BALLOTPEDIA

The Encyclopedia of American Politics

Jr. Data Engineer and Researcher Test

Prompt

Ballotpedia is working to expand local elections coverage. The following slides contain examples of government websites that list candidates up for election.

We would be looking to extract much of this data into a format that includes:

- Election date
- Political office name
- Location or jurisdiction of the office (county, city, state, etc.)
- Candidate name
- Political party

Looking at the example data sources on the following slides, please write up your initial thoughts on how you might approach such a project – potential technologies (languages, libraries, frameworks, tools), basic data flow, and potential issues to look out for.

Prompt

Note that we are not looking for an exact architecture, but are interested in learning about your own familiarity with data engineering tools and approaches. One page would be a sufficient response.

Keep in mind:

- We would want to create scripts / processes that are reusable for future election years, wherever possible.
- For accuracy, there must be steps for human review / editing.

Please email responses to <u>bp-tech-test@ballotpedia.org</u> and be sure to include your full name.

Example 1: table

2023 June Republican Primary - Local Candidates

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Locality Name	Office Title	Jurisdiction On Ballot	Incumbent	Candidate Name	Candidate Status	CampaignAddressLine1	CampaignAddressLine2	Campaign City	Campaign State	Campaign Zip	Campaign Email
BOTETOURT COUNTY	Member Board of Supervisors	Blue Ridge District	NO	Walter G. Michael	Qualified	1215 Archway Road		Blue Ridge	VA	24064	wmg44@aol.com
BOTETOURT	Member Board of Supervisors	Blue Ridge District	YES	Billy W. Martin Sr.	Qualified	426 Mountain Pass Rd		Blue Ridge	VA	24064	bilbec3@gmail.com
BOTETOURT COUNTY	Member Board of Supervisors	Valley District	NO	Robert R. Young	Qualified	165 Norfolk and Western Ave		Cloverdale	VA	24077	robertyoung581@yahoo.com
BOTETOURT COUNTY	Member Board of Supervisors	Valley District	YES	Donald M. "Mac" Scothorn	Qualified	1025 Highland Dr		Roanoke	VA	24019	macscothorn@yahoo.com
BUCHANAN COUNTY	Clerk of Court	Buchanan County	NO	Alisha Smith Stiltner	Qualified	PO Box 304		Big Rock	VA	246030304	stiltneralisha@yahoo.com
BUCHANAN COUNTY	Clerk of Court	Buchanan County	NO	Christie Coleman Stiltner	Qualified	1710 Red Dirt Rd		Vansant	VA	246568501	christie4clerk@gmail.com
BUCHANAN COUNTY	Commonwealth's Attorney	Buchanan County	NO	M. Nikki Stiltner	Qualified	PO Box 930		Grundy	VA	246140930	nikkistiltner@gmail.com
BUCHANAN COUNTY	Commonwealth's Attorney	Buchanan County	YES	Gerald Douglas Arrington	Qualified	PO Box 1555		Grundy	VA	246141555	g_arrington@outlook.com

https://www.elections.virginia.gov/casting-a-ballot/candidate-list/2023-june-republican-primary---local-candidates/

Example 2: interactive website



https://mvic.sos.state.mi.us/PublicBallot/Index

Congressional REPRESENTATIVE IN CONGRESS NONPARTISAN SECTION 2nd DISTRICT Judicial Vote for not more than 1 Jerry Hilliard Democratic JUSTICE OF SUPREME COURT

Output:

STATE GENERAL

Tuesday, November 8, 2022 Barry County, Michigan MAPLE GROVE TOWNSHIP, Precinct 1

PARTISA	N SECTION		
S	itate		
GOVERNOR AND LI	EUTENANT (not more than 1	GOVERNOR	Denni
Gretchen Whitmer	S	Democratic	Rene
Garlin D. Gilchrist II	\$	Domooratio	Mike
Tudor M. Dixon	\$	Republican	Travi
Shane Hernandez	\$		Clara
Mary Buzuma Brian Ellison	S	Libertarian	Max F
Donna Brandenburg Mellissa Carone	S	U.S. Taxpayers	Robin
Kevin Hogan Destiny Clayton	S S	Green	Danie
Daryl M. Simpson Doug Dern	s s	Natural Law	Marily
SECRETA	RY OF STAT	Έ	Craig
Vote for r	not more than 1		Bruce
Jocelyn Benson	\$	Democratic	Marc
Kristina Elaine Karamo	\$	Republican	Susa
Gregory Scott Stempfle	S	Libertarian	
Christine C. Schwartz	\$	U.S. Taxpayers	is.
Larry James Hutchinson Jr.	\$	Green	
	EY GENERAL		
Dana Nessel	S	Democratic	Mike
Matthew DePerno	\$	Republican	
Joseph W. McHugh Jr.	\$	Libertarian	
Gerald T. Van Sickle	s	U.S. Taxpayers	

