

Teaching Assistant Management System

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Problem Statement

Undergraduate teaching assistants (TAs) are a major resource in courses, but TA management is currently handled manually and is not scalable. A management system is needed to most effectively utilize TAs and allow courses to function smoothly.

Objectives

- Automate the manual processes for TA recruitment, scheduling, and overseeing grading
- Enable TA and Professor communication
- Improve the scalability and quality of CS education

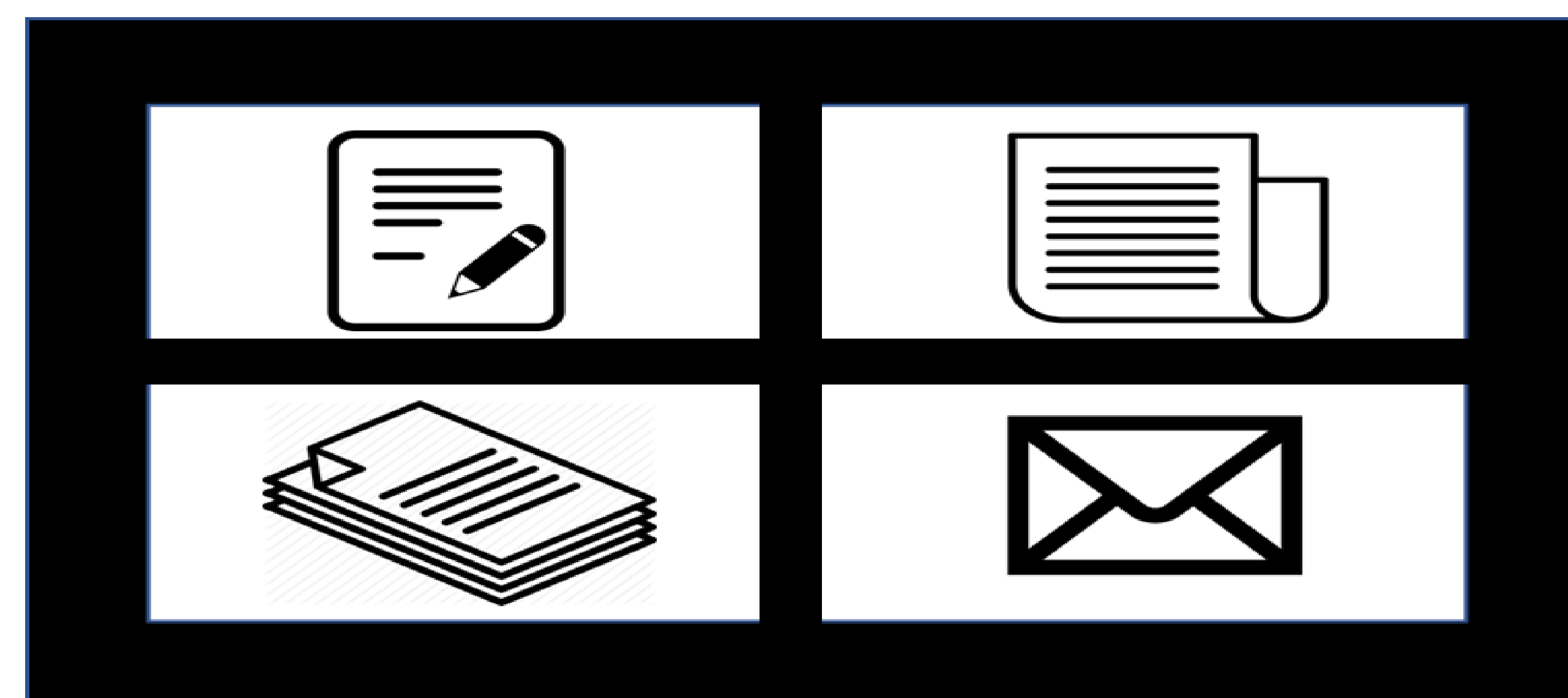
Solution Outline

Web interface:

centralized portal for TAs, professors, and administrators

TA Handbook:

information and policy for the duties and expectations of TAs



Storage system:

