Standalone-Script

OneWorld Application

Department of the Interior  
Email & Collaboration Solution

|  |  |
| --- | --- |
| Submitted to  U.S. Department of the Interior  U. S. Geological Survey. (USGS)  James Connor  [james\_connor@ios.doi.gov](mailto:james_connor@ios.doi.gov)  Submitted [January 6, 2020] | Submitted by  The Planet Team  Antonio Sandoval  Program Manager  Planet Technologies  [asandoval@go-planet.com](mailto:asandoval@go-planet.com)  [antonio\_sandoval@ios.doi.gov](mailto:antonio_sandoval@ios.doi.gov)  Brian Vos  Development Lead  Planet Technologies  [bvos@go-planet.com](mailto:bvos@go-planet.com)  [brian\_vos@ios.doi.gov](mailto:brian_vos@ios.doi.gov) |

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Contents

[Document History 2](#_Toc30154970)

[OneWorld 3](#_Toc30154971)

[Introduction 3](#_Toc30154972)

[Existing solution description 3](#_Toc30154973)

[Other Discoveries 3](#_Toc30154974)

[Web API Calls 4](#_Toc30154975)

[Requirements 4](#_Toc30154976)

[Script Steps: 4](#_Toc30154977)

[Functional Requirements: 5](#_Toc30154978)

[Data Requirements: 5](#_Toc30154979)

[Permissions: 5](#_Toc30154980)

[Screenshots: 6](#_Toc30154981)

[Level of Effort 12](#_Toc30154982)

[Proposed solution: 12](#_Toc30154983)

[Roles required: 12](#_Toc30154984)

[Effort and tasks: 12](#_Toc30154985)

[Schedule Impacts 13](#_Toc30154986)

[Acceptable downtime: 13](#_Toc30154987)

[Drive & Mail Migration Consideration 13](#_Toc30154988)

[Solution Sign – Off 13](#_Toc30154989)

[Requirements 13](#_Toc30154990)

[Testing 13](#_Toc30154991)

[Release 14](#_Toc30154992)

# Document History

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Version | Implemented By | Revision Date | Approved By | Approval Date | Reason |
| 0.1 | The Planet Team | 1/06/2020 |  |  | Drafted |
| 0.2 | The Planet Team | 1/14/2020 |  |  | Updated with Security Detail |

# OneWorld

## Introduction

This document serves as the requirements to recreate the existing OneWorld Google Application with Microsoft Azure Cloud platform. Please note that we are only recreating existing features of the Google Application and we will not be adding additional functionality or changing how the script operated. In the rare circumstance that we are not fully able to recreate the complete functionality of the Application in Microsoft, we will document the gap and provide alternatives for considerations.

## Existing solution description

Website to deliver real-time web-based reporting. Simple interface provides ability to navigate between categories, reports, and filter to view charts and tables with data sourced into MySQL relational database backend. MySQL database backend hosts source data and is modified directly from on-premise import jobs. Front end HTML/CSS/JS provides web based interface to navigate data, submit forms, and view forms.

1. OneWorld Homepage Navigation with two category both Minerals and Global
2. Mineral page - table and chart display with filters
3. Global page - table and chart display with filters
4. Nested form within OneWorld for “Mineral – Specialists”
5. Nested form within OneWorld for “Mineral – Supervisors”
6. Nested form within OneWorld for “Mineral – Series Request”
7. Nested form within OneWorld for “Global – Specialists”
8. Nested form within OneWorld for “Global – Supervisors”
9. Nested form within OneWorld for “Global – Series Request”
10. Email address [nmicsystems@usgs.gov](mailto:nmicsystems@usgs.gov) used for support
11. Daily schedule jobs (4) for email and database query

Users relying on the solution:

All of USGS staff that may browse and view reports.

### Other Discoveries

* User direct edit for table and chart data series
* Double clicking numbers on table allows direct data editing
* Nested subforms. 3 for Global and Mineral. 6 total.
* Scheduled Email Jobs. 4 total.
* In flight current development effort with new Splash page.

### Web API Calls

Below HTTP calls retrieve JSON data for current web from end user experience. API calls are made to <https://script.google.com/a/ios.doi.gov/macros/s/AKfycbx2PS-M5pN_QBvgvhPdK0dm2JCgbYGoQS8zs0gGh_tmGA5vsSo/callback?nocache_id=8&token=AJuLMu05PIfp1W-bFNb_oVwRp43tnk3UmA%3A1579111832193> with varied JSON parameters for request formatting.

## Requirements

### Script Steps:

1. User navigates to [OneWorld](https://docs.google.com/forms/d/e/1FAIpQLSejvBlmP2bnoz2IJiH9UjQzjtmcMarzXHOYRBnCRLMGfHiugw/viewform) web application
2. User selects either “Global” or “Mineral” on splash page
   1. Provide “Commodity” and ”Year” filter selection
   2. Refreh table to display data
3. User selects OneWorld for “Mineral – Specialists”
   1. Complete input fields and clicks Submit
   2. Data record saved to MySQL table
4. User selects OneWorld for “Mineral – Supervisors”
   1. Complete input fields and clicks Submit
   2. Data record saved to MySQL table
5. User selects OneWorld for “Mineral – Series Request”
   1. Complete input fields and clicks Submit
   2. Data record saved to MySQL table
6. User selects OneWorld for “Global – Specialists”
   1. Complete input fields and clicks Submit
   2. Data record saved to MySQL table
7. User selects OneWorld for “Global – Supervisors”
   1. Complete input fields and clicks Submit
   2. Data record saved to MySQL table
8. User selects OneWorld for “Global – Series Request”
   1. Complete input fields and clicks Submit
   2. Data record saved to MySQL table
9. Email sent overnight scheduled jobs.
   1. RevisionExpiredCheck -Email summary of expired Series Requests.
   2. ExpiredAutoagree -Email summary of expired all other data (Table Submissions).
   3. DailyCleanup -Database internal only. No email.
   4. FinishedCheck - Email summary of finished daily data check.

