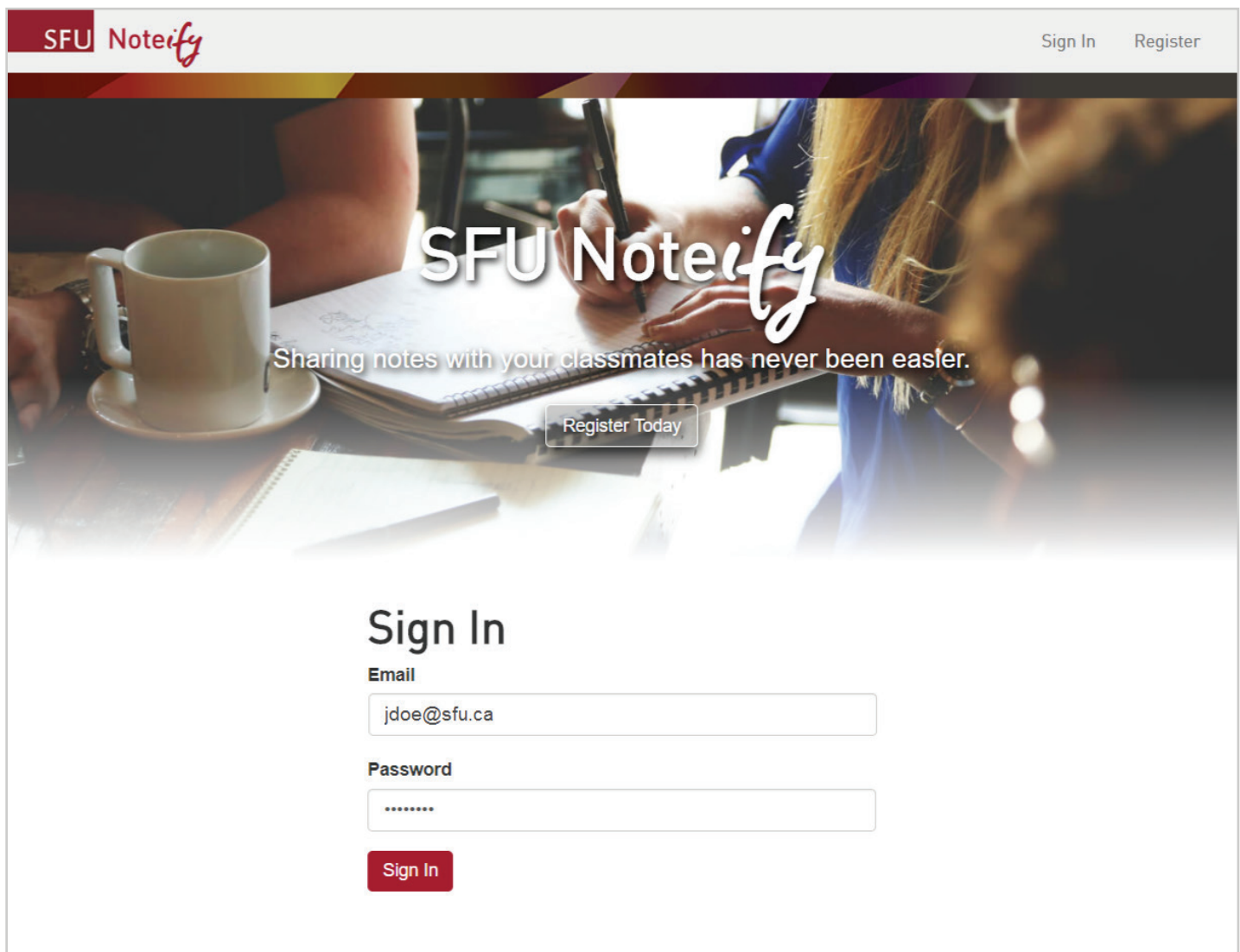
