Troubleshooting ArcGIS API for JavaScript Tasks

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Overview

- What are tasks?
- Common Issues
- Additional Resources

What are tasks?

```
require(["esri/tasks/Task"], function(Task) { /* code goes here */ });
```

- **Classes to interact with operations of ArcGIS Services**
- **Asynchronous**
- **URL property to a service**

- **Types of Services**
  - **Geoprocessing services** (PrintTask, Geoprocessor, GeometryService)
  - **Geocoding services** (Locator)
  - **Routing services** (RouteTask , ServiceAreaTask, ClosestFacilityTask)
  - **Map and Feature services** (IdentifyTask, QueryTask, FindTask)
  - **Image services** (ImageIdentifyTask)

Tasks Support Classes

- Parameters
- Results

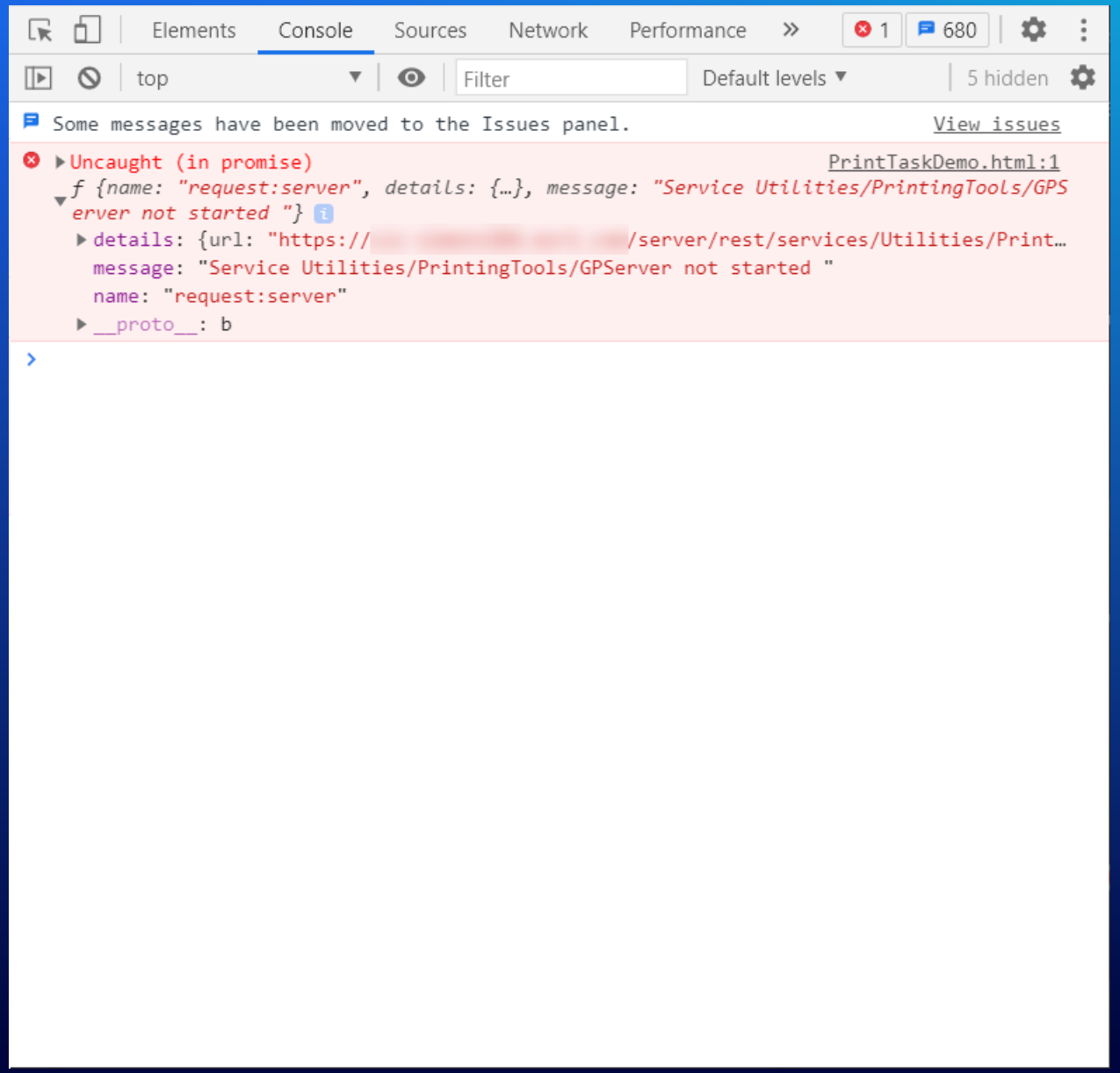
- Pattern for task
  - Create the task
  - Specify the parameters
  - Use the result

