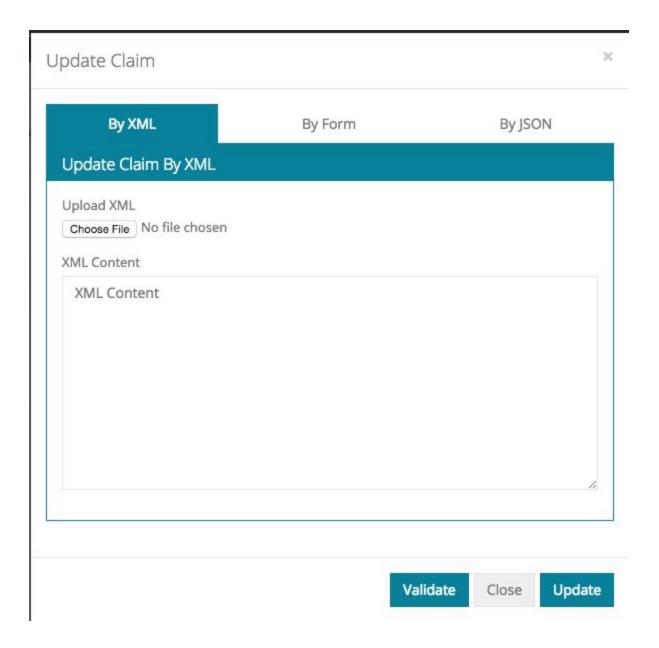
If the claim creation is successful, the pop up will close automatically and the claim will be added to the list of results.

Update a claim

A claim appears as:



To updated a claim, we click on the button and a pop up will show:



Very similar to creating a claim, we should go through the validation procedure before clicking on Lipidate on Lipidate

Delete a claim

Click on the button to delete a claim. Before deletion, we will be prompted with a confirmation screen:

Are you sure you want to delete: 22c9c23bac142856018ce14a26b6c299 - George Washington Delete Cancel

Dealing with Errors

Whether we miss validations, pass in bad values, or interact with the interface in unexpected ways, the DMP will intelligently return us errors specifying the message. The error message is usually a brief sentence saying what is wrong and we or the user should do to fix the error. The error code allows the user to lookup the error for a more detailed when our error documentation is built:)

Developers

Running the project

- 1. Navigate to a desired folder(it should be blank), or create a new folder for this project (i.e. cmp-dmp)
- 2. cd into the folder: 'cd cmp-dmp'
- 3. Clone the repo into this folder: 'git clone https://github.com/carlngan/cmp-dmp .'
- 4. `npm install` or `sudo npm install`
- 5. 'bower install'
- 6. Make a file called ".env" -- 'vim .env'
- 7. Paste the following content:

• • •

EXPRESS_SECRET=CARL NODE_ENV=development PORT=3002

• • •

- 8. 'npm start'
- 9. Follow the instructions to start the api here: https://github.com/carlngan/cmp-api

10. We can test locally by opening "localhost:3002"

Note: Make sure the API is running on localhost:3001

modals/

create.jade

Environments

Our environment needs to be defined because it a very dangerous to let the server infer. We use a different set of data for each environment. Specifically for the DMP, the database stores users sessions with the access token.

Databases

We have three databases: one for production, one for development, and one for testing. Hence it is very important to set NODE_ENV correctly. We use mongolab (http://mlab.com) for our databases. The credentials are found in ./config/database.json

Directory layout

```
./bin/
                      //entry point to the app. Make server and call /app.js
       www
./config/
       database.json
                              //specify database credentials
       config.json
                              //specify api url(s)
./modules/
       authentication/
               public/
                      AuthenticationCtrl.js //angular file that is lazy loaded with controllers
               routes/
                                      //define routes for the auth module
                      routes.js
               src/
                      AuthMiddleware.js //middleware for authentication
               views/
                      login.jade
                                             //file for the login screen
                              //entry point for the authentication module
               app.js
       claims/
               public/
                      ClaimCtrl.js
                                      //angular file that is lazy loaded with controllers
               routes/
                      templateRoutes.js
                                             //define routes for loading claim templates
               views/
                              //jade files
```

```
    update.jade
```

delete.jade

index.jade //template for the claims manager

- app.js //entry point for the claims module

- engine/

routes/

- routes.js //define routes for the app, namely login, root, and logout

views/

- layout.jade //layout for the whole admin panel

app.js //entry point for the engine module

./public/

css/ //css filesjs/ //javascript files

- angular-app.js //angular file for the project, contains all ui-states

- images/ //public images

vendors/ //folder for vendor files, mostly css and js
 ./.env //declare environment variables -- must have this file

./.gitignore //specify which files and files to ignore for git

./app.js //entry point to the app after ./bin/www. Server level configurations should

be defined here

./package.json //npm dependency manager

./README.md //project readme file

Coding convention

I try to follow the airbrb javascript guide (https://github.com/airbnb/javascript). I can use ES6 features in the server-sided portion of this project and not for the client-sided code because not all browsers support ES6.

Testing

None is written for the DMP -- though if I had more time, I would probably use Selenium (http://www.seleniumhq.org/) for front end testing.

Continuous Integration

When pushed to master, Heroku (http://heroku.com) will automatically pick up and deploy to our production server.

Deployment

For this project, I use Heroku (http://heroku.com) for deployment since it integrates well with circle and github. Personally, I use AWS (https://aws.amazon.com/) for my own projects.

Final words

This was a fun project overall, though I wish I had more time to work on it. I was given the project about 2 weeks ago and had only gotten the chance to start working on it 2 days ago. Finishing up with school (finals) is not an excuse, but it did consume much more time than I had expected. Although I have not started coding until 2 days ago, I have been thinking about this project, from the end user's perspective. I think I have over engineered certain components and made it more complex than it needs to be for myself. If I had the chance to do this project again, I would really prioritize a list and do what is more important/critical first, and less on trying to design and build a production ready product.