

Hackathon Problem Statement

Build a National Family Tree 🏠

👷👷 WHAT TO BUILD

Create a Family Tree of all families in India (Pan India) using Electoral Roll Pdf with the data available at nsvp.in.

You can use any technology or any hack to crack the following problem statement.

Below are steps to generate Electoral Roll with any person's data:

1. Head over to [Generate Voter Information](#) and fill in the required information

विवरण द्वारा खोज/Search by Details | पहचान-पत्र क्र. द्वारा खोज/Search by EPIC No. | ऑनलाइन आवेदन करें/Apply Online | मदद/Help

Provide your details

नाम/Name * | पिता / पति का नाम (Father's/Husband's Name) * | उम्र/Age * | लिंग/Gender | जन्म तिथि/DoB * | पुरुष/Male

राज्य/State * | जिला/District | विधानसभा निर्वाचन क्षेत्र/Assembly Constituency

कोड / Code * | Captcha Text | खोज/Search

2. This will generate a list of users with the following name. Select the one from the following.

Action	EPIC No.	Name	Age	Relative's Name	State	District	Polling Station	Assembly Constituency	Parliamentary Constituency
View Details	83				Uttar Pradesh	ihar	IOOL		hr
View Details					Uttar Pradesh	ihar		AM	hr

- Assemble Constituency
- EPIC no. (Voter Card No.)
- Part Number
- Serial No.

Mतदाता सूचना/Voter Information

राज्य/State	Uttar Pradesh
विधान सभा निर्वाचन क्षेत्र/Assembly Constituency - Assembly Constituency Number	II - 68
संसदीय निर्वाचन क्षेत्र/Parliamentary Constituency	XI
नाम/Name	[REDACTED]
लिंग/Gender	M
पहचान पत्र क्रमांक/EPIC No	83
पिता का नाम/ Father's Name	[REDACTED] [REDACTED]
भाग संख्या/Part Number	362
भाग का नाम/Part Name	JM NO.2
मतदाता क्रमांक/Serail No	722
मतदान केंद्र/Polling Station	OOL - 362
मतदान की तारीख/Polling Date	[REDACTED]
Note 1 : This output is computer generated and is provided only for the information to the voter.	
Note 2 : This is not an identity document.	

बदलाव सूचना छिड़ करें Print
Voter Information

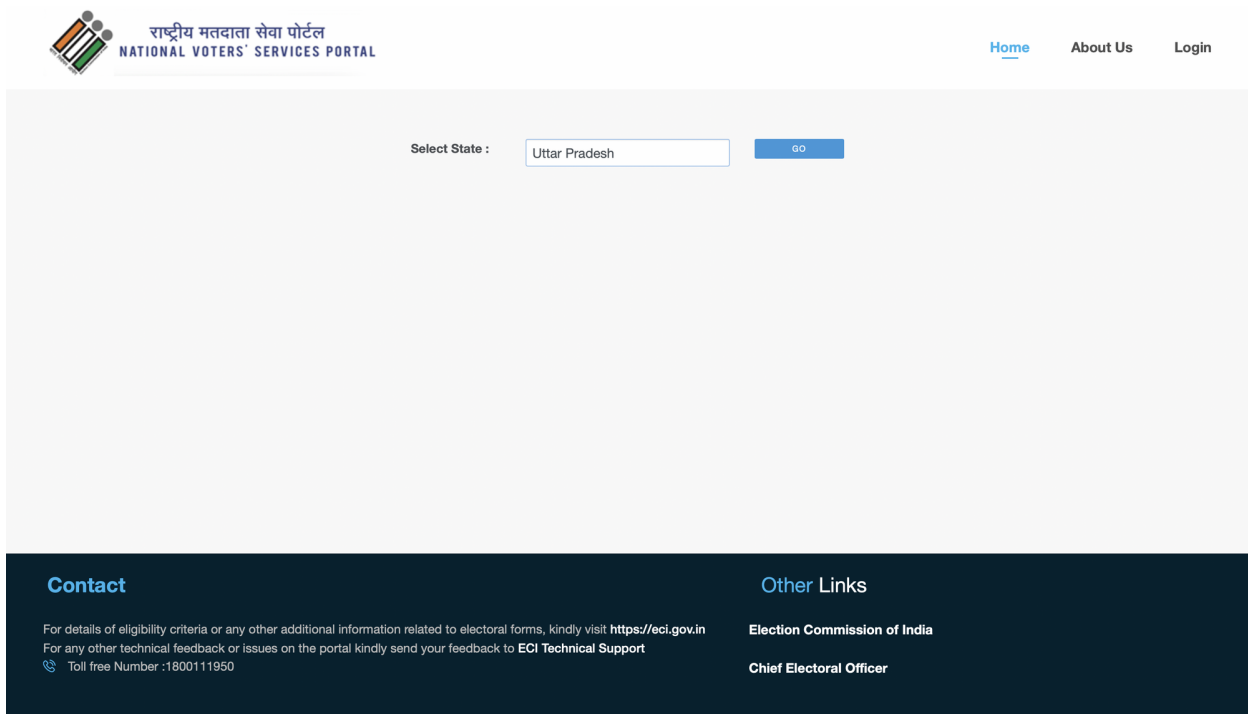
ऑनलाइन मतदाता पंजीकरण /Online Voter Registration