### Functional Requirements:

1. Splash Page
2. Mineral- Table Display
   1. Specialists - View All
   2. Specialists - View Single
   3. Specialists - Submit New
   4. Specialists - Approve/Disapprove
   5. Supervisors - View All
   6. Supervisors - View Single
   7. Supervisors - Submit New
   8. Series Request - View All
   9. Series Request - View Single
   10. Series Request - Submit New
3. Global – Table Display
   1. Specialists - View All
   2. Specialists - View Single
   3. Specialists - Submit New
   4. Specialists - Approve/Disapprove
   5. Supervisors - View All
   6. Supervisors - View Single
   7. Supervisors - Submit New
   8. Series Request - View All
   9. Series Request - View Single
   10. Series Request - Submit New
4. MySQL Workbench Permission Grant
5. MySQL Scheduled Data Jobs
6. MySQL Scheduled Daily Email Jobs

### Data Requirements:

We confirmed that the product stakeholders can make a copy of the existing data if necessary. We will attempt to migrate the data and the stakeholder should make a copy as a contingency. There are no external data sources.

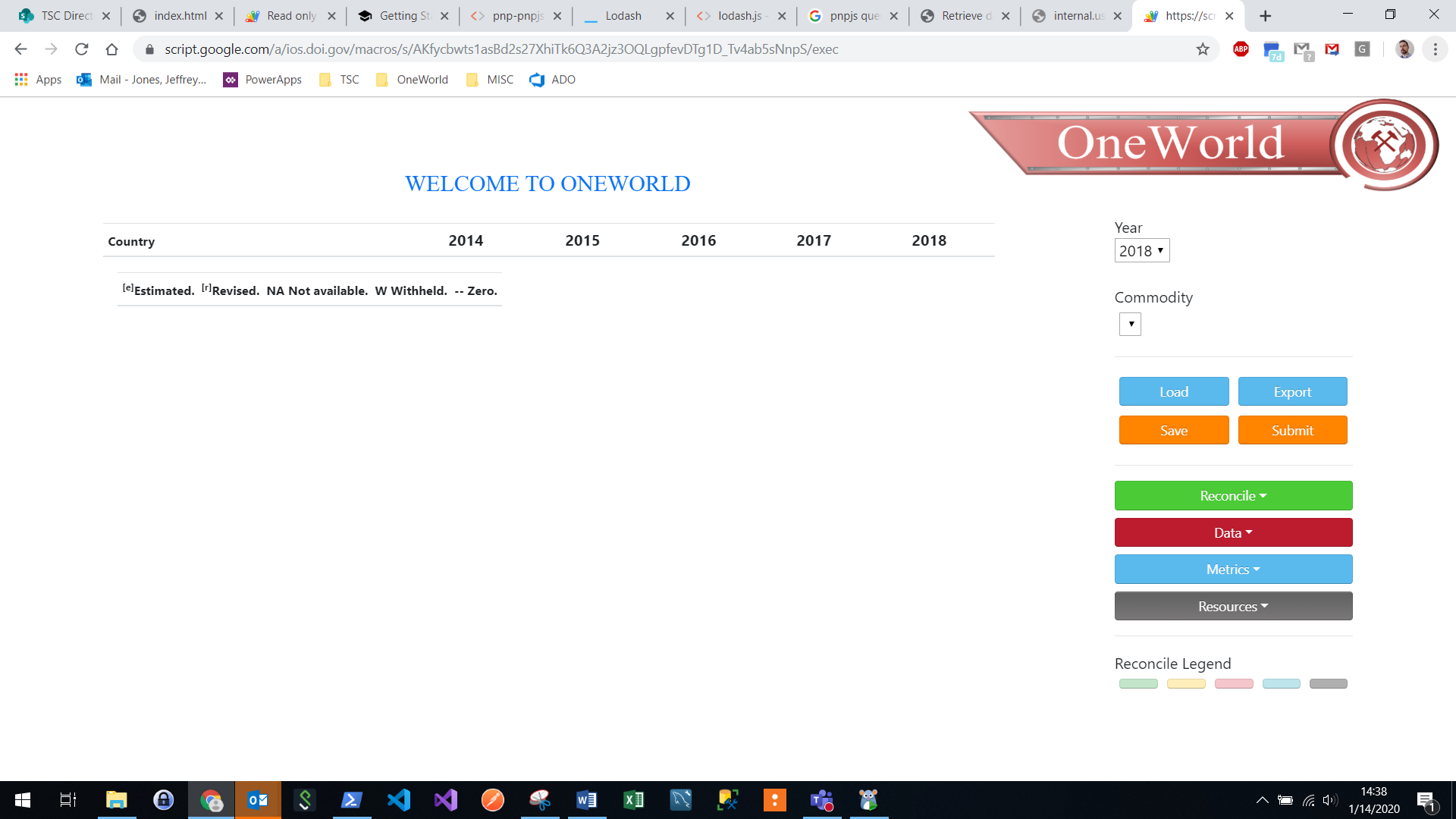
### Permissions:

