Hackathon Problem Statement
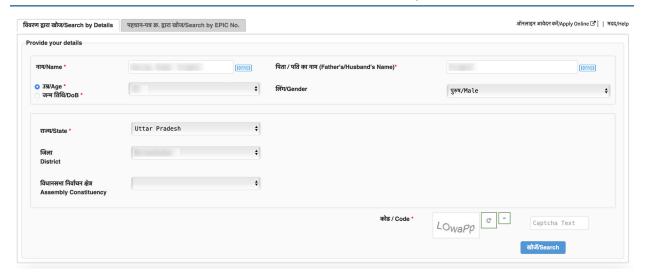
Build a National Family Tree 🏡

👷 👷‍♀️ 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.

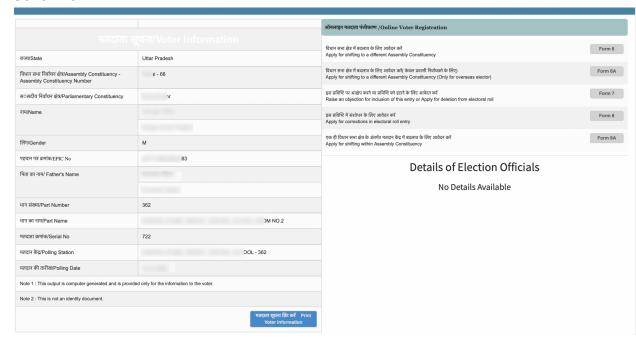Below are steps to generate Electoral Roll with any person's data:
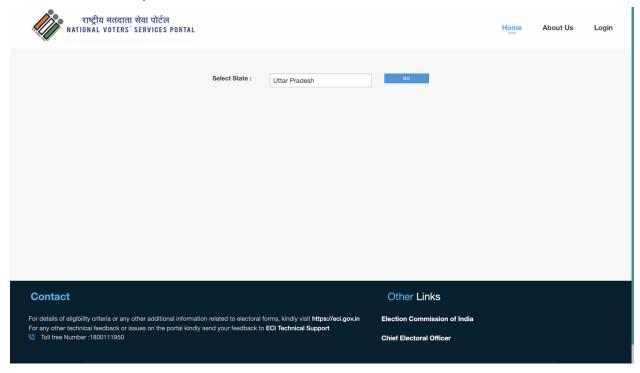1. Head over to Generate Voter Information and fill in the required information

2. This will generate a list of users with the following name. Select the one from the following.
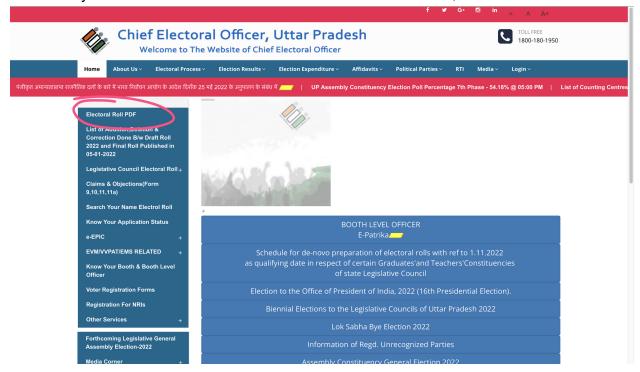
3. Click on view details, and this will take to a new page with details like:
   a. Assemble Constituency
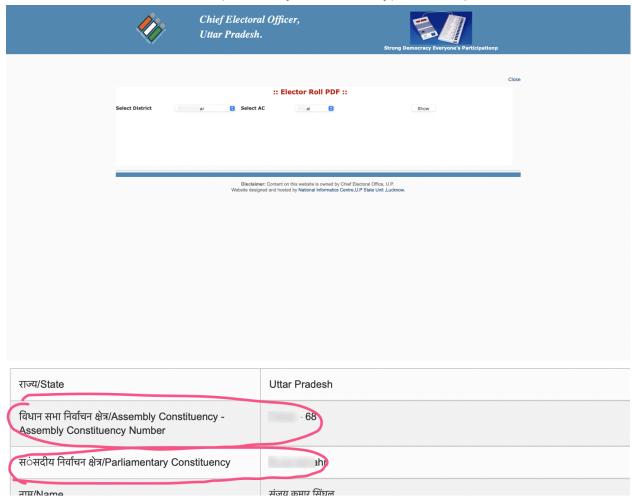   b. EPIC no. (Voter Card No.)
   c. Part Number
   d. Serial No.

मतदाता सूचना/Voter Information		ऑनलाइन मतदाता पंजीकरण /Online Voter Registration	
राज्य/State	Uttar Pradesh	विधान सभा क्षेत्र में बदलाव के लिए आवेदन करें Apply for shifting to a different Assembly Constituency	Form 6
विधान सभा निर्वाचन क्षेत्र/Assembly Constituency - Assembly Constituency Number	ai - 68	विधान सभा क्षेत्र में बदलाव के लिए आवेदन करें(केवल प्रवासी निर्वाचको के लिए) Apply for shifting to a different Assembly Constituency (Only for overseas elector)	Form 6A
संसदीय निर्वाचन क्षेत्र/Parliamentary Constituency	r	इस प्रविष्टि पर आक्षेप करने या प्रविष्टि को हटाने के लिए आवेदन करें Raise an objection for inclusion of this entry or Apply for deletion from electoral roll	Form 7
नाम/Name		इस प्रविष्टि में संशोधन के लिए आवेदन करें Apply for corrections in electoral roll entry	Form 8
		एक ही विधान सभा क्षेत्र के अंतर्गत मतदान केंद्र में बदलाव के लिए आवेदन करें Apply for shifting within Assembly Constituency	Form 8A
लिंग/Gender	M		
पहचान पत्र क्रमांक/EPIC No	83	**Details of Election Officials**	
पिता का नाम/ Father's Name		No Details Available	
भाग संख्या/Part Number	362		
भाग का नाम/Part Name	OM NO.2		
मतदाता क्रमांक/Serial No	722		
मतदान केंद्र/Polling Station	OOL - 362		
मतदान की तारीख/Polling Date			
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.			
	मतदाता सूचना प्रिंट करें Print Voter Information		

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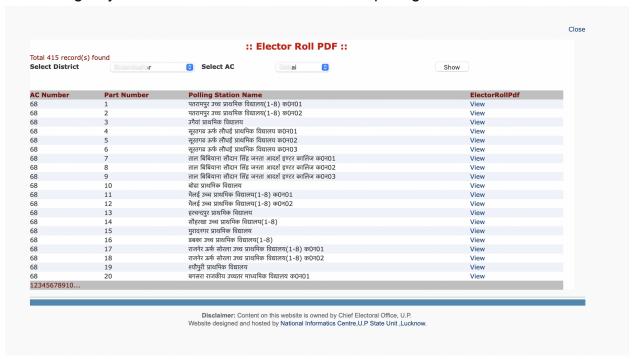

5. Every state website will have a section with Electoral Roll, click on that

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

Close

:: Elector Roll PDF ::

Select District   ar   Select AC   ai   Show

Disclaimer: Content on this website is owned by Chief Electoral Office, U.P.
Website designed and hosted by National Informatics Centre,U.P State Unit ,Lucknow.

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:

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

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/1ocNhLxbTbEwGdFkpjoRrr4BStS21fwIN/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/