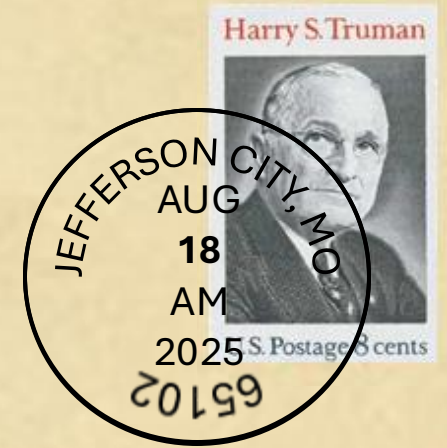
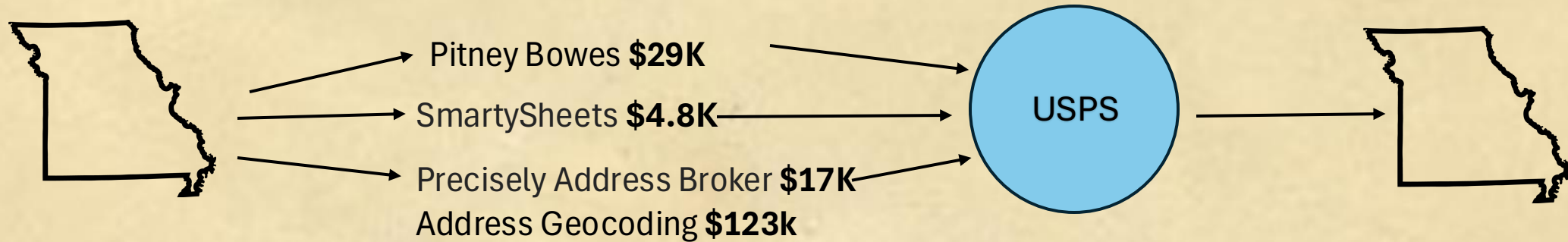


Edward Durrill
Howard Sheppard
Will Lewis

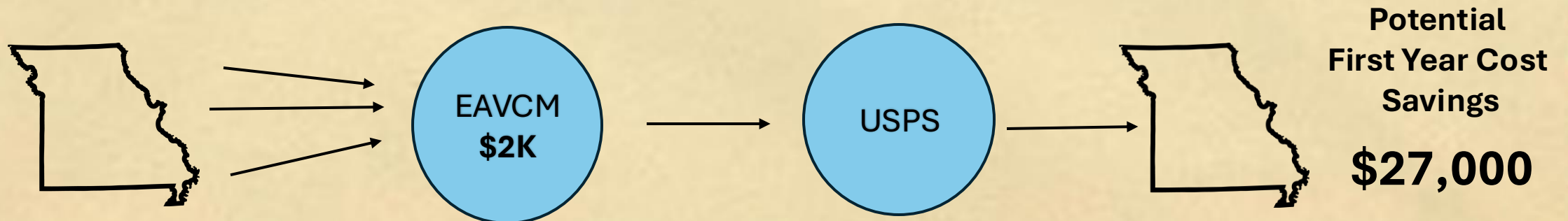
Enterprise Address Validation
and Certified Mail
c/o OA, ITSD, DOLIR
Missouri Show Me Challenge 2025



