CCS User Guide

Prepared for CST8334

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Welcome to the Corruption Case Studies application user guide. This application is used to share real stories from people who have faced or are facing corruption and would like to share their resolution or look for answers from similar cases.

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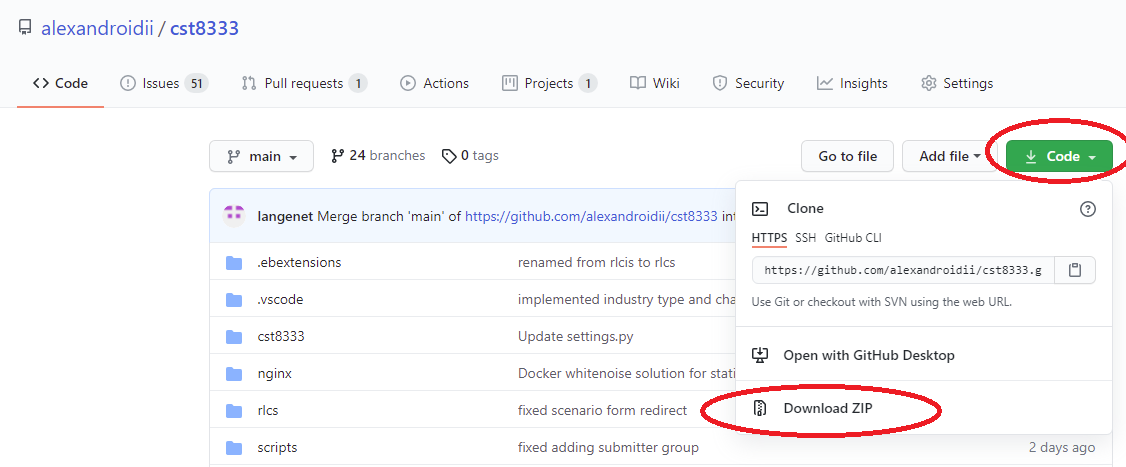
[Editing a scenario 13](#_Toc70106015)

# Installation

## Downloading The Image

1. To first run the application, you will need to install Docker at the following location:

<https://docs.docker.com/get-docker/>

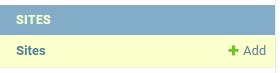
1. You can either download the entire RLCS repository from Github by following these instructions, or skip to step 3:
   1. Go to <https://github.com/alexandroidii/cst8333>
   2. Click on the  button and then on to download the entire application.  
        
      
   3. Extract the contents of the folder on your local file system **(example c:\rlcs)**
2. If you did not download the entire application (not needed to run only to develop) go to the following file in the Github repository and copy the file to your local system:
   1. <https://github.com/alexandroidii/cst8333/blob/main/docker-compose.yml>
   2. On your local file system, create a file called “docker-compose.yml”. For example, in the folder **c:\rlcs\docker-compose.yml**
   3. Copy the contents from the docker-compose.yml file in the link in step 3.a into the file you created in step 3.b
   4. Go to the following <https://github.com/alexandroidii/cst8333/blob/main/.env.dev> link
   5. Copy the contents of the .env.dev file into a file on your local file system called “.env.dev”. For example, in the folder **c:\rlcs\.env.dev**
   6. Update the .env.dev file with your own domain information as well as email SMTP info.