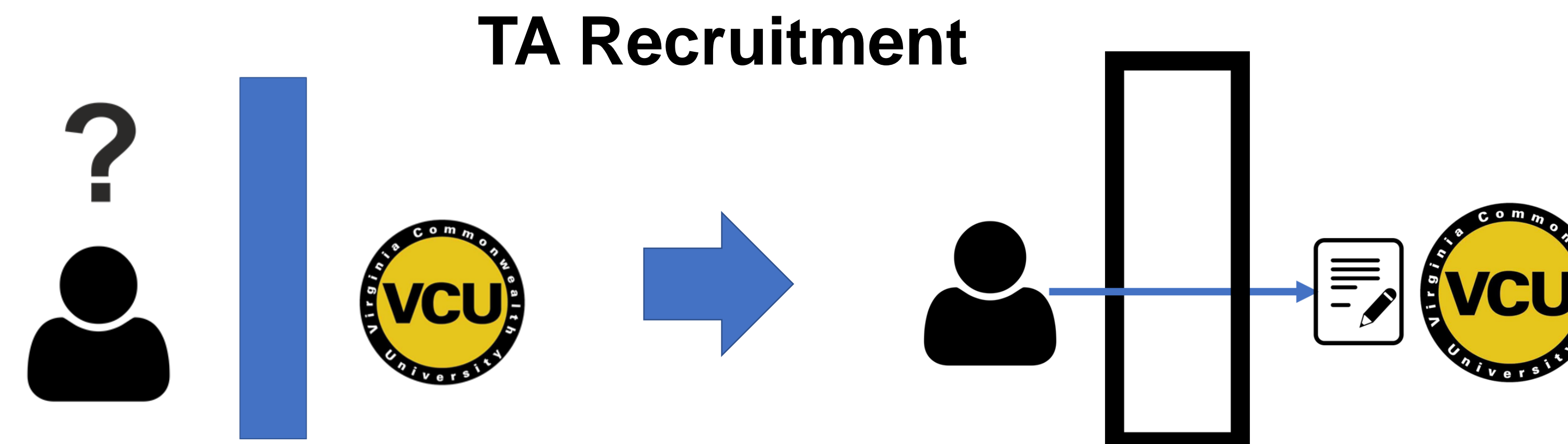
storing long term TA and course information

Automated Notifications:

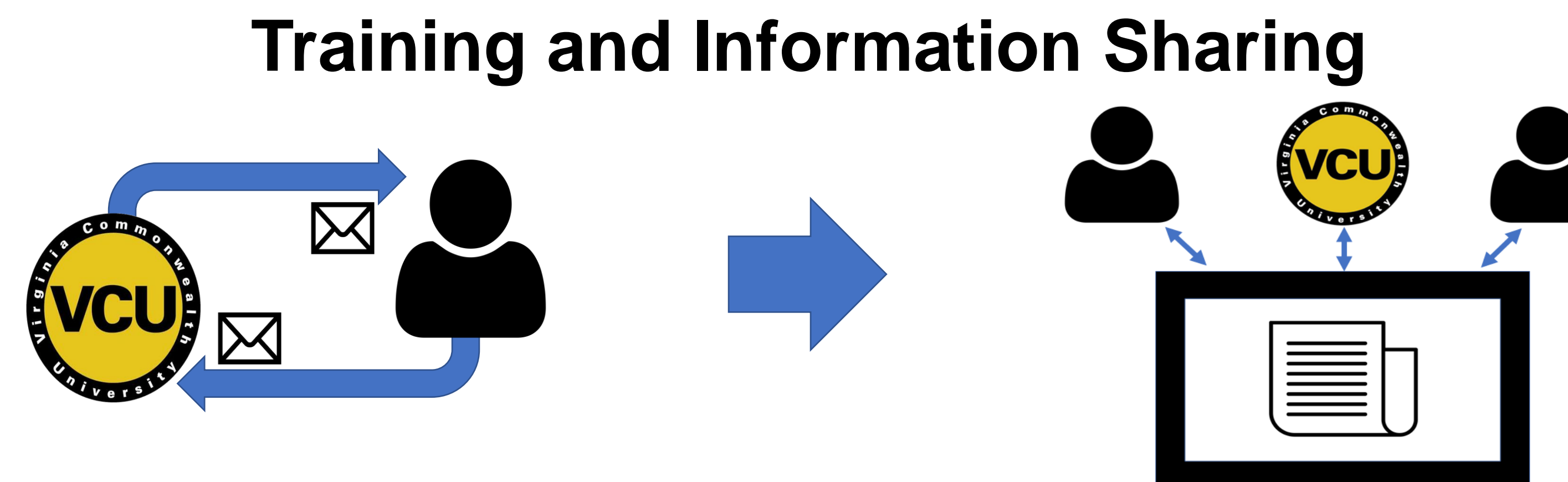
sharing and requesting information automatically