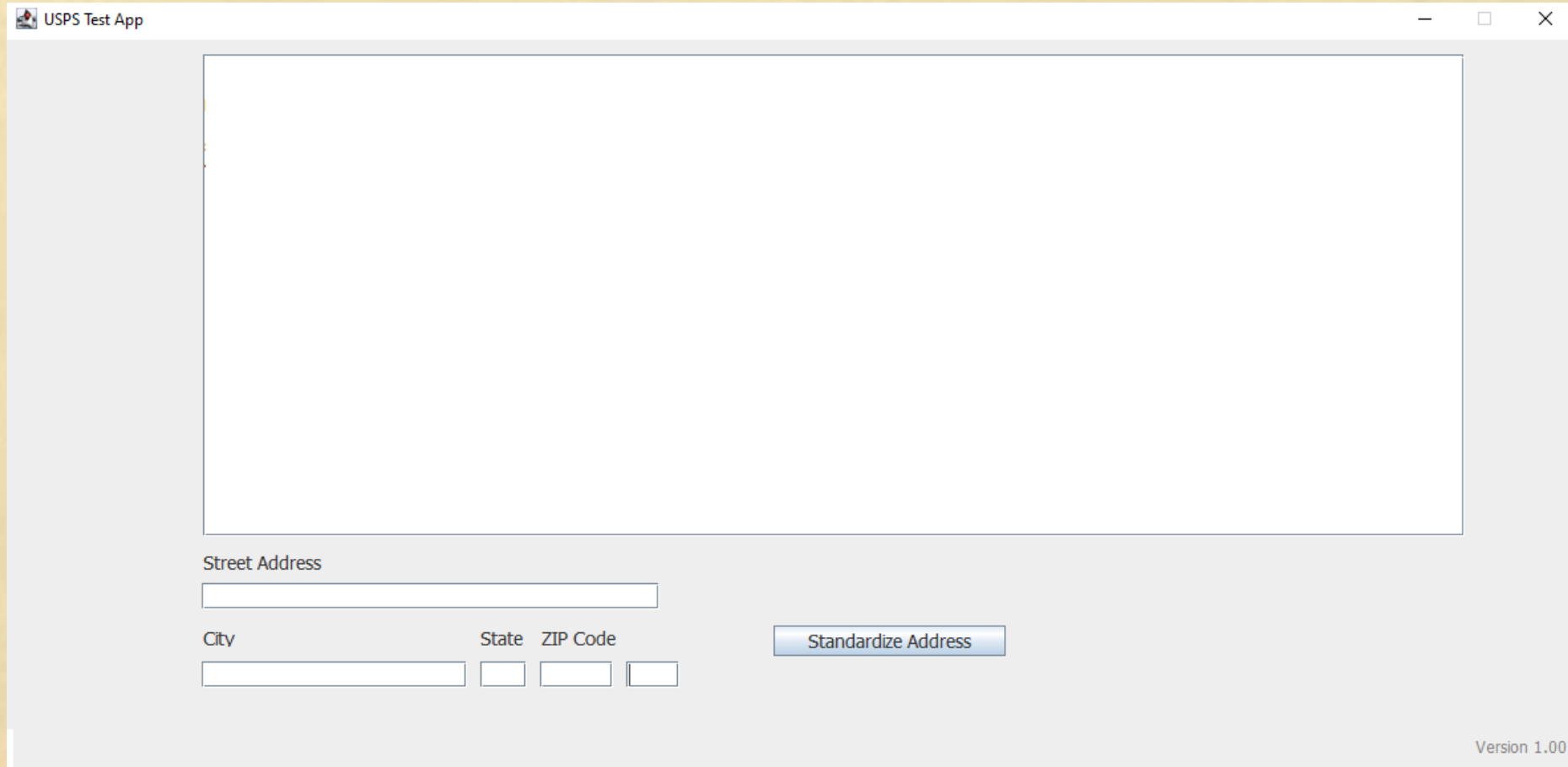
Current Address Validation Systems at the State



In house built EAVCM System



Demo, Test App, Validating An Address



The screenshot shows a web application window titled "USPS Test App". The interface is light gray and contains a large white rectangular area for address display. Below this area are input fields for "Street Address", "City", "State", and "ZIP Code". A "Standardize Address" button is positioned to the right of the input fields. The version number "Version 1.00" is displayed in the bottom right corner.