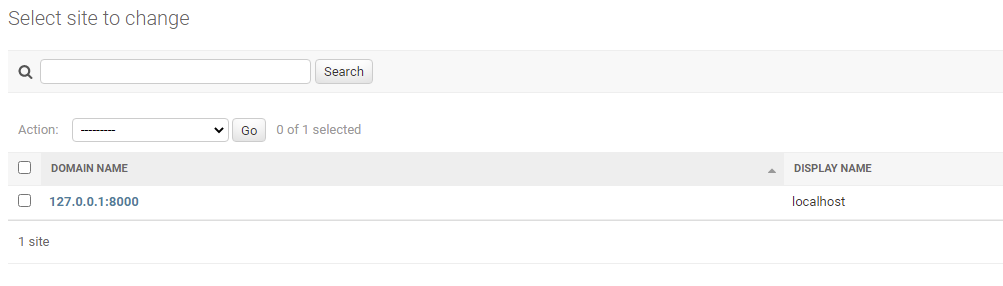
## Running the Image

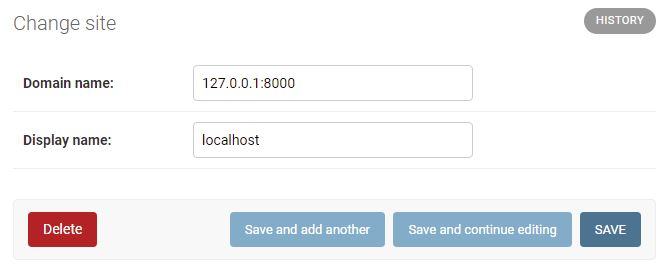
1. From a command line, run the following commands:
   1. docker images
      1. Note: If this command does not work, docker did not install correctly so you will need to return to step one to finish installing it
   2. cd c:\rlcs
      1. Note: If you gave your local folder a different name at step 2.c or 3.b then use that folder name instead
   3. docker login
      1. Note: Not sure if you need to login for this to work as it’s a public image.
   4. docker-compose up
      1. Note: you might be prompted by Docker to access local files. You can click yes or accept on that prompt.
2. You should be able to access the site now by going to <http://127.0.0.1:8000>

## Updating Your Site Domain

You will need to log into the application with the default Admin credential ‘admin@admin.com’ and ‘12345678’ as a password, click on the “Sites” link and modify the site address to represent your own.







## Creating the Docker Image

If you need to rebuild the docker image, run the following commands from a windows command terminal:

#Push an image to Docker Hub:

# Build the container locally

docker-compose up --build

#List all containers

docker ps -a

#Login to docker

docker login

#commit image where b317f7acf873 is the container id you found when running "docker ps -a"

docker commit b317f7acf873 alexandroidii/cst8333-rlcs:1

#Confirm you see the new image:

docker images

#push the image up to docker hub

docker push alexandroidii/cst8333-rlcs:1

#pull the docker images ready to load

docker pull alexandroidii/cst8333-rlcs:1

#run the pulled images

docker run -it alexandroidii/cst8333-rlcs:1

Note: You will need to create your own Docker Hub account and use it to push up your image.

The current Docker image is located at:

<https://hub.docker.com/repository/docker/alexandroidii/cst8333-rlcs>

## Dockerfile Configuration Explained

Below are the contents of the Dockerfile and all relevant settings.

Entrypoint.sh has the commands used during the container initialization. (startup)

**Dockerfile:**

3.8-alpine – version of light-weight Linux

ENV PYTHONUNBUFFERED=1 PYTHONUNBUFFERED to a non empty value ensures that the python output is sent straight to terminal (e.g. your container log) without being first buffered and that you can see the output of your application (e.g. django logs) in real time. (Optional)

ENV PATH="/scripts:${PATH}" Add scripts to the path of the running container

COPY ./requirements.txt . Copy requirements file include all the necessary library packages used in the running application container.

RUN apk update

RUN apk add postgresql-dev gcc python3-dev musl-dev Add postgresql dependencies

RUN apk add --no-cache --virtual .build-deps build-base linux-headers \

&& pip install Pillow Pillow dependency for image uploads

RUN pip3 install -r /requirements.txt Read in required libraries

RUN apk del .build-deps Remove temp folder

WORKDIR /rlcs\_app Set the working directory app name

COPY . . Copy the contents of the project into the container

COPY ./scripts /scripts Copy script useful for docker image

RUN chmod +x /scripts/\* Add executable flag to anything in the scripts folder

RUN mkdir -p /vol/web/media Creates new directories inside docker image (any images that get uploaded to the Django application) i.e. Scenario documents