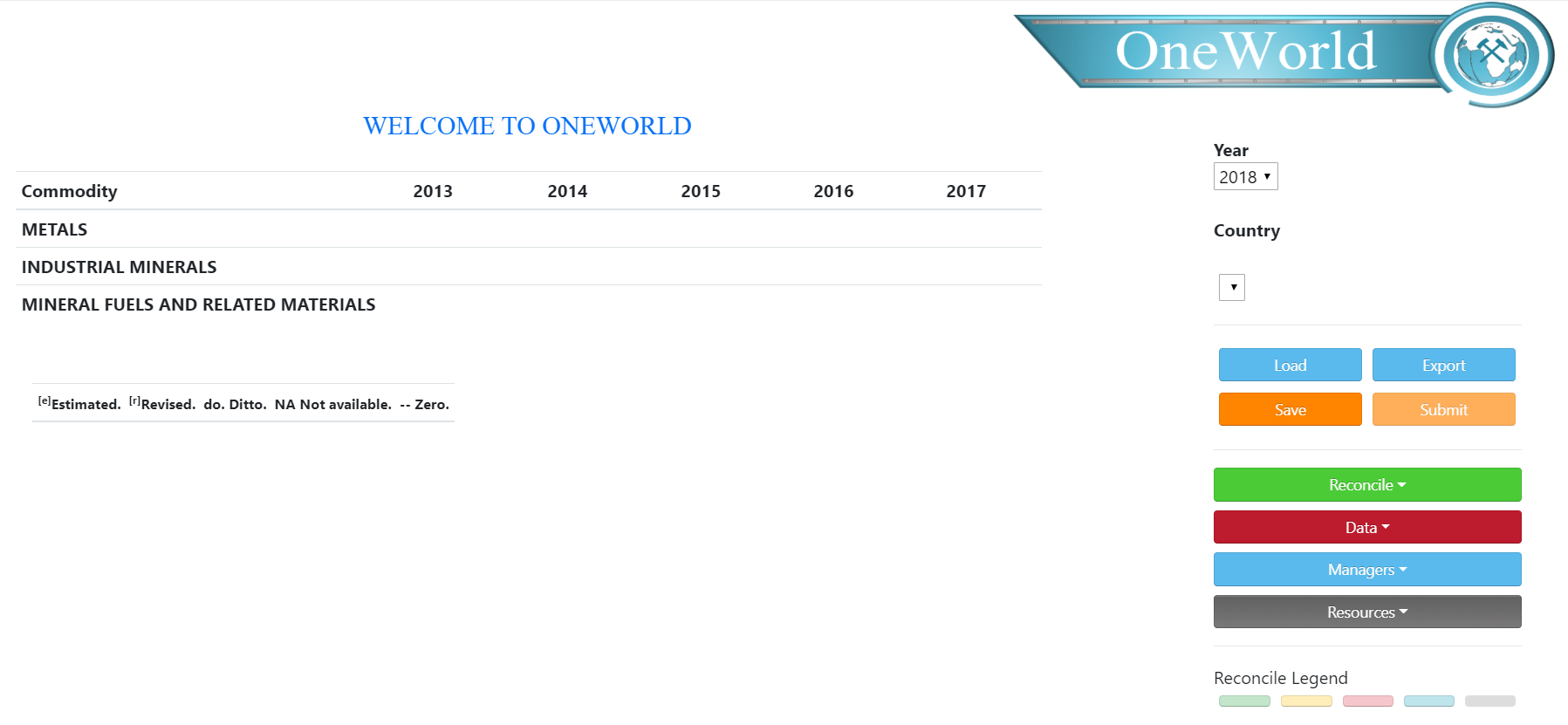
OneWorld splash page is available to anyone on the DOI network. Users are granted permission by adding to MySQL directly MySQL Workbench to add new specialist with table access role. API calls during OneWorld load read this input data to determine which interface to display. We will include the same permissions.

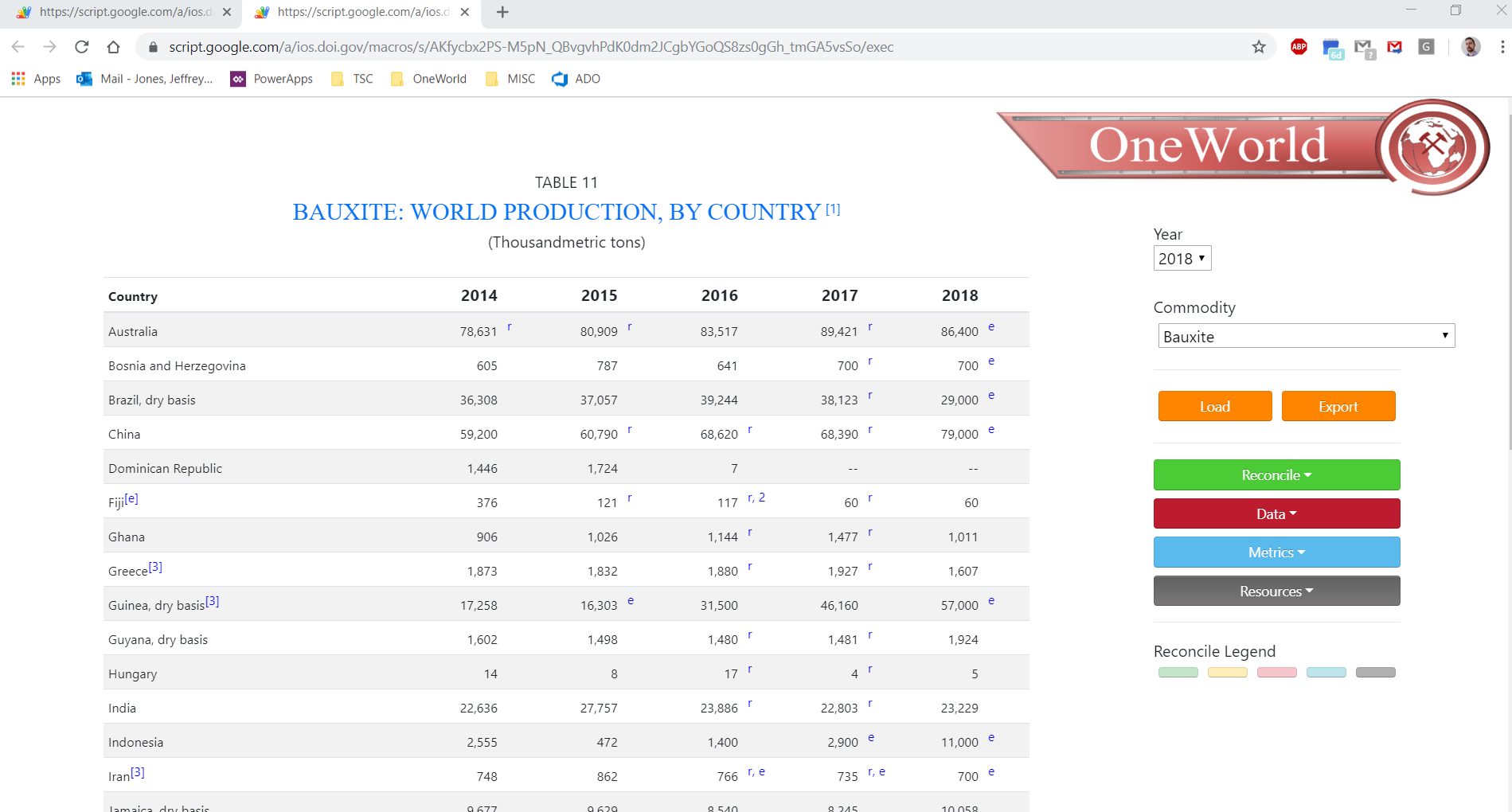
<https://script.google.com/a/ios.doi.gov/macros/s/AKfycby28UTSaigRJvK7Gg4XOzHDfWRhB8XIhue88nEXUqoyRWIykt8/exec>