USPS Test App

Street Address

City State ZIP Code

Standardize Address

Version 1.00

Demo, Test App, Validating An Address

USPS Test App

Street Address

421 dunklin

City State ZIP Code

jefferson city MO

Standardize Address

Version 1.00

Demo, Test App, Validating An Address

USPS Test App

Street Address

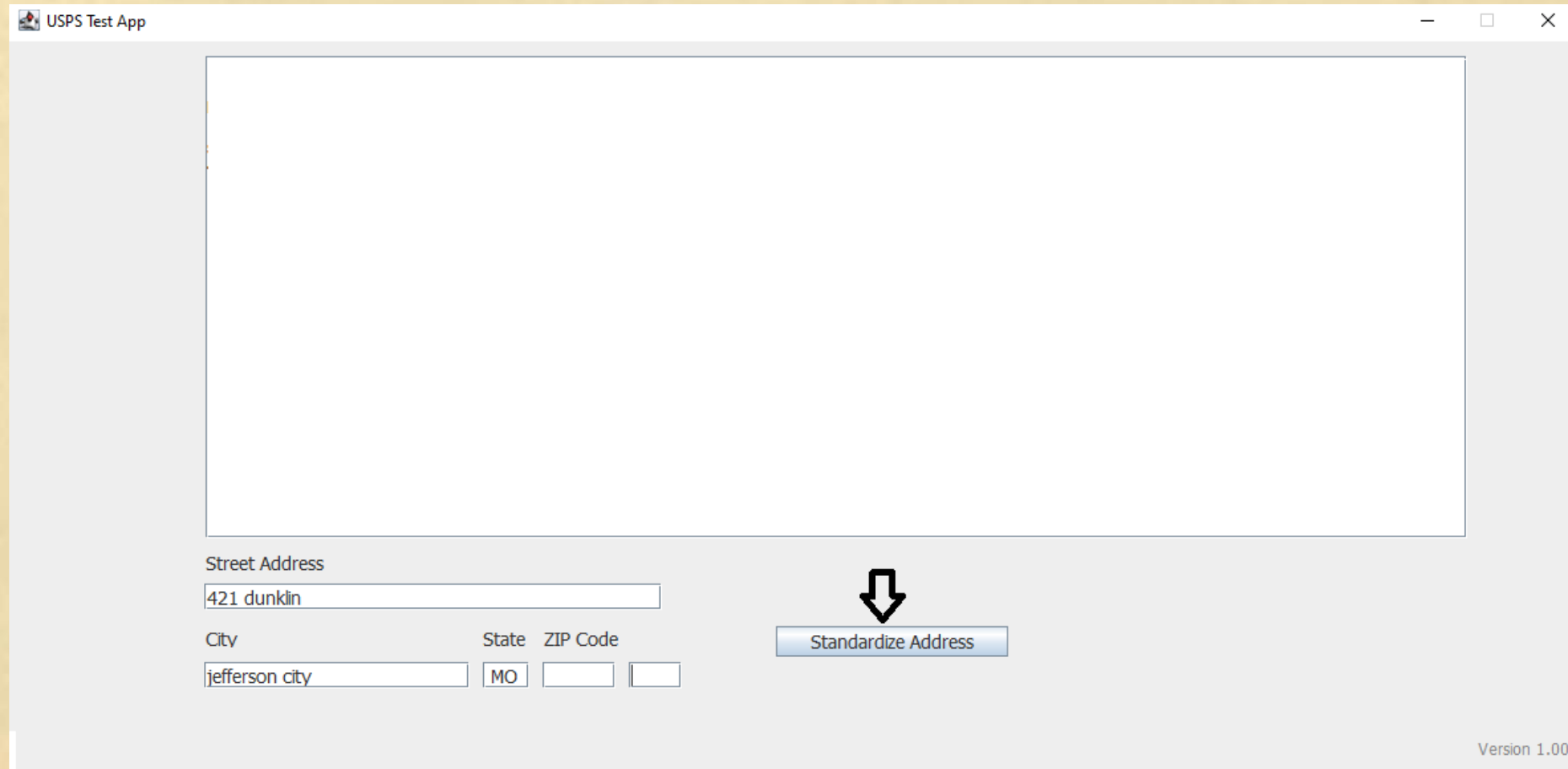
421 dunklin

City State ZIP Code

jefferson city MO

Standardize Address

Version 1.00



Demo, Test App, Validating An Address

USPS Test App

Street Address

421 dunklin

City State ZIP Code

jefferson city MO

Street Address

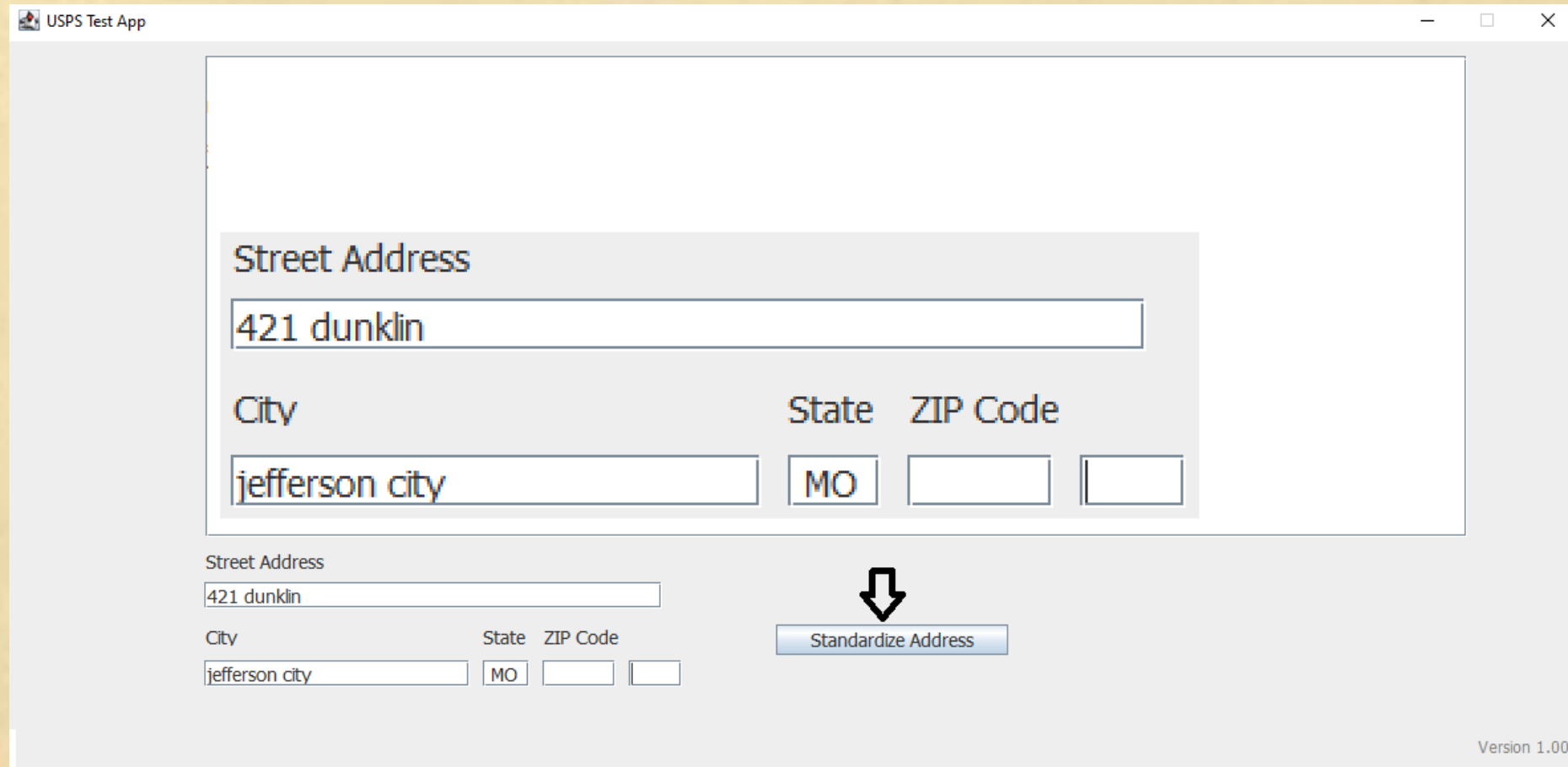
421 dunklin

City State ZIP Code

jefferson city MO

Standardize Address

