

USDS Engineering Take-Home Assignment Document

Feedback

This was an interesting assignment, as I had not worked seriously with web development for some time. Despite that challenge, I think I was able to give myself a refresher and have this assignment completed.

If I had to give myself feedback, I'd probably say that the time from downloading the data to the metrics appearing on screen is a bit too long.

Including preparation, setup, and research I had to do to complete this assignment, I would estimate it took me about six hours over three days to complete. This time would likely have been shorter had I not been as out of practice as I was and if I hadn't gone down as many rabbit holes looking for solutions.

General Notes

The source code can be deployed locally by running ``npm run dev`` in the `./server` directory. To access the site, visit <http://localhost:5000>

Link to GitHub

<https://github.com/TheClayMaker/eCFR-Website-Project/tree/main>

eCFR Data Metrics

Refresh Data

Agency	Word Count	Checksum	Last Modified	Complexity
Title 1—General Provisions	70895	8a5afdb31bf15d1f86e1db5d845e1fb2	Dec. 29, 2022(fm)	1.94
Title 10—Energy	2959084	a2fef6a3781fce411ccb7f28594b63ce	Unknown	1.88
Title 11—Federal Elections	254135	84a1c6c9d252a85d4e8db6ab4d8863b3	2025-02-20	1.92
Title 12—Banks and Banking	5980903	17d8449ca2fcd0d24b6dc4331528c4b4	Unknown	1.93
Title 13—Business Credit and Assistance	595373	321e6d910da626d7d4f1d134af55255b	July 3, 2025	1.9
Title 14—Aeronautics and Space	2429405	72140240a8e504d9ab6fc8598e6feb74	Unknown	1.85
Title 15—Commerce and Foreign Trade	1850774	ad352c47944b10c694d01501c2ed167e	Unknown	1.81
Title 16—Commercial Practices	1018663	26d29bd965452da2211674d898e48bd7	Unknown	1.86
Title 17—Commodity and Securities Exchanges	2618740	bd4e40eb0a980ff299b195306ac8f17f	Unknown	1.9
Title 18—Conservation of Power and Water Resources	1006219	da8a621def74dc36bc273725014cd10f	Unknown	1.96
Title 19—Customs Duties	1589705	19d22f584334fd69f9aef7854fb3dfa6	Unknown	1.84
Title 2—Federal Financial Assistance	361894	a409692e3c064800e28decffc21537f8	Jan. 3, 2025 (fm)	1.94
Title 20—Employees' Benefits	2261817	993d5b2e2b37831d8336b8850b672250	Unknown	1.92
Title 21—Food and Drugs	3050386	8f7ea8eea8ad5f258edc2e902f7aeaf0	Unknown	1.87
Title 22—Foreign Relations	999650	3d90ce669b33c3983912b1afb60c817	Unknown	1.95
Title 23—Highways	489842	8f5d14d8923e5d6d44df6141ee133303	July 15, 2025	1.92
Title 24—Housing and Urban Development	1891166	adf484804da9afb987a59c761ac9dfefb	Unknown	1.91
Title 25—Indians	885502	fa8b0a92249d1d76dcae101132271585	Unknown	1.91
Title 26—Internal Revenue	13263664	cdcda64c0ae055bfb420f20aadeabdf3	Unknown	1.79
Title 27—Alcohol, Tobacco Products and Firearms	1111462	b1f0b2254412f2c023f05671f3ab40f3	Unknown	1.7
Title 28—Judicial Administration	1528116	23221611c5ec51c5f71706dfcdbe2d78	Unknown	1.97
Title 29—Labor	4282554	ce55daae267ab22d70a50c566f9635c5	Unknown	1.92
Title 3—The President	4453	01374dbe5c3fa286293633076079be6c	March 17, 2015	2.02
Title 30—Mineral Resources	1497077	449aa78c18e8f022591d73acaf05a59e	Unknown	1.84
Title 31—Money and Finance: Treasury	1480392	80ded0905bd7bd9f27310478eec6aa28	Unknown	1.9
Title 32—National Defense	1943933	3872bbf1fb51ef27b410530969a6ab5f	Unknown	1.99
Title 33—Navigation and Navigable Waters	1752144	65e9dfa6b0d80fd0ecda4ae4762de7cf	Unknown	1.68
Title 34—Education	1340834	4f39d1f32f7679a3428a38e6abd6595c	Unknown	1.89
Title 36—Parks, Forests, and Public Property	1167521	b11718fbd916ea39cc252f3a511cba71	Unknown	1.92
Title 37—Patents, Trademarks, and Copyrights	685342	96b05b96c49d0b6815fd24e8f4c780b3	July 10, 2025	1.88