State Boa	ards - Continue	d
TRUSTEE OF MICH	HIGAN STATE	UNIVERSITY
Vote fo	or not more than 2	
Dennis Denno	\$	Democrat
Renee Knake Jefferson	\$	Democrat
Mike Balow	\$	Republica
Travis Menge	\$	Republica
Claranna Gelineau	\$	Libertaria
Max Riekse	\$	Libertaria
Robin Lea Laurain	\$	Green
GOVERNOR OF W	AYNE STATE	UNIVERSITY
Vote for	or not more than 2	
Danielle Atkinson	\$	Democrat
Marilyn Kelly	\$	Democrat
Christa Murphy	\$	Republica
Craig Wilsher	\$	Republica
Bruce Jaquays	\$	Libertaria

Susan Odgers	\$	Green
Marc Joseph Sosnowski	\$	U.S. Taxpayers
Bruce Jaquays	\$	Libertarian
Craig Wilsher	\$	Republican
Christa Murphy	\$	Republican
Marry I Kerry	Φ	Democratic

Democratic

Democratic

Republican

Republican Libertarian

Libertarian Green

Democratic

	County
COL	INTY COMMISSIONER
	5th DISTRICT
	2 Year Term
	Vote for not more than 1
Mike Callton	\$ Republican

CC	DUNTY COMMISSIONER	
	7th DISTRICT	
	2 Year Term	
	Vote for not more than 1	
Bruce D. Campbell	\$	Republican

Example 3: sample ballot

OFFICIAL DEMOCRATIC BALLOT						
Cherry Township						
SULLIVAN COUNTY, PENNSYLVANIA MUNICIPAL PRIMARY ELECTION MAY 16, 2023						
INSTRUCTIONS TO VOTERS: To vote, fill in the oval () completely next to the candidate of your choice. To vote for a person not on the ballot, fill in the corresponding oval () and manually write in his/her name in the space provided. Use only pen or pencil. If you spoil your ballot, do not erase but ask for a new ballot.						
WARNING: If you receive an absentee vote at your polling place on election de deadline, you may only vote a provision absentee or mail-in ballot and envelope	ay. If you are unable to return your veral ballot at your polling place on elections	oted absentee or mail-in ballot by the ction day, unless you surrender your				
JUSTICE OF THE SUPREME COURT (Vote for ONE)	COUNTY SHERIFF 4 Year Term (Vote for ONE)	COUNTY CORONER 4 Year Term (Vote for ONE)				
DANIEL MCCAFFERY Philadelphia County	Write-In	0				
DEBBIE KUNSELMAN Beaver County	PROTHONOTARY, REGISTER AND RECORDER, CLERK OF COURTS	Write-In COUNTY AUDITOR				
0	(Vote for ONE)	4 Year Term (Vote for not more than TWO)				
JUDGE OF THE SUPERIOR COURT (Vote for not more than TWO)	KELLIE CARPENTER	0				
PAT DUGAN Philadelphia County	0	Write-In				
TIMIKA LANE Philadelphia County	COUNTY TREASURER 4 Year Term (Vote for ONE)	Write-In				
JILL BECK Allegheny County	0					

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Example 4: list

DEMOCRATIC BALLOT

STATE OFFICES (All Precincts within Westmoreland County)

Justice of the Supreme Court - Ten Year Term - Vote for One

DANIEL MCCAFFERY – Philadelphia County
DEBBIE KUNSELMAN – Beaver County

Judge of the Superior Court - Ten Year Term - Vote for Not More Than Two

PAT DUGAN – Philadelphia County TIMIKA LANE – Philadelphia County

JILL BECK - Allegheny County

Judge of the Commonwealth Court - Ten Year Term - Vote for One

MATT WOLF - Philadelphia County

BRYAN NEFT - Allegheny County

COUNTY OFFICES (All Precincts within Westmoreland County)

County Commissioner - Four Year Term - Vote for Not More Than Two

TED KOPAS – Hempfield Township SYDNEY HOVIS – Scottdale Borough

County Controller - Four Year Term - Vote for One

County Treasurer - Four Year Term - Vote for One

Sheriff – Four Year Term – Vote for One TOMMY JOHN HAMACHER – Unity Township

Recorder of Deeds - Four Year Term - Vote for One

Register of Wills and Clerk of the Orphans' Court - Four Year Term - Vote for One

MAGISTERIAL DISTRICT COURT

Magisterial District Judge 10-1-01 - Six Year Term - Vote for One

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