Version 1.00



Demo, Test App, Validating An Address

USPS Test App

Street Address

421 E DUNKLIN ST

City State ZIP Code

JEFFERSON CITY MO 65101 3138

Street Address

421 E DUNKLIN ST

City State ZIP Code

JEFFERSON CITY MO 65101 3138

Standardize Address

Generate Certified Mail Bar Code

Version 1.00

Demo, Test App, Validating An Address

USPS Test App

Street Address

421 E DUNKLIN ST

City State ZIP Code

JEFFERSON CITY MO 65101 3138

Street Address

421 E DUNKLIN ST

City State ZIP Code

JEFFERSON CITY MO 65101 3138

Standardize Address

Generate Certified Mail Bar Code

Version 1.00

Demo, Test App, Validating An Address

USPS Test App

Street Address

421 E DUNKLIN ST

City State ZIP Code

JEFFERSON CITY MO 65101 3138

Street Address

421 E DUNKLIN ST

City State ZIP Code

JEFFERSON CITY MO 65101 3138

Standardize Address

Generate Certified Mail Bar Code

Version 1.00

Demo, Test App, Validating An Address

USPS Test App

Street Address

421 E DUNKLIN ST

City State ZIP Code

JEFFERSON CITY MO 65101 3138

Street Address

421 E DUNKLIN ST

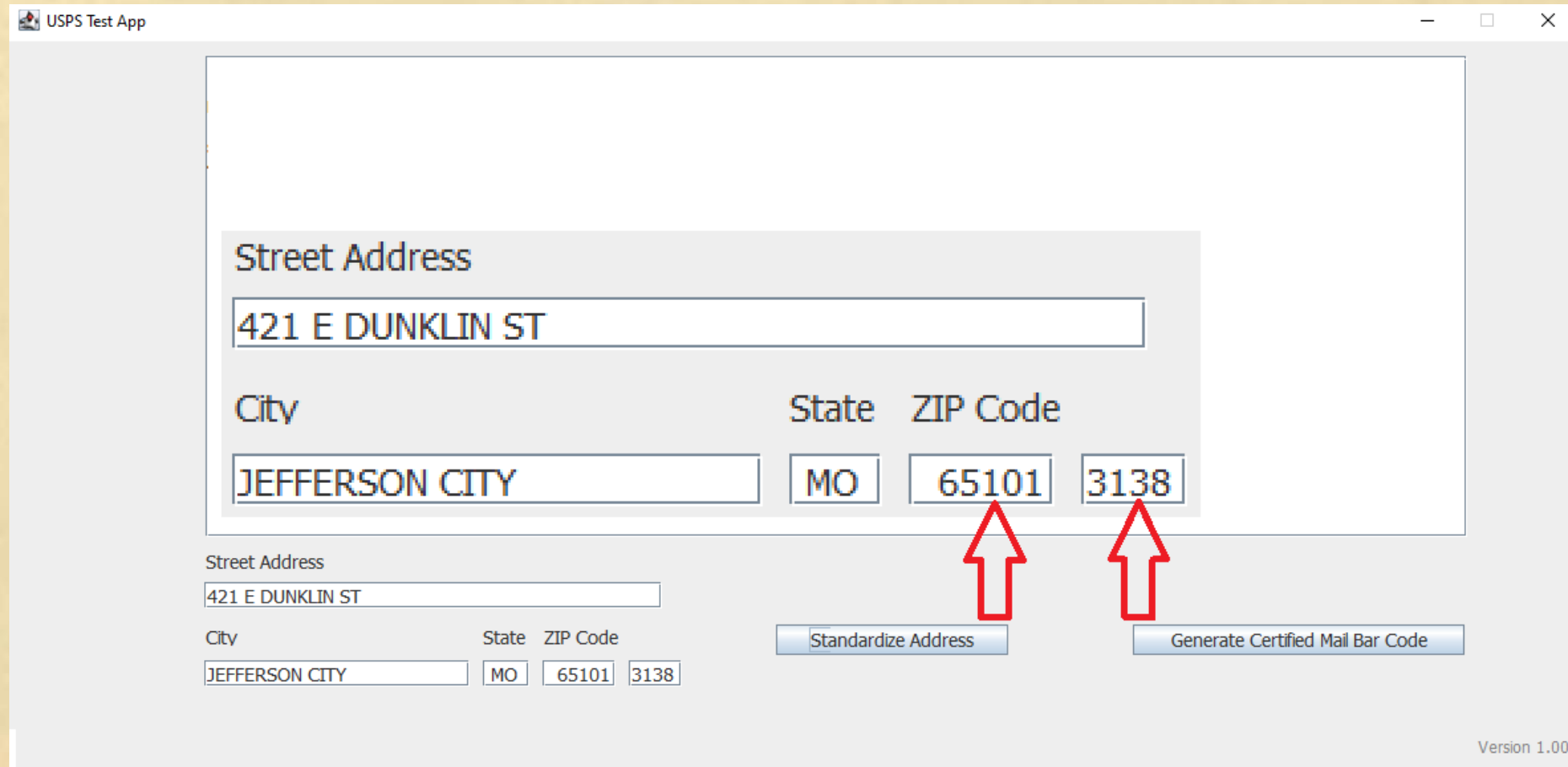
City State ZIP Code

JEFFERSON CITY MO 65101 3138

Standardize Address

Generate Certified Mail Bar Code

Version 1.00



The image shows a screenshot of a web application titled "USPS Test App". The application has a light gray background. At the top, there is a header bar with the title "USPS Test App" and standard window controls (minimize, maximize, close). Below the header, there is a large white rectangular area. Inside this area, there is a form with the following fields: "Street Address" (containing "421 E DUNKLIN ST"), "City" (containing "JEFFERSON CITY"), "State" (containing "MO"), and "ZIP Code" (containing "65101" and "3138"). Below this form, there is another identical form. At the bottom of the application, there are two buttons: "Standardize Address" and "Generate Certified Mail Bar Code". Two red arrows point to the "65101" and "3138" fields in the ZIP Code section of the top form. The version number "Version 1.00" is displayed in the bottom right corner.