RUN mkdir -p /vol/web/static Static file folder required for JavaScript, CSS etc

RUN adduser -D user Create a user to run the application within the container image (best practice in docker is to run application with a user who has less privilege than root user

RUN chown -R user:user /vol Set permission on the above volume for the user, user recursively throughout the directory

RUN chmod -R 755 /vol/web User has full access. Groups and other - read, execute

RUN chown -R user:user /rlcs\_app Change ownership of app folder to user

RUN chmod +x /rlcs\_app/\* Change to executable everything in app folder

USER user Switch to the new user we created

CMD ["entrypoint.sh"] Script used to start that application (run uWSGI and start the application) uWsgi is a tool used to run Python applications in production

**Contents of entrypoint.sh**

python manage.py collectstatic -noinput Collect all the static files for project and put them in the static root. Proxy (Nginx) can serve the static files more efficiently

python manage.py migrate Runs migration on container startup

python manage.py createsu Creates Superuser in the container

python manage.py loaddata dropdowns.yaml Populates all the dropdown fields in the cases app model

uwsgi --socket :8000 --master --enable-threads --module cst8333.wsgi

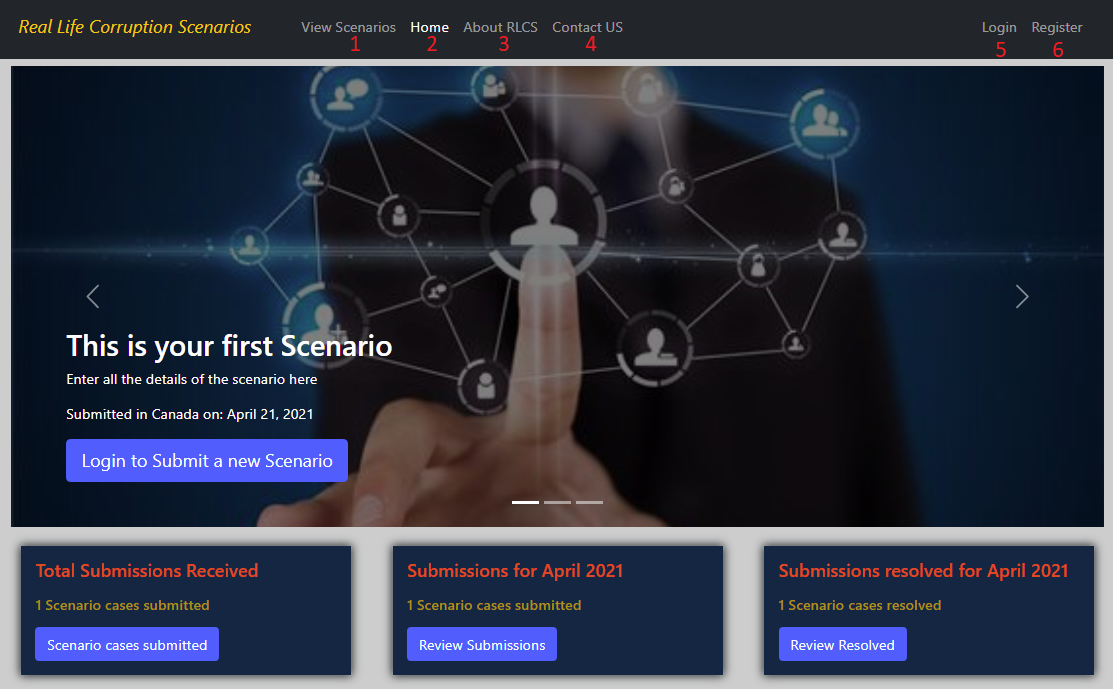
Command that runs the application using uWSGI (starts project and runs it in a uWSGI service)

Run it in the foreground serving the application rather in the background task

# Using the application

## Home Page

When you access the application for the first time, there are a few defaults that have been created to start you off.