विधान सभा क्षेत्र में बदलाव के लिए आवेदन करें Apply for shifting to a different Assembly Constituency	Form 6
विधान सभा क्षेत्र में बदलाव के लिए आवेदन करें। केवल प्रारसी विचारको के लिए Apply for shifting to a different Assembly Constituency (Only for overseas elector)	Form 6A
इस प्रविष्टि पर आशेष करने या प्रविष्टि को हटने के लिए आवेदन करें Raise an objection for inclusion of this entry or Apply for deletion from electoral roll	Form 7
इस प्रविष्टि में संशोधन के लिए आवेदन करें Apply for corrections in electoral roll entry	Form 8
एक ही विधान सभा क्षेत्र के अंदरूनि मतदान केंद्र में बदलाव के लिए आवेदन करें Apply for shifting within Assembly Constituency	Form 8A

Details of Election Officials

No Details Available

4. Next, head over to [Generating Electoral PDF](#), and select the state taking data from Person's data, as shown above.



राष्ट्रीय मतदाता सेवा पोर्टल
NATIONAL VOTERS' SERVICES PORTAL

Home About Us Login

Select State :


Contact

For details of eligibility criteria or any other additional information related to electoral forms, kindly visit <https://eci.gov.in>
For any other technical feedback or issues on the portal kindly send your feedback to [ECI Technical Support](#)
Toll free Number :1800111950

Other Links

[Election Commission of India](#)
[Chief Electoral Officer](#)

5. Every state website will have a section with Electoral Roll, click on that



Chief Electoral Officer, Uttar Pradesh
Welcome to The Website of Chief Electoral Officer

TOLL FREE 1800-180-1950

Home About Us Electoral Process Election Results Election Expenditure Affidavits Political Parties RTI Media Login

पंजीकृत अमान्यताप्राप्त राजनैतिक दलों के बारे में भारत निर्वाचन आयोग के आदेश दिनांक 25 मई 2022 के अनुपालन के संबंध में | UP Assembly Constituency Election Poll Percentage 7th Phase - 54.18% @ 05:00 PM | List of Counting Centres

Electoral Roll PDF

List of Autonomous Institutions & Correction Done B/w Draft Roll 2022 and Final Roll Published in 05-01-2022

Legislative Council Electoral Roll

Claims & Objections (Form 9, 10, 11, 11a)

Search Your Name Electoral Roll

Know Your Application Status

e-EPIC

EVM/VVPAT/EMS RELATED

Know Your Booth & Booth Level Officer

Voter Registration Forms

Registration For NRIs

Other Services

Forthcoming Legislative General Assembly Election-2022

Media Corner

BOOTH LEVEL OFFICER E-Patrika

Schedule for de-novo preparation of electoral rolls with ref to 1.11.2022 as qualifying date in respect of certain Graduates and Teachers' Constituencies of state Legislative Council

Election to the Office of President of India, 2022 (16th Presidential Election).


Biennial Elections to the Legislative Councils of Uttar Pradesh 2022


Lok Sabha Bye Election 2022

Information of Regd. Unrecognized Parties

Assembly Constituency General Election 2022

6. Enter the District and AC (Assembly Constituency) from the previous data




Strong Democracy Everyone's Participation

*Chief Electoral Officer,
Uttar Pradesh.*

:: Elector Roll PDF ::

Select District

Select AC

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राज्य/State	Uttar Pradesh
विधान सभा निर्वाचन क्षेत्र/Assembly Constituency - Assembly Constituency Number	68
संसदीय निर्वाचन क्षेत्र/Parliamentary Constituency	ahr
नाम/Name	संजय कुमार सिंघल