Demo, Test App, Validating An Address

USPS Test App

Street Address

421 E DUNKLIN ST

City State ZIP Code

JEFFERSON CITY MO 65101 3138

Standardize Address

Generate Certified Mail Bar Code

Version 1.00

Demo, Test App, Generating a Certified MAIL Bar Code

USPS Test App

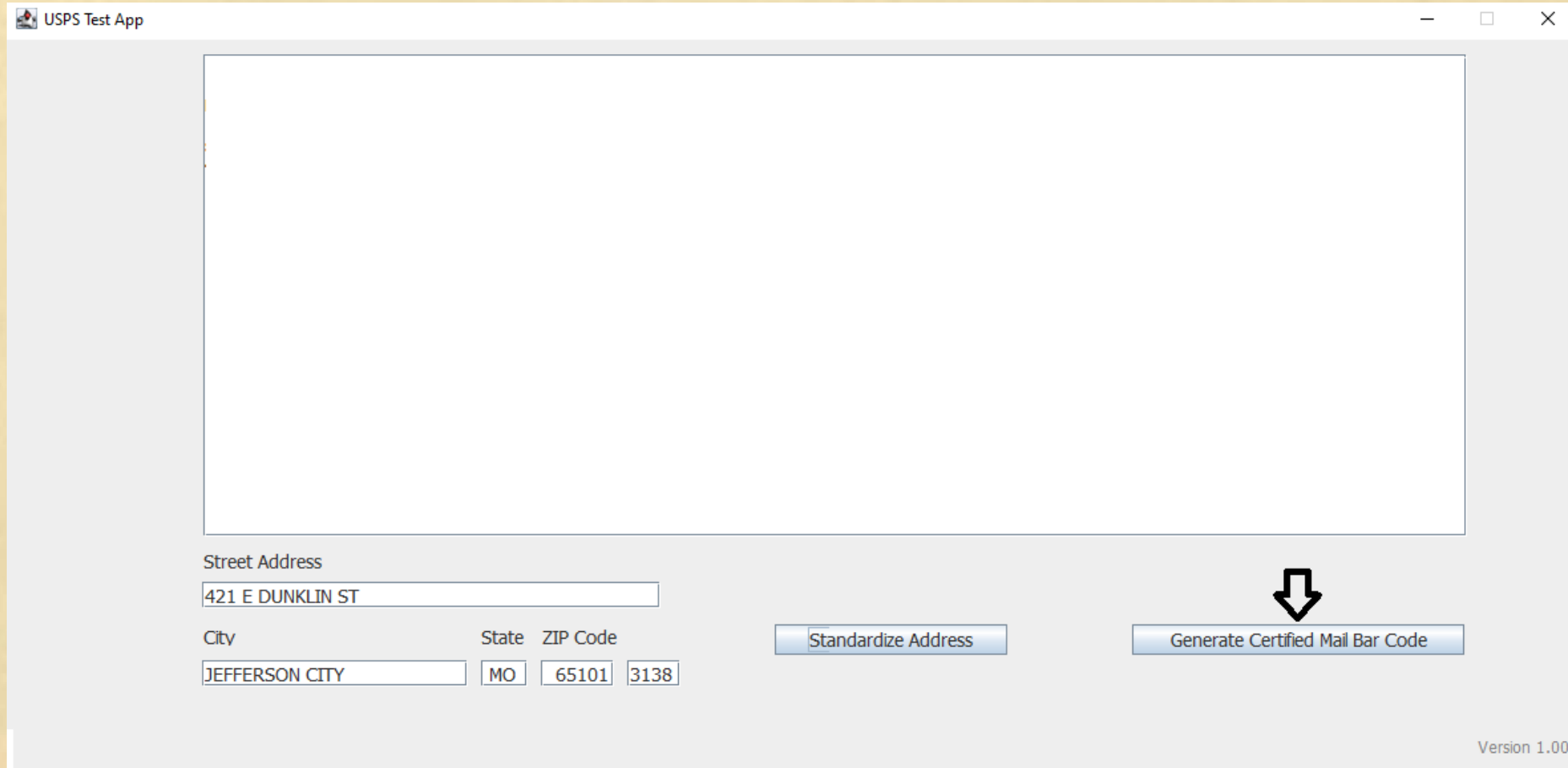
Street Address
421 E DUNKLIN ST

City State ZIP Code
JEFFERSON CITY MO 65101 3138

Standardize Address

Generate Certified Mail Bar Code

Version 1.00



Demo, Test App, Generating a Certified MAIL Bar Code

USPS Test App

RETURN TO NAME
421 E DUNKLIN STREET
JEFFERSON CITY, MO 65101-3138

USPS CERTIFIED MAIL™



9207 1987 6543 2112 3456 76

YOUR NAME HERE
421 E DUNKLIN ST
JEFFERSON CITY, MO 65101-3138

Street Address
421 E DUNKLIN ST

City State ZIP Code
JEFFERSON CITY MO 65101 3138

Standardize Address

Generate Certified Mail Bar Code

Version 1.00

```
public record SearchCriteria  
    (string addr, string city, String state) {}  
HttpClient httpClient = HttpClient.createDefault();
```

State
Data
Center

State Cloud

Thank You for your time

Questions?





Inspired in part by the hit TV show "Shark Tank" and other similar competitions, the **Show Me Challenge** is a new way for employees of Missouri's 17 executive departments to compete to identify solutions that improve how we serve out citizens, cut out unnecessary bureaucratic work, and/or save time and money.