You are greeted on the home page with some metrics and the latest 3 scenarios that have been submitted.

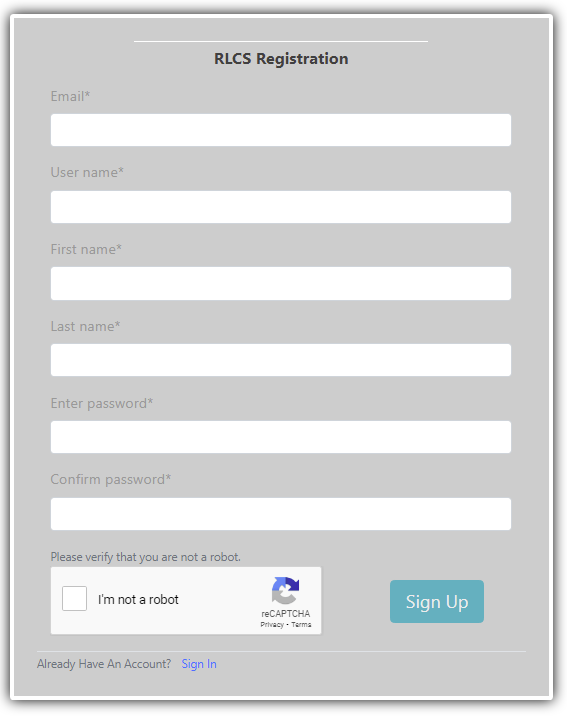
From here you can:

1. **View Scenarios:** A list of all the reviewed scenarios. If you are logged in, you will also see a list of scenarios you’ve submitted that have not been published publicly yet, and if you are a reviewer or admin, you will see all scenarios submitted, even if they are not published.
2. **Home:** return to the home page
3. **About RLCS:** a page that describes the purpose of RLCS
4. **Contact Us:** redirect to the CCEAC contact us page
5. **Login:** login to RLCS if you already have an account
6. **Register:** if you don’t have an account, you can register for one here.

# Account Management

## Account registration

Account registration requires the following information:



Once you’ve signed up, you will receive an email with a verification link. Click on that link to activate your account before you can login for the first time.

## Roles

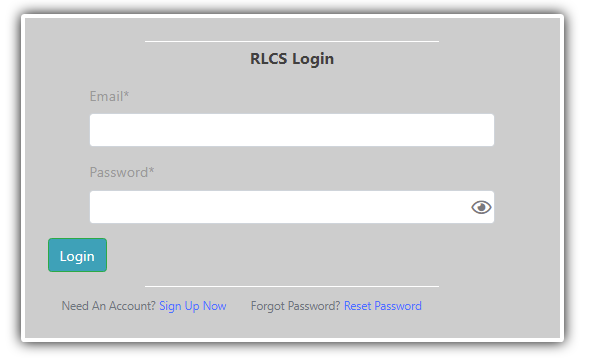
**Submitter:** By default, all accounts created this way will have the **Submitter** role, which gives them access to submit new scenarios and edit their own scenarios. When a new scenario is submitted, it is not public yet until a user with the Reviewer role publishes it.

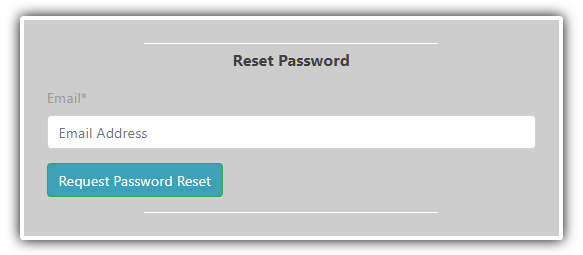
**Reviewer:** This role has the ability to review scenarios before **Publishing** them.

**Admin:** This is a Super User who can access the Admin Console and modify dropdown values, create new users, and assign roles.