### Screenshots:





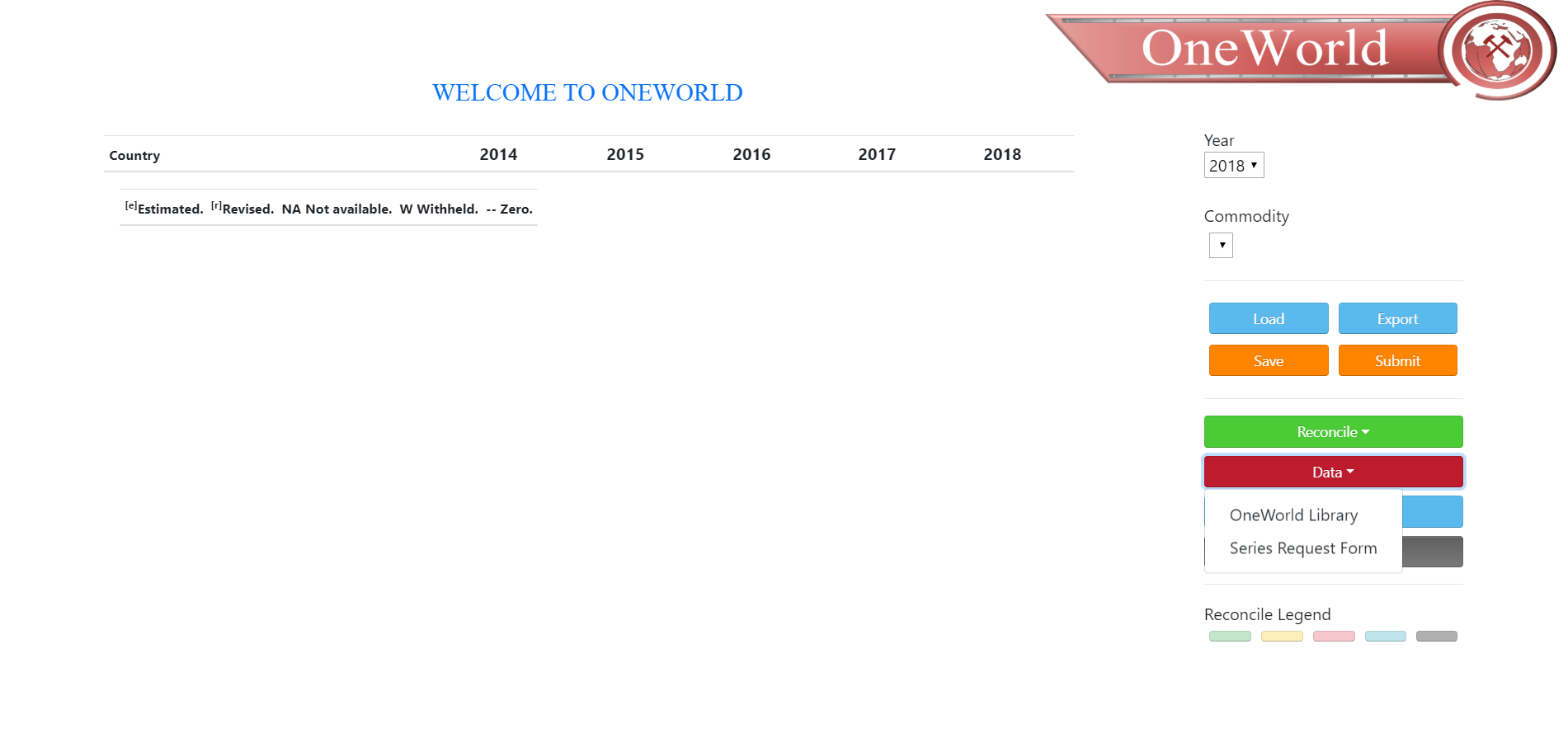


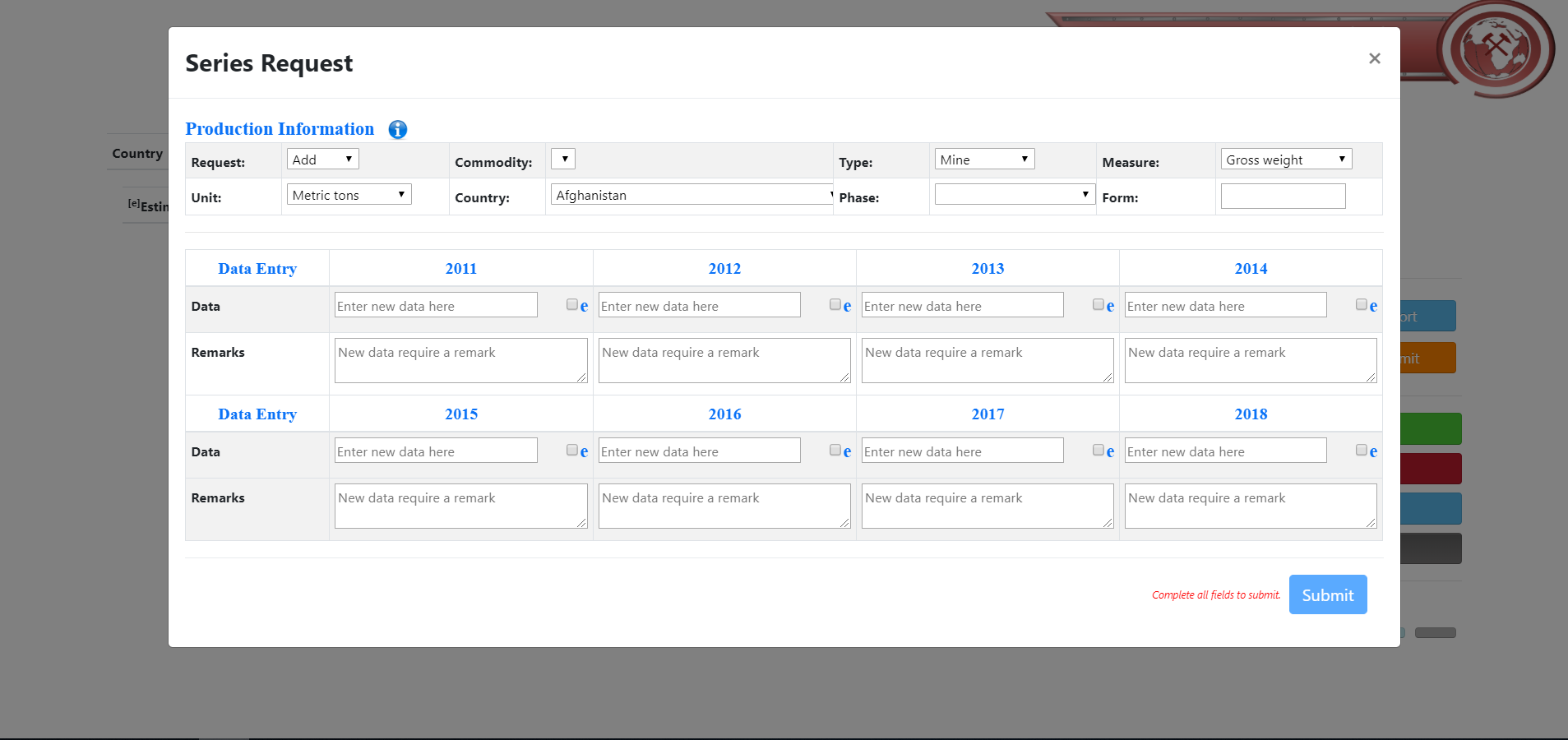






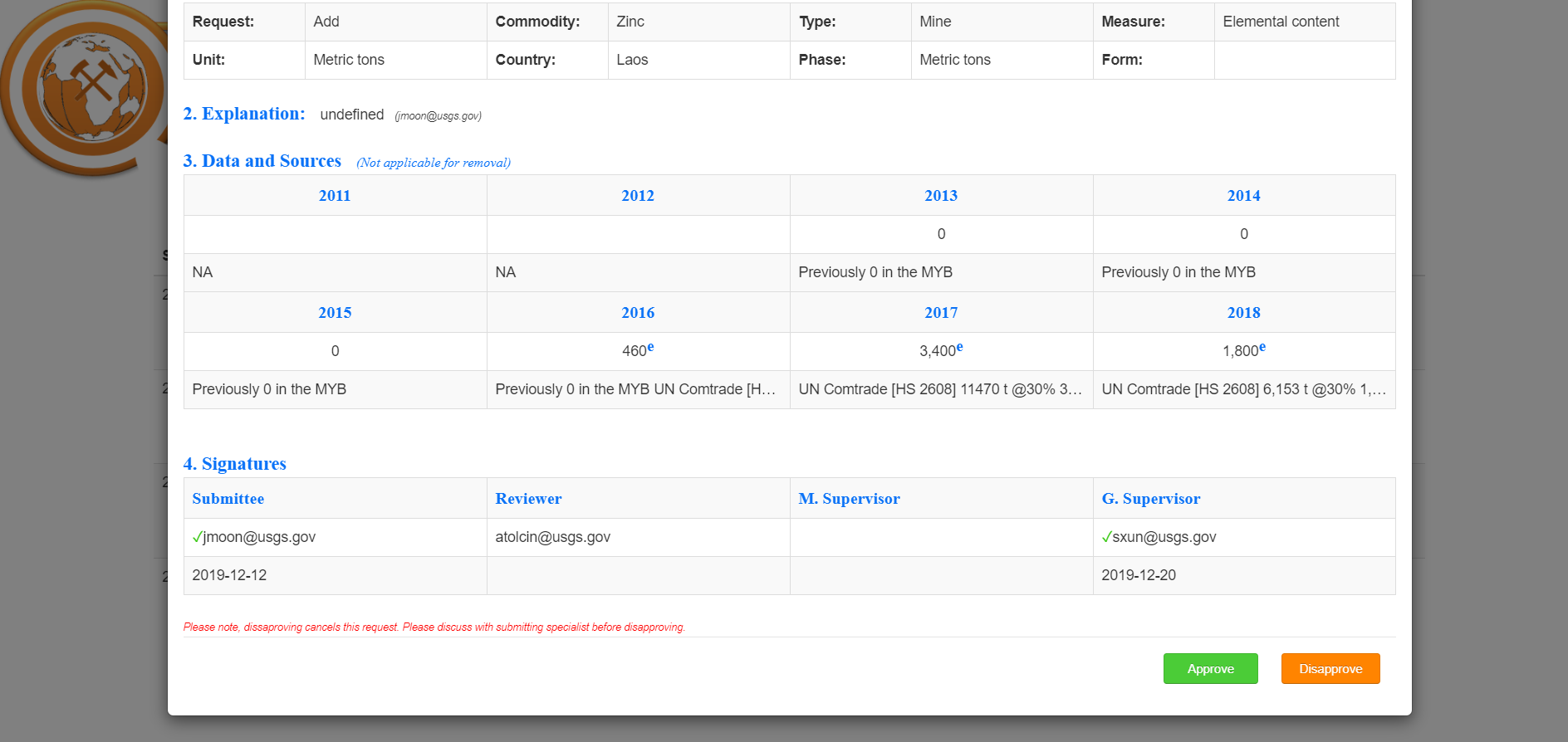


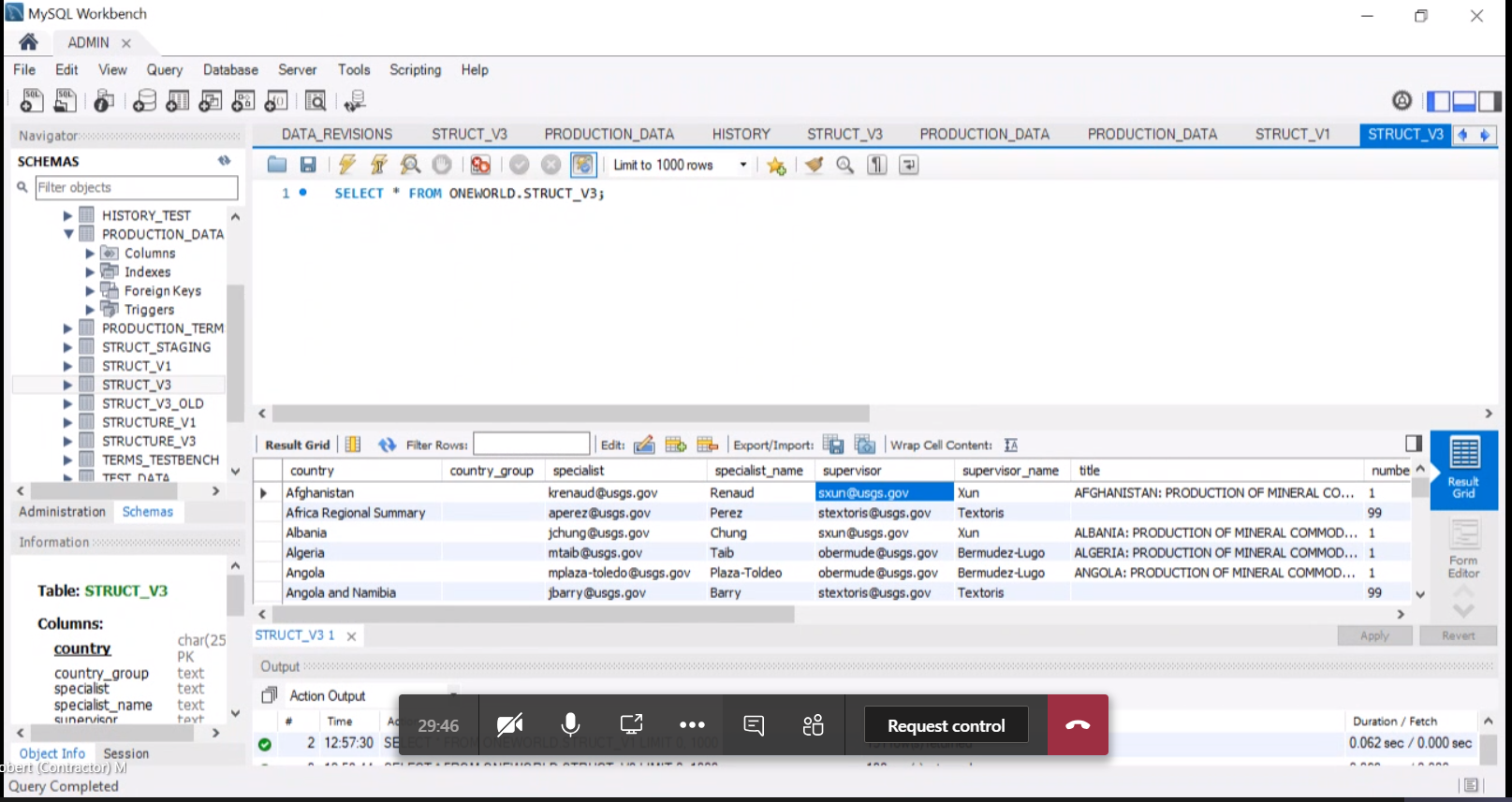


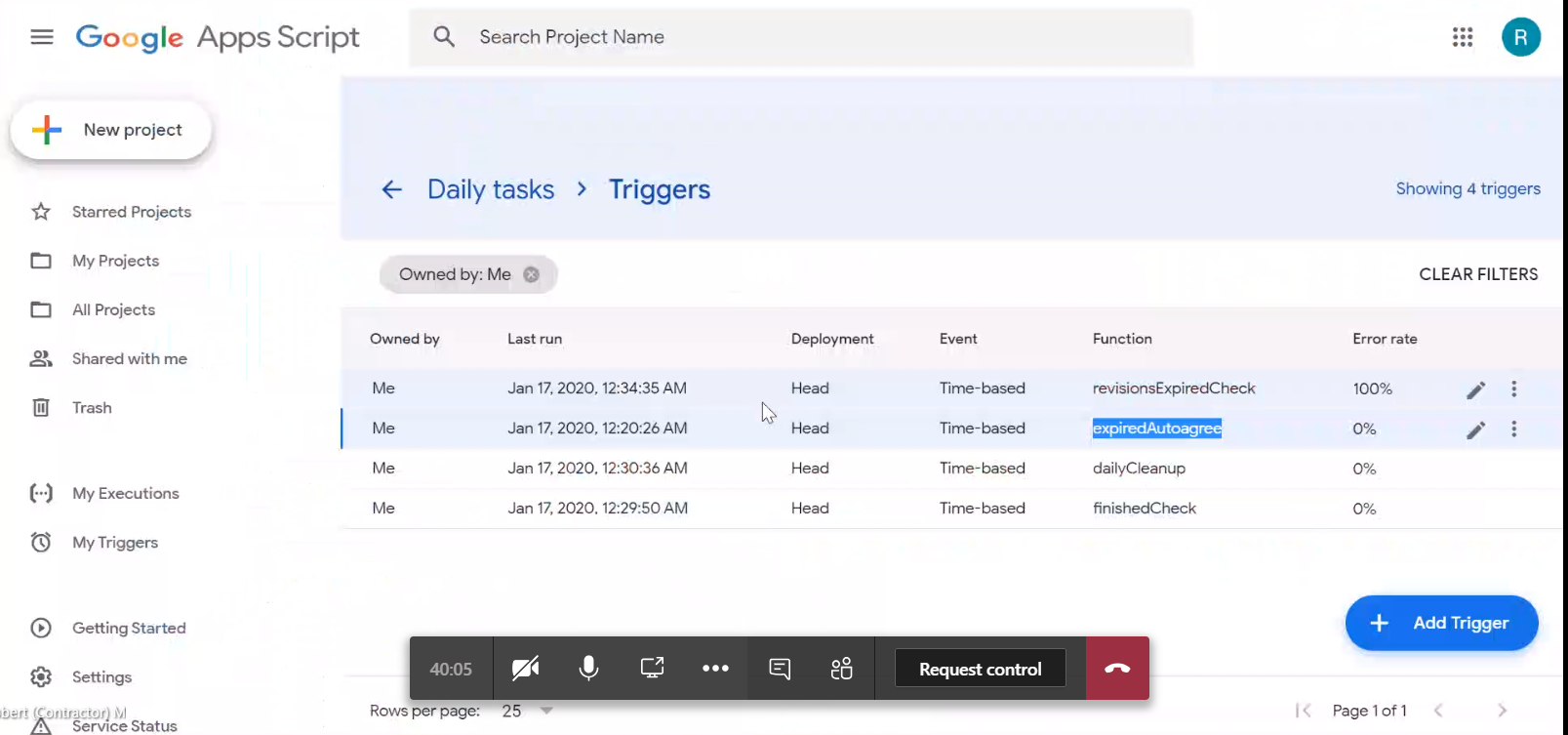












## Level of Effort

### Proposed solution:

The migration team proposes the use of an Azure hosting with two key components: (1) MySQL relational database and (2) Azure website web front end HTML/API combination. The OneWorld Application can be redeveloped using Azure to allow the most flexibility and security.

### Roles required:

* Transition Team