Old Process

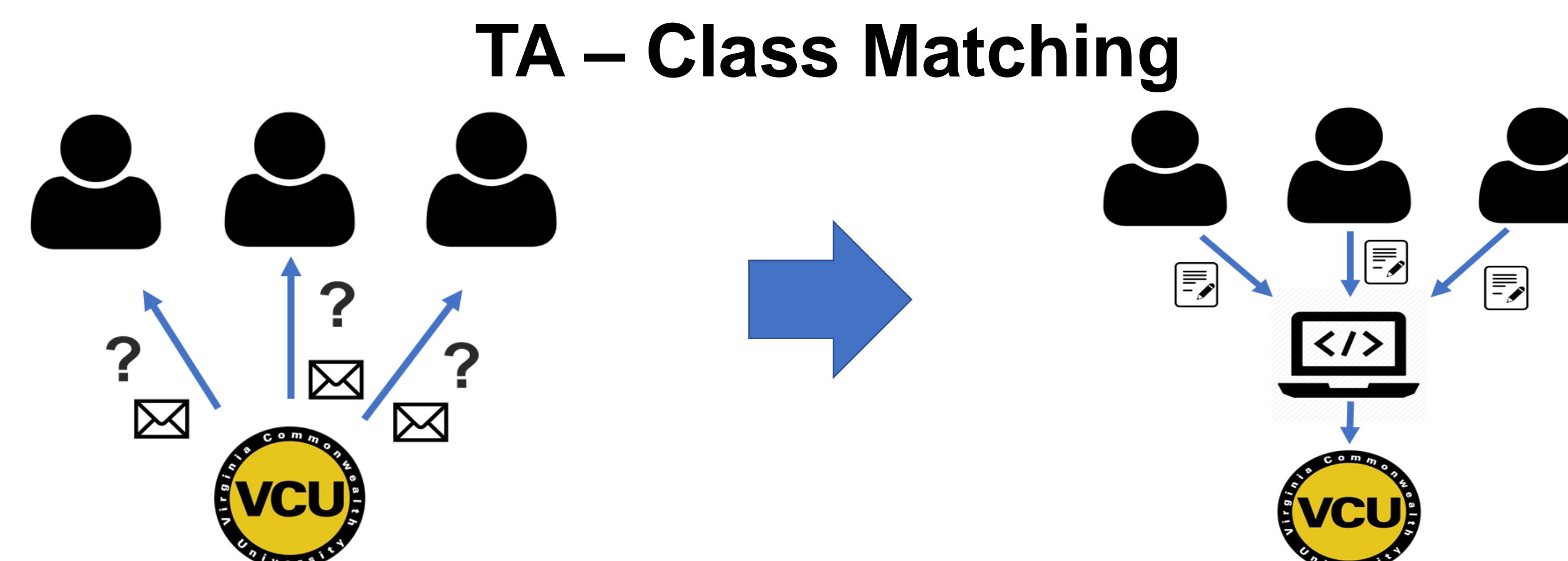
Students do not know how to apply to be a TA



TAs trained individually often through email



Manual emails required to check TA availability



Difficult to record grading progress causing inconsistency



New Process

Application available through web portal

TA onboarding and training information available in a centralized location

TAs added to courses in the app and prompted automatically for updates

Grading can be assigned and progress recorded in web application