## Login and Reset Password

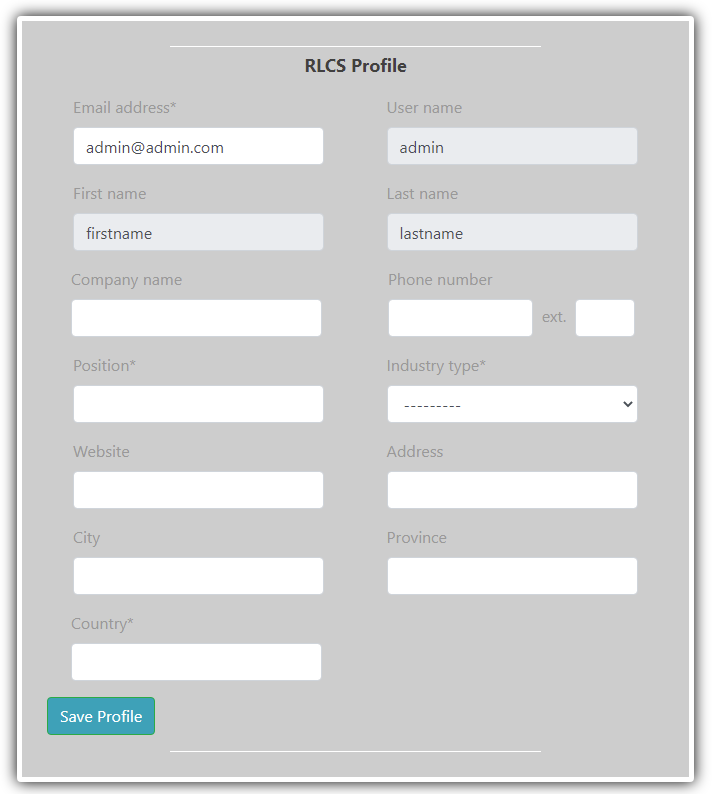
The login and reset password process is straight forward. Enter your credentials and click **Login**, or click on the **Reset Password** link.





An email will be sent with instructions on how to reset your password once you enter your email and click on **Request Password Reset**

Once you login, you will be presented with a profile page to complete additional details.