7. It will give you a list of Electoral PDFs for all the polling stations:

Close

:: Elector Roll PDF ::

Total 415 record(s) found

Select District3 Select AC3 Show

AC Number	Part Number	Polling Station Name	ElectorRollPdf
68	1	पतरामपुर उच्च प्राथमिक विद्यालय(1-8) क0न01	View
68	2	पतरामपुर उच्च प्राथमिक विद्यालय(1-8) क0न02	View
68	3	उगैया प्राथमिक विद्यालय	View
68	4	सूरतगड ऊर्फ लौधई प्राथमिक विद्यालय क0न01	View
68	5	सूरतगड ऊर्फ लौधई प्राथमिक विद्यालय क0न02	View
68	6	सूरतगड ऊर्फ लौधई प्राथमिक विद्यालय क0न03	View
68	7	ताल बिबियाना सौदान सिंह जनता आदर्श इण्टर कालिज क0न01	View
68	8	ताल बिबियाना सौदान सिंह जनता आदर्श इण्टर कालिज क0न02	View
68	9	ताल बिबियाना सौदान सिंह जनता आदर्श इण्टर कालिज क0न03	View
68	10	बोडा प्राथमिक विद्यालय	View
68	11	भैलई उच्च प्राथमिक विद्यालय(1-8) क0न01	View
68	12	भैलई उच्च प्राथमिक विद्यालय(1-8) क0न02	View
68	13	हृचन्दपुर प्राथमिक विद्यालय	View
68	14	सौहरखा उच्च प्राथमिक विद्यालय(1-8)	View
68	15	भुतादनगर प्राथमिक विद्यालय	View
68	16	डबका उच्च प्राथमिक विद्यालय(1-8)	View
68	17	राजनेर ऊर्फ सोरला उच्च प्राथमिक विद्यालय(1-8) क0न01	View
68	18	राजनेर ऊर्फ सोरला उच्च प्राथमिक विद्यालय(1-8) क0न02	View
68	19	स्थौपुरी प्राथमिक विद्यालय	View
68	20	बामसरा राजकीय उच्चतर माध्यमिक विद्यालय क0न01	View

12345678910...

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8. From the AC and Part Number found from the previous record, we find our polling station

AC Number	Part Number	Polling Station Name	ElectorRollPdf
68	361	...	View
68	362	...	View
68	363	...	View

9. From the Serial Number we had with us, we can find the person from the list and we can find families living in the same house, and following we can dig deep in the family tree.

Here is a small walkthrough video for reference:

<https://drive.google.com/file/d/1ocNhLxbTbEwGdFkpjoRrr4BStS21fwlN/view>

! ? WHAT ARE THE CONSTRAINTS?

Absolutely nothing. You are free to use any open-source libraries or build solutions from scratch.

WHAT DO YOU HAVE TO MAKE?

Create an API, which takes **some or all parameters**:

- Name
- Age
- Address
 - City
 - State
 - Local Area
- Voter ID
- Gender

We don't want to restrict you to these parameters. Feel free to dive in more.

and returns:

- Family Tree of the Individual with labelled relations. (Whatever format suits your execution)

Sample Response:

Input

```
{ "name": "shyam Murugan", "age": 21 }
```

Output

```
{ "persons": [ { "name": "abcd efgh", "relation": "self" }, { "name": "xyz ", "relation": "parent"}, { "name": "blee ", "relation": "parent"} ] }
```

WHAT WE NEED?

- **Host the API with the Postman** with sample responses with different parameters.
- Generate a PDF/Json/Zip etc (Any format) of family tree of all families in India. *(Brownie Points)*

Make sure the extracted result has been translated to English from whatever regional language they might be in.

JUDGES

BharatX Team will be going through all the submissions.

JUDGING CRITERIA

- **Accuracy:**
 - How many number of families is your solution able to collect?
 - How accurate your solution produces a family tree?
- **Creativity:** (Out of the Box Thinking)

WHERE TO SUBMIT

Submit through the following Google Link: <https://forms.gle/kVGgRzdDMnFp9uQx6>

Note: *To be submitted by only one person from the team.*

Host your solution on a cloud platform like AWS, Google Cloud, Microsoft Azure or any other platform of your choice and submit the cloud deployment via creating a Postman Collection. Make sure that the collection is accessible publicly. (Create a public Workspace).

Postman -

<https://www.postman.com/downloads/>

<https://learning.postman.com/docs/getting-started/creating-the-first-collection/>