  + Project Manager – Rob Schnorr
    - [robert\_schnorr@ibc.doi.gov](mailto:robert_schnorr@ibc.doi.gov)
    - [rschnorr@definitivelogic.com](mailto:rschnorr@definitivelogic.com)
  + 1 Developer – Jeff Jones
    - [jeffrey\_jones@ios.doi.gov](mailto:jeffrey_jones@ios.doi.gov)
  + 1 Tester – Claire Clark
    - [claire\_clark@ios.doi.gov](mailto:claire_clark@ios.doi.gov)
* DOI Team
  + Subject Matter Expert – Robert Cranyon
    - [rcraynon@contractor.usgs.gov](mailto:rcraynon@contractor.usgs.gov)
  + Azure Hosting – James Connor
    - [james\_connor@ios.doi.gov](mailto:james_connor@ios.doi.gov)

### Effort and tasks:

|  |  |  |
| --- | --- | --- |
| Task | Roles Required | Dates |
| Initial Discovery Call | Transition PM  DOI SME | 11/22/2019 |
| Gather requirements | Transition PM  Transition Developer  DOI SME | 12/12/2019-1/21/2020 |
| Requirements signoff | Transition PM  DOI SME | 1/21-1/24 |
| Design | Jeff Jones | [Add Timeframes] |
| Build | Jeff Jones | [Add Timeframes] |
| Test | Transition PM  Transition Developer  Transition Tester  DOI SME  DOI Tester | [Add Timeframes] |
| Training/Communication | DOI SME | [Add Timeframes] |
| Deployment/Rollout | Transition PM  Transition Developer  DOI SME | [Add Timeframes] |

## Schedule Impacts

### Acceptable downtime:

The solution is most used with regular frequency and without noticeable season spikes. It is acceptable that the solution is down briefly during Q1.

## Solution Sign – Off

This section documents milestones of the Script migration from Google to Microsoft.

### Requirements

The solution was validated by [Customer Name] on [Date].

### Testing

The solution was validated by [Customer Name] on [Date].

### Release

The solution was released by [Customer Name] on [Date].