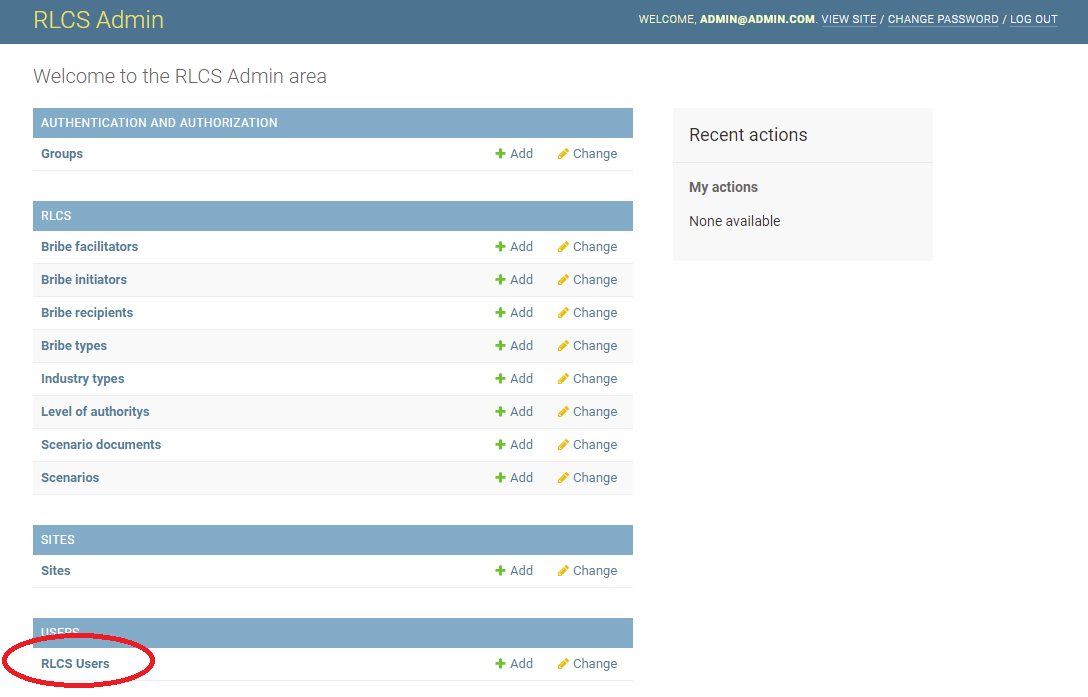
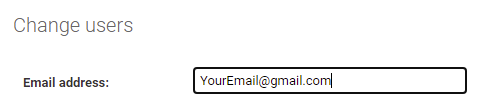
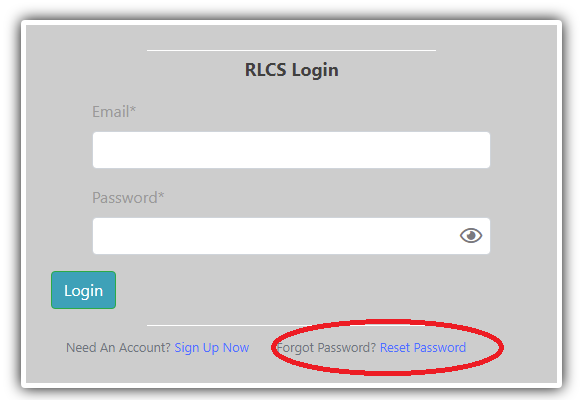
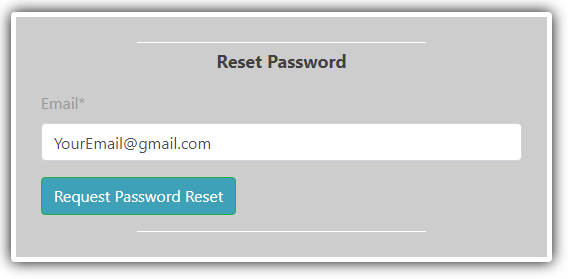
## Default Admin Account

By default, an admin account has been created to be able to login for the first time, access the admin console, and create new reviewers and administrators.

Default email: [admin@admin.com](mailto:admin@admin.com)  
Default password: 12345678

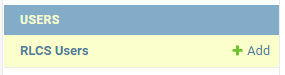
This is not secure and should be changed immediately upon running the application for the first time.

## Reset Default Admin Password

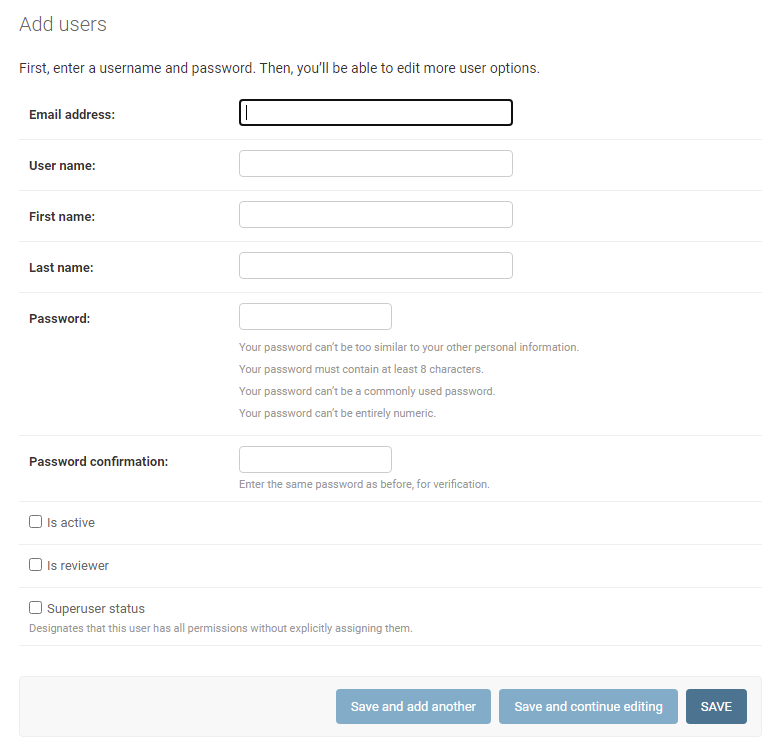
1. Login to RLCS with the default admin account from above
2. Click on the  icon to access the admin console.
   1. Note: Only those with superuser access can access the admin console.
3. On the **RLCS Admin page**, click on **RLCS Users**
4. Click on the [admin@admin.com](mailto:admin@admin.com) account
5. Change the email address to your own email address and then click  at the bottom of the page  
   