To compete in the Show Me Challenge, please do the following:

1. Complete all fields of the below template. *(help guide is available at showmechallenge.mo.gov/resources)*
2. Submit your pitch via www.showmechallenge.mo.gov/pitch-form.html

Pitch submission deadline: June 10, 2025

Note: must be state employee at time of winning to be eligible for prize money.

TEAM INFORMATION

OpEx Coach name:

Email:

Team Member Name and Email

Department (select)

Division (type)

ex: Mo Mule, Mo.Mule@oa.mo.gov

Administration

Commissioner's Office

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.



PITCH

Pitch name

What is the problem you are addressing? *(no more than 200 words)*



What is the root cause of the problem? *(No more than 200 words)*



What is the potential solution? *(No more than 100 words)*



Which area of impact is your primary focus? *(choose one - if other, please specify)*



What is your primary measure for impact?
(measures should follow SMART principles: Specific - Measurable - Actionable - Relevant - Time Bound)

Primary Measure

Current Status

Target

What is the suggested benefit? *(less than 100 words)*



PROJECT PLAN

What are the major activities and milestones to deliver your solution?*(If additional room is needed, please attach a separate document).*



Milestone/Deliverable



Activity



Due Date





REQUIRED RESOURCES AND SUPPORT

What is the expected project duration? *(choose one)*

Does your project require any specialized skills to complete? If so, list.

Does your project require a statutory change to complete? If so, explain. *(less than 100 words)*

Can you implement your project with your current resources? If not, explain. *(less than 100 words)*
strongly recommended: provide a cost breakdown in your additional materials.

Are there other factors critical to design and implement your project? *(no more than 50 words)*



ADDITIONAL MATERIALS

Please list any additional materials you have provided.



Enterprise Address Validation and Certified Mail

Executive Summary

We are going to create an application/service for State of Missouri agencies to use for validating addresses in the United States. We will also generate Certified Mail numbers with a Bar Code to use for tracking the Certified Mail via the USPS. The goal for this project is to save the State of Missouri time in person-hours (ITSD and Business), cost in vendor spending, time/effort in procurement, and consolidate a common service that several agencies use into a Statewide service that can be accessed by all agencies. The Statewide service will reduce cost for several agencies and standardize procurement of address validation and certified numbers / bar code for the state. Vendors use the USPS to validate the addresses, and the service is free, and ITSD can create a way to access them.

Examples of the various costs:

Vendor	Renewal cost	Highest number address validations in an hour
Pitney Bowes	\$29,110	100k
SmartySheets	\$4,844	Unknown
Precisely Address Broker	\$17,406 and \$123,299	2 million
ITSD proposed	\$4,000	100k starting, upgrade capabilities as new agencies come on board

Our opening stage should be the DOLIR DES agency. This is where we originally saw the issue of validation being down for over three weeks. Fortunately, they had a batch process that caught them up, so no impact was seen aside from the fiscal costs associated with the vendor. They also use Certified Mailing, and it just makes a good fit for a starting point. The next renewal timeframe gives us time to test with DES and USPS to create an application that will scale as needed. This will then provide a blueprint to onboard the next agency that wants to use the Enterprise Address Validation and Certified Mail application. This project utilizes the directive of ITSD to use Enterprise applications to address complex needs of large organizations, streamlining operations, improving efficiency, and enhance collaboration across various departments/agencies.

Once done we should only have to update for routine things like Operating System, Database, Documentation, and changes at USPS. Recently in 2025 the certified mail length changed from 20 to 22 digits. For one agency it created two weeks of work. This is not an issue yet, however, it could bring an upcoming change to internal processes. With this improvement we would be able to do it quickly, efficiently and all agencies would be updated at once. Our estimate for each agency to onboard is roughly \$13k (about 48 hours of work).

For reference, one agency sends from 22k to 168k of Certified Mail per year. One agency has stated they send over a million during their busy season. One agency sends out a wide range of correspondence ranging daily from 10k to 410k.