## Appendix 1 – WebPI Table

## 

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Application View** | **Interface Event** | **JSON Parameter** |
| 1 | OneWorld - Minerals | Page Load | GetUsableColumns |
| 2 | OneWorld - Minerals | Load Button Click | ["getData","[\"Bauxite\",2018]",null,[0],null,null,true,0] |
| 3 | OneWorld - Minerals | Load Button Click | ["getMetadata","[\"Bauxite\"]",null,[0],null,null,true,0] |
| 4 | OneWorld - Minerals | Series Request - View All |  |
| 5 | OneWorld - Minerals | Series Request - View Single |  |
| 6 | OneWorld - Minerals | Series Request - Submit New |  |
| 7 | OneWorld - Minerals | Series Request - Approve/Disapprove |  |
| 8 | OneWorld - Minerals | Specialists - View All |  |
| 9 | OneWorld - Minerals | Specialists - View Single |  |
| 10 | OneWorld - Minerals | Specialists - Submit New |  |
| 11 | OneWorld - Minerals | Specialists - Approve/Disapprove |  |
| 12 | OneWorld - Minerals | Supervisor - View All |  |
| 13 | OneWorld - Minerals | Supervisor - View Single |  |
| 14 | OneWorld - Minerals | Supervisor - Submit New |  |
| 15 | OneWorld - Minerals | Supervisor - Approve/Disapprove |  |
| 16 | OneWorld - Minerals | Page Load | GetUsableColumns |
| 17 | OneWorld - Minerals | Load Button Click | ["getData","[\"Bauxite\",2018]",null,[0],null,null,true,0] |
| 18 | OneWorld - Minerals | Load Button Click | ["getMetadata","[\"Bauxite\"]",null,[0],null,null,true,0] |
| 19 | OneWorld - Minerals | Series Request - View All |  |
| 20 | OneWorld - Minerals | Series Request - View Single |  |
| 21 | OneWorld - Minerals | Series Request - Submit New |  |
| 22 | OneWorld - Minerals | Series Request - Approve/Disapprove |  |
| 23 | OneWorld - Minerals | Specialists - View All |  |
| 24 | OneWorld - Minerals | Specialists - View Single |  |
| 25 | OneWorld - Minerals | Specialists - Submit New |  |
| 26 | OneWorld - Minerals | Specialists - Approve/Disapprove |  |
| 27 | OneWorld - Minerals | Supervisor - View All |  |
| 28 | OneWorld - Minerals | Supervisor - View Single |  |
| 29 | OneWorld - Minerals | Supervisor - Submit New |  |
| 30 | OneWorld - Minerals | Supervisor - Approve/Disapprove |  |

## Appendix 2 – SQL SELECT

|  |  |  |
| --- | --- | --- |
| **ID** | **Line No** | **SQL Statement** |
| 1 | 304 | var stmt\_admin1 = conn.prepareStatement("SELECT COMMODITY |
| 2 | 305 | var stmt\_admin3 = conn.prepareStatement("SELECT COUNTRY |
| 3 | 306 | var stmt\_minerals = conn.prepareStatement("SELECT DISTINCT COMMODITY |
| 4 | 307 | var stmt\_status = conn.prepareStatement("SELECT DISTINCT COMMODITY |
| 5 | 308 | var stmt\_gprogress= conn.prepareStatement("SELECT COUNTRY FROM ONEWORLD.STRUCT\_V3 WHERE REC\_SUBMIT!='' AND REC\_TABLE='' order by country") |
| 6 | 309 | var stmt\_mprogress= conn.prepareStatement("SELECT COMMODITY FROM ONEWORLD.STRUCT\_V1 WHERE REC\_SUBMIT!='' AND REC\_TABLE='' order by commodity") |
| 7 | 310 | var stmt\_counts= conn.prepareStatement("SELECT \ |
| 8 | 316 | var stmt\_countsg= conn.prepareStatement("SELECT \ |
| 9 | 790 | var stmt\_struct = conn.prepareStatement("SELECT \ |
| 10 | 828 | var stmt\_struct = conn.prepareStatement("SELECT country\_group |
| 11 | 855 | var stmt\_super = conn.prepareStatement("SELECT distinct supervisor from STRUCT\_V3"); |
| 12 | 863 | stmt\_struct = conn.prepareStatement("SELECT commodity FROM ONEWORLD.STRUCT\_V1 where title is not NULL and title!='';"); |
| 13 | 864 | stmt\_struct2 = conn.prepareStatement("SELECT country FROM ONEWORLD.STRUCT\_V3") |
| 14 | 867 | var stmt\_struct = conn.prepareStatement("SELECT commodity from STRUCT\_V1 where specialist=? or supervisor=?"); |
| 15 | 868 | var stmt\_struct2 = conn.prepareStatement("SELECT country FROM ONEWORLD.STRUCT\_V3") |
| 16 | 893 | var stmt\_struct = conn.prepareStatement("SELECT filter\_commodity |
| 17 | 907 | var stmt = conn.prepareStatement("SELECT year1.key |
| 18 | 1025 | var stmt\_terms = conn.prepareStatement("SELECT v1\_footnote\_1 |
| 19 | 1121 | var stmt = conn.prepareStatement("SELECT year1.key |
| 20 | 1230 | var stmt\_terms = conn.prepareStatement("SELECT v1\_footnote\_1 |
| 21 | 1330 | var stmt\_usr1=conn.prepareStatement("SELECT specialist FROM ONEWORLD.STRUCT\_V3 where country=?") |
| 22 | 1331 | var stmt=conn.prepareStatement("UPDATE STRUCT\_V3 \ |
| 23 | 1335 | var stmt\_usr1=conn.prepareStatement("SELECT specialist FROM ONEWORLD.STRUCT\_V1 where commodity=?") |
| 24 | 1336 | var stmt=conn.prepareStatement("UPDATE STRUCT\_V1 \ |

## Appendix 3 –Scheduled Jobs

|  |  |  |
| --- | --- | --- |
| **ID** | **Scheduled Job** | **Notes** |
| 1 | RevisionExpiredCheck | Email summary of expired Series Requests. |
| 2 | ExpiredAutoagree | Email summary of expired all other data (Table Submissions). |
| 3 | DailyCleanup | Database internal only. No email. |
| 4 | FinishedCheck | Email summary of finished daily data check. |