CWE REST API Working Group Meeting – June 16, 2022

1) Call to order – recording
2) Agenda approval
3) Minutes approval
4) Regular order
   - Note – email list reflector: cwe-capec-rest-api-working-group-list@mitre.org
   - Note – GitHub: https://github.com/CWE-CAPEC/REST-API-wg
   - Note – CWE data response content: https://cwe.mitre.org/data/xsd/cwe_schema_latest.xsd
   - Note – Swagger: API Documentation & Design Tools for Teams | Swagger
   - Note – GraphQL and GraphQL Playground: https://graphql.org/
   - Review Luke's strawman REST request and response from last week
     o **Query for FULL database with REST (CWE or CAPEC), and**
        ▪ Developer queries entire database and builds underlying derivatives as needed in the client
     o **Query ONE ID in REST and get a full JSON of that ID**
        ▪ Simple query which helps develop tooling for more advanced queries if required
     o Query syntax
     o JSON response syntax
     o Elastic search makes things a little more flexible
     o Discussion to include/exclude/move "version" option
     o Parameterizing version is "fine
     o "Latest" seems like the hot default
     o In slides, 1st query gives "content/schema/endpoint" information
     o In slides, 2nd query targets A version
     o May be several types of users: enterprise that need stability, and quick hacks that can adapt more quickly
     o Need to develop "rules" for schema/content changes (how/when/what they are, and how to communicate them)
     o Some APIs DO use a versioning scheme in the request; some don't
     o Can always return error code (404, 500) for versions which no longer exist
     o Queue up motion: remove versioning from path
     o Keep "tree" view in path if certain view is required, but default to "all"
   - "Better view" of CWE db structure (Richard, Steve CC)
     o Steve presented PDF file up on GitHub: REST-API-wg/CWE-Entry-XML-Example-89.pdf at main · CWE-CAPEC/REST-API-wg (github.com)
     o Rich presented potential JSON
     o Tool called Oxygen turns XML into JSON
        ▪ Trips over xhtml content
     o "Fixed" JSON also presented
     o Discussion about "code" or other content beautification features translated from current CWE into "new" JSON reply – an xhtml discussion
   - Voting discussion
     o Alec should be involved
5) Action item review
   - Upload slides from this/last week (Luke)
   - Upload JSON examples to GitHub (Rich)
   - Provide a list of which fields go with which presentation filter (David R.)

- Use Cases (all)
- Tool to parse a schema and turn it into an image of classes/sub-classes (Altaz)
- Check Git for enhanced views of db content (all)

6) Adjourn