Common Issues

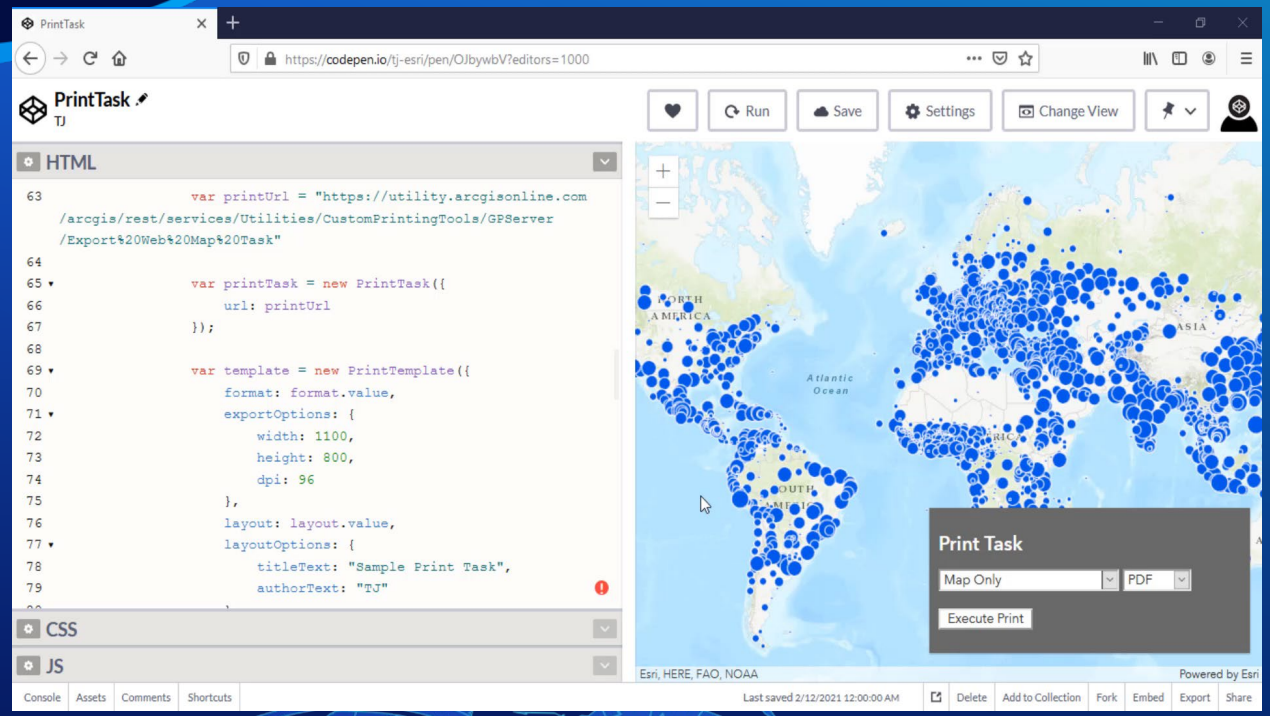
- Issues with the service
- Problems with parameters
- Working with results

Issues with the Service

- Service Not Found
- Unauthorized or token required
- CORS
- Not Started
- Timeout