6. Click on **VIEW SITE** at the top of the page to return to the RLCS app.  
   
7. Click on  at the top right corner of the page
8. Click on  at the tope right corner of the page
9. Click on **Reset Password** at the bottom of the login form  
   
10. Enter your email address that you just changed in the Admin Console and click **Request Password Reset**  
    
11. Follow the instructions in the email to reset the password.

## Creating New Reviewers and Admins

To create a new Reviewer or Admin, you can either have someone register through the RLCS interface, or through the Admin console by clicking the  button in the **USERS** section.



Fill in the required fields and can assign the **Is reviewer** role or the **Superuser status** at the same time.



**IMPORTANT! Make sure you add the checkmark for Is active or else the user will not be able to login.**

# **Scenario Workflow**

## Submitting a Scenario

Once you’ve logged in with a **Submitter** account, you can go to the **View Scenarios** section and click on 

Fill in as much details on the form that you can provide as this will help others searching through the scenarios.

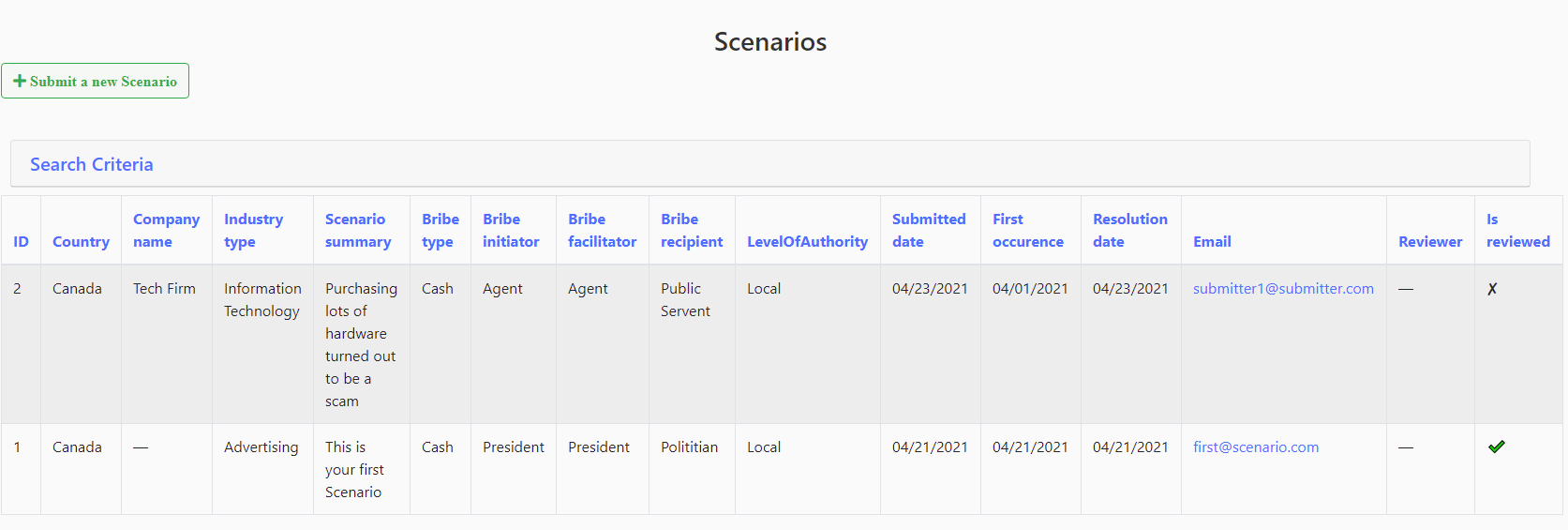
**Note:** You have the option to hide your Company name, Region, Location and Public Email from the public but it will be visible to the submitter who submitted the scenario, and all Reviewers and Admins of the RLCS system, by checking the following box:

