CLAIMS

1. A method, comprising:

receiving, by a device, application programming interface (API) specifications associated with APIs;

storing, by the device, the API specifications in a data structure associated with the device;

processing, by the device, the API specifications to identify:

a system level set of API specifications that includes API specifications utilized by multiple systems,

a release level set of API specifications that includes API specifications with different release dates, and

a version level set of API specifications that includes API specifications with different versions;

processing, by the device, the system level set of API specifications, with a machine learning model, to determine system level differences in the system level set of API specifications;

correcting, by the device, the system level set of API specifications, based on the system level differences, to generate a corrected system level set of API specifications;

causing, by the device, the corrected system level set of API specifications to be implemented in the multiple systems; and

replacing, by the device, the system level set of API specifications, in the data structure, with the corrected system level set of API specifications.

2. The method of claim 1, further comprising:

processing the release level set of API specifications, with the machine learning model, to determine release level differences in the release level set of API specifications;

correcting the release level set of API specifications, based on the release level differences, to generate a corrected release level set of API specifications; and

causing the corrected release level set of API specifications to be implemented in the multiple systems.

3. The method of claim 2, further comprising:

replacing the release level set of API specifications, in the data structure, with the

corrected release level set of API specifications.

4. The method of claim 2, further comprising:

providing, for display, the release level differences in the release level set of API specifications prior to correcting the release level set of API specifications based on the release level differences; and

requesting approval to correct the release level set of API specifications prior to correcting the release level set of API specifications based on the release level differences.

5. The method of claim 1, further comprising:

processing the version level set of API specifications, with the machine learning model, to determine version level differences in the version level set of API specifications;

correcting the version level set of API specifications, based on the version level differences, to generate a corrected version level set of API specifications; and

causing the corrected version level set of API specifications to be implemented in the multiple systems.

6. The method of claim 5, further comprising:

replacing the version level set of API specifications, in the data structure, with the corrected version level set of API specifications.

7. The method of claim 5, further comprising:

providing, for display, the version level differences in the version level set of API specifications prior to correcting the version level set of API specifications based on the version level differences; and

requesting approval to correct the version level set of API specifications prior to correcting the version level set of API specifications based on the version level differences.

8. A device, comprising:

one or more memories; and

one or more processors, communicatively coupled to the one or more memories, configured to:

receive application programming interface (API) specifications associated with APIs;

store the API specifications in a data structure associated with the device;

process the API specifications to identify a set of API specifications that includes API specifications utilized by multiple systems;

process the set of API specifications, with a machine learning model, to determine differences in the set of API specifications;

correct the set of API specifications, based on the differences, to generate a corrected set of API specifications;

cause the corrected set of API specifications to be implemented in the multiple systems; and

replace the set of API specifications, in the data structure, with the corrected set of API specifications.

9. The device of claim 8, wherein the one or more processors are further configured to:

provide, for display, the differences in the set of API specifications prior to correcting the set of API specifications based on the differences; and

request approval to correct the set of API specifications prior to correcting the set of API specifications based on the differences.

10. The device of claim 8, wherein the one or more processors are further configured to:

receive a new API to be implemented in the multiple systems;

process the new API and the API specifications, with the machine learning model, to identify issues with the new API;

correct the issues with the new API to generate a corrected new API; and

perform one or more actions based on the corrected new API.

11. The device of claim 10, wherein the one or more processors, when performing the one or more actions, are configured to:

generate a new API specification based on the corrected new API; and

store the new API specification and the corrected new API in the data structure.

12. The device of claim 10, wherein the one or more processors, when performing the one or more actions, are configured to:

cause the corrected new API to be implemented in the multiple systems.

13. The device of claim 10, wherein the one or more processors, when performing the one or more actions, are configured to:

generate a test case to test the corrected new API; and

test the corrected new API based on the test case.

14. The device of claim 8, wherein the one or more processors are further configured to:

receive information indicating a modification made to one of the APIs;

update one of the API specifications, that corresponds to the one of the APIs, based on the modification and to generate a modified API specification; and

replace the one of the API specifications with the modified API specification in the data structure.

15. The method of claim 1, further comprising:

receiving a new API to be implemented in multiple systems;

processing the new API and the API specifications, with a machine learning model, to identify issues with the new API;

correcting the issues with the new API to generate a corrected new API;

generating a new API specification based on the corrected new API;

storing the new API specification and the corrected new API in the data structure;

causing the corrected new API to be implemented in the multiple systems; and

replacing the set of API specifications, in the data structure, with the corrected set of API specifications.