Requirements for D2 deliverable
Deadline for URL- Monday Week 6 at 5.00pm
Deadline - Monday Week 7 at 5.00pm

SENG3011

1. **Part 1 - Swagger documentation and a working API endpoint (by Monday Week 6 at 5.00pm).**

   Teams should have implemented the following functions:

   I. Deployment as a REST Web service with a clearly documented API
   II. Ability to make requests to the API
   III. Generating an output file (possibly with errors)

   You must document your API in swagger, host online and post the URL in your Github repository's README.md.

   API doesn’t need to be complete, but Swagger specification needs to be hosted online and API should be callable (through Swagger “Try it”) even though it may return incomplete results. If there are multiple API endpoints, or parameter combinations, if they all do not work, it is recommended to provide example API call that works in Swagger documentation. You may return a hard-coded or incomplete response.

2. **Part 2 - API Documentation, Implementation and Report (by Monday Week 7 at 5.00pm).**

   I. **API design details**

   Describe final architecture of your API, justify the choice of implementation, challenges addressed and shortcomings, in your Design Details report in Github. You may update management information if necessary.

   II. **API Testing**

   In Testing Documentation report, describe the testing processes used in the development of API, referring to the data and scripts included in Phase 1 folder. This should describe your testing environment and/or tools used, and limitations (e.g. things that are not tested). Describe your testing process i.e. how your team conducts testing using the test data (e.g. in which order) and an overview of test cases, testing data and testing results. Describe the output of testing and what actions you took to improve the test results.

   At D2 your Phase_1/TestScripts folder should contain:
   - Test input files
   - Test configuration files (if any)
   - Result files (if any)
   - Software or scripts used during testing (if any)
III. **SWAGGER API Documentation**

Your API documentation will be evaluated based on following criteria:

- Ability to run API calls with “Try it out”.
- Input documentation - Clear explanation of required input variables including their type, format, what they represent and if applicable, acceptable values, and example of use.
- Output Documentation - Example output response and description of the semantics of output (even though it is described in the spec, the students should not be making assumptions, that everything is the same between teams)

IV. **API Implementation**

You API implementation will be tested and evaluated according to following criteria:

- Output Correctness
- Log File - Exists and has the details such as team name, accessed time, data source
- Ease of the API use

**Marking Criteria**

<table>
<thead>
<tr>
<th>Part 1</th>
<th>Swagger documentation and working API endpoint (5%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part 2</td>
<td>Swagger API Documentation (20%)</td>
</tr>
<tr>
<td></td>
<td>API Implementation (35%)</td>
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<td></td>
<td>API Design (20%)</td>
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<td>API Testing (10%)</td>
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<td>Above and Beyond (10%)</td>
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For each criteria, the following marks are given:

- **A for outstanding work, this is above expectations**
- **B for very good work, this is for fulfilling all expectations**
- **C for good work, mostly correct but some expectations have not been met**
- **D for average work**
- **E for work that is below standard**
- **F Fail**