****

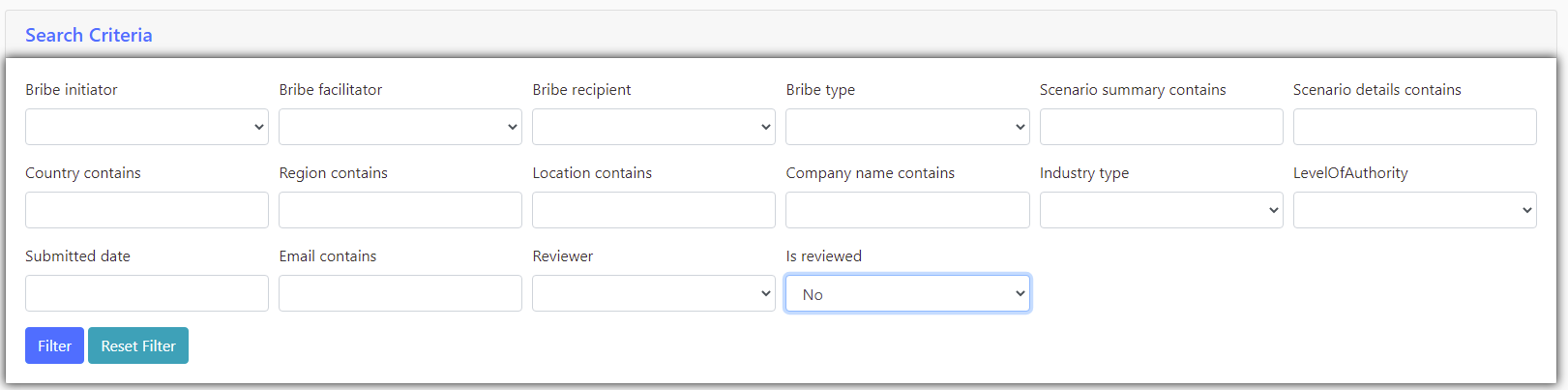
Once you are done, use the  button to send your scenario for Review.

## Reviewing a Scenario

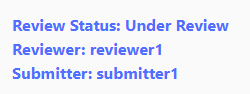
1. Login to the RLCS application with a user that has the **Reviewer** role and click on **View Scenarios**



1. You can see in the **Is Reviewed** column either an or . Look for scenarios with the  indication to start reviewing it.  
     
   You can also use the **Search Criteria** section to filter through the scenarios for those that are not reviewed yet.



You can see who is currently reviewing the scenario, who submitted it, and the current status of the scenario at the top right portion of the scenario page.



1. Click on the button to assign the scenario to yourself as well as make changes to the scenario.
2. Once the Reviewer is satisfied with the scenario, they can publish it publicly by clicking on the  button.

## Editing a scenario

Only the original submitter, Reviewers and Admins can modify a scenario. Once it has been modified, it will lose it’s Reviewed status and need to be reviewed again before it is displayed publicly.