Problem

You have been asked to collect and maintain service X subscribers list.

Task

You have been given a CSV file which contains the email address in the first column and subscription expiration date in the second column. Write code to import CSV file and store imported data in SQL database.

Part 1. Back-End

- Create database to store subscriber data.

- Write microservice to expose subscriber data.

- Write microservice action to import file.

- Perform file validation. Extract expired subscriptions.

- Save imported data to database. Only actual (valid) subscriptions should be saved.

- Provide validation errors along with expired subscribers in service response.

- Bonus: write notification job to periodically notify subscribers about subscription expiration. Multiple notification channels should be supported: email, SMS, slack.

Part 2. Front-End

- Create SPA application by using one of javascript frameworks (vue, angular, react). Preferable vue. Consume microservice from Part 1.

- Create UI grid to display subscribers list with subscription expiration dates. Allow users to filter and sort grid.

- Create UI form to allow user to import subscribers data:

  - Multifile input - allows selecting one or more files. Displays selected files.

  - Submit button. Button should be disabled until file(s) selected.

  - Validation errors. Should display validation errors and expired subscriptions after form submitted.

Place code in public source repository (github, gitlab, etc) and provide URL to repository.