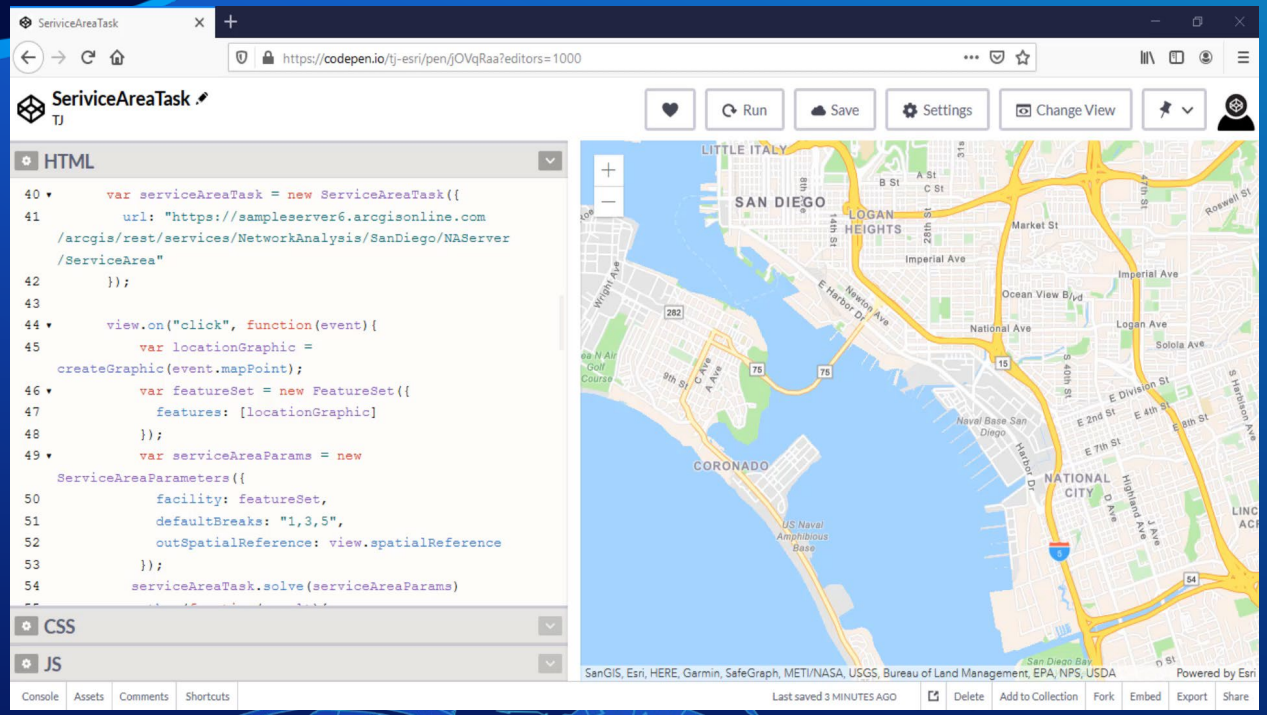
PrintTask Demo



Problems with Parameters

- Error: “Unable to complete operation”
- Errors that return an unexpected result.
- Troubleshooting Techniques
  - Test from rest endpoint of the service
  - Reduce the number of parameters

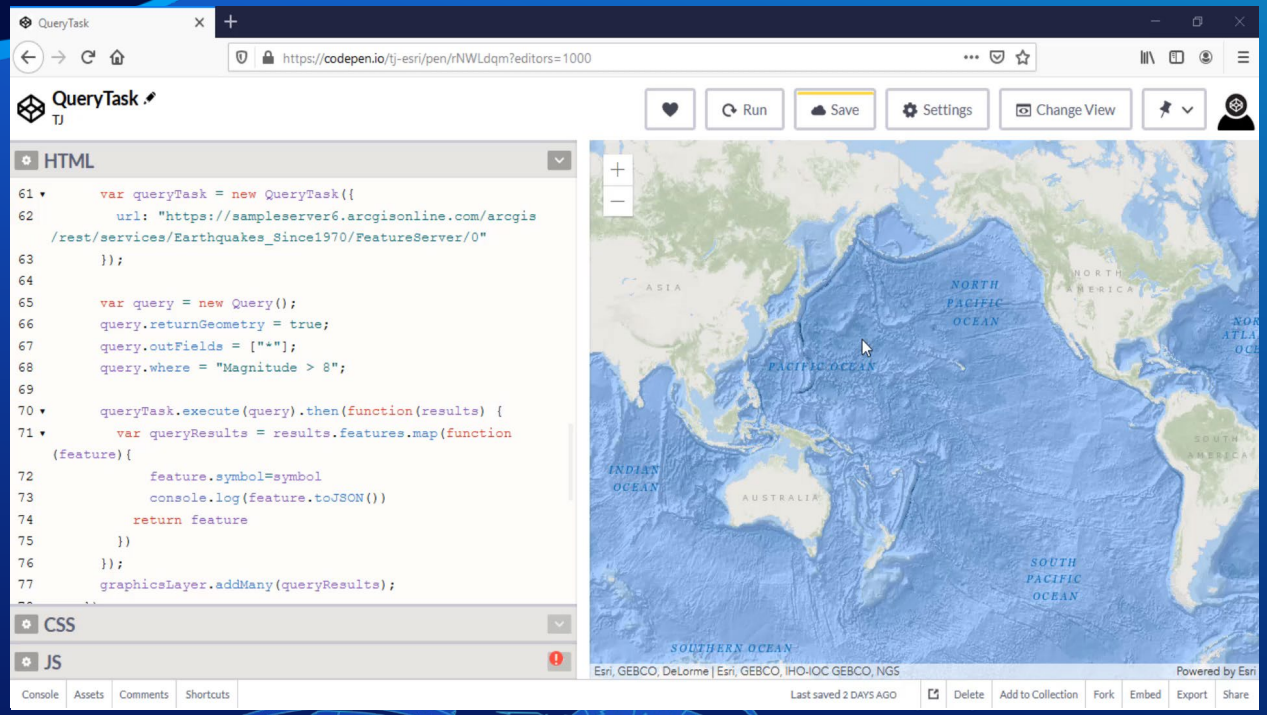
ServiceAreaTask Demo



Troubleshooting Results

- Type errors
- Reference errors
- Console log the results

QueryTask Demo



Additional Resources

ArcGIS API for JavaScript API Reference

- https://developers.arcgis.com/javascript/latest/api-reference/
- https://developers.arcgis.com/javascript/latest/api-reference/esri-tasks-Task.html
- https://developers.arcgis.com/javascript/latest/programming-patterns/#promises

ArcGIS REST API Documentation

- https://developers.arcgis.com/rest/
- https://developers.arcgis.com/rest/services-reference/resources-and-operations.htm

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