

## e-Absentee Portal

Rapid app development with automated PDF Population & Generation capabilities to bring efficiency and transparency for Vote Absentee Virginia's electoral operations.



Virginia,  
USA

Government

### Context

Vote Absentee Virginia is a not-for-profit organization based out of Falls Church, Virginia.

With the increasing demand for accessible and secure voting methods, 'eAbsentee' was created to allow voters to apply for an absentee ballot with ease.

This leads to the needs for a fully-digital platform to effectively implement and manage the absentee ballot application process.

### Solution

Partnering with Vote Absentee Virginia, Mokxa built and deployed the 'eAbsentee portal' on Joget in a week. The solution offers:

- Hassle-free process for requesting absentee ballots, without logging into portal.
- Automated PDF population of voters' data on specific spots and fields on PDF forms, including letters, numbers, checkboxes, etc.
- Instant PDF generation on the original template provided by Vote Absentee Virginia.
- Built-in validation on request form ensured voters' info (Identity Number, birth year, ZIP codes, phone number) are submitted in the right format.
- Automated delivery of submission copy, following each request submission, to both the applicant and relevant county/city officers via emails.
- 100% mobile-ready.

### Outcome

- Enabled a user friendly E-Form for submissions, with seamless automated PDF population and creation on the backend.
- Voters' information like their identities, signatures, etc. are precisely represented on PDF, aligning with the electoral board's template
- Efficiency gains in the electoral system. Automated PDF generation and distribution saves time and reduces administrative costs.
- Email notification and PDF records on a single ecosystem promote transparency and accountability. This is valuable in resolving disputes and identity verification of voters.
- Increased accessibility and convenience. A simplified process to request for absentee ballot boosts voter turnout.
- Dashboards with real-time metrics to track statuses, measure campaigns performance, and available localities, empower election officials for data-driven decision making.
- Next up, Vote Absentee Virginia planned to scale up Joget for similar use case implementations at other Public Offices in the U.S.

# Automated PDF population of voters' data on specific spots and fields on the Virginia Absentee Ballot Application Form, while preserving the original PDF template

The image displays a screenshot of the Virginia Absentee Ballot Application Form, with a separate 'Your Information' form on the left. Red lines connect fields in the 'Your Information' form to corresponding fields in the ballot application form, illustrating the automated data population process. The ballot application form is divided into sections: Personal Information, Permanent Absentee Option, Absentee Ballot for One Election, Where You Live, Ballot Mailing Address, Contact Info, and Section 7 (Change of Name/Address, Military or Overseas Voters, Assistance with Ballot, and Assistance with this Form). Annotations highlight specific data points: 'Letters' population on specific fields based on the information submitted by voters; 'Numbers' populated on specific 'spots' on the PDF form; and an 'Automated Check Box' based on a condition entered on the front-end web form.

**Your Information**

First Name: Mason  
Middle Name: Middle Name  
Last Name: Smith  
Suffix: Smith  
SSN (Last 4 Digits) Why? \*: 3422  
Birth Year Why? \*: 1988

Street Address: 123 Park Forest Way  
Apartment: Apartment  
City: Arlington  
ZIP: 22112  
Locality: Locality

**Virginia Absentee Ballot Application Form**

**Print your Personal Information**

1 Last Name: Smith First Name: Mason  
Middle Name: Middle Name Suffix: Suffix  
Birth Year (optional): 1 9 8 8 Social Security # (last 4 digits required): 3 4 2 2

**Permanent Absentee Option**

2 Do you want to vote by mail for *all future elections*?  Yes (do not complete #3)  No (skip to #3)  
If yes, which party primary ballots would you like to receive? *If none selected, we won't send primary ballots.*  
 Democratic Party  Republican Party  I do not wish to receive ballots for Primary Elections

**Absentee Ballot for One Election**

3 I want to vote an absentee ballot in the:  General Election  Primary  Republican Primary  
Date of Election: 11 / 07 / 2022

**Where You Live**

4 Address: 123 Park Forest Way Apt/Suite #: Apt/Suite #  
City: Arlington VA Zip Code: Zip Code 1 2  
*If rural address or homeless, describe residence.*

**Ballot Mailing Address**

5 If you chose the Permanent Absentee Option in Section 2 above, do not fill out this section.  
Address: Address: Apt/Suite #: Apt/Suite #  
City: City: State: State: Zip Code: Zip Code: Country: Country:

**Contact Info (Optional)**

6 Telephone: 4 2 1 - 1 3 2 - 4 1 5 5  
Email/Fax: psbhatta@mokxa.com

**Section 7 only applies to some voters. Leave blank and skip to Section 8 if none of these apply to you.**

**Change of Name/Address**

7a Former Full Name: Mason Smith  
Former Address: 834 Mastery Blvd Date Moved: 01 / 2023  
City: Glen Allen State: VA Zip code: 2 1 5 5 5

**Military or Overseas Voters**

7b If you are a military/overseas voter OR a spouse/dependent, we need to know more:  
1. Turn the form over to find your category under the Military and Overseas Section.  
2. Print category letter code here: . If applicable, last date of residency: .  
3. Deliver my ballot to:  Residence address from Section 4  Email address from Section 6  
 Ballot mailing address from Section 5  Fax number from Section 6

**Assistance with Ballot**

7c  I need assistance completing my ballot due to a disability, blindness, or an inability to read or write.  I am a print-disabled voter and would like to receive my ballot electronically at the email address provided above in Section 6. *You will receive your ballot electronically and your general registrar will send you the proper envelopes to return your ballot.*  
*If checked, an assistance form will be sent with the ballot.*

**Assistance with this Form**

7d Assistant, fill in your information below and sign if applicant is unable to sign due to disability:  
Assistant's Full Name: Aston Kutcher Phone: 3 1 2 - 0 0 2 - 2 4 4 4  
Assistant's Address: 113 Morris st Apt/Suite: Apt/Suite #  
City: Richmond State: Virginia Zip code: 2 0 5 5  
*I swear/affirm, subject to felony penalties for making false statements pursuant to VA Code § 24.2-1016, that (1) the information provided in this form is true, and (2) I have written "Applicant unable to sign" on the applicant's signature line in Section 8.*  
Assistant, sign here: /s/ Aston Kutcher Date: 10 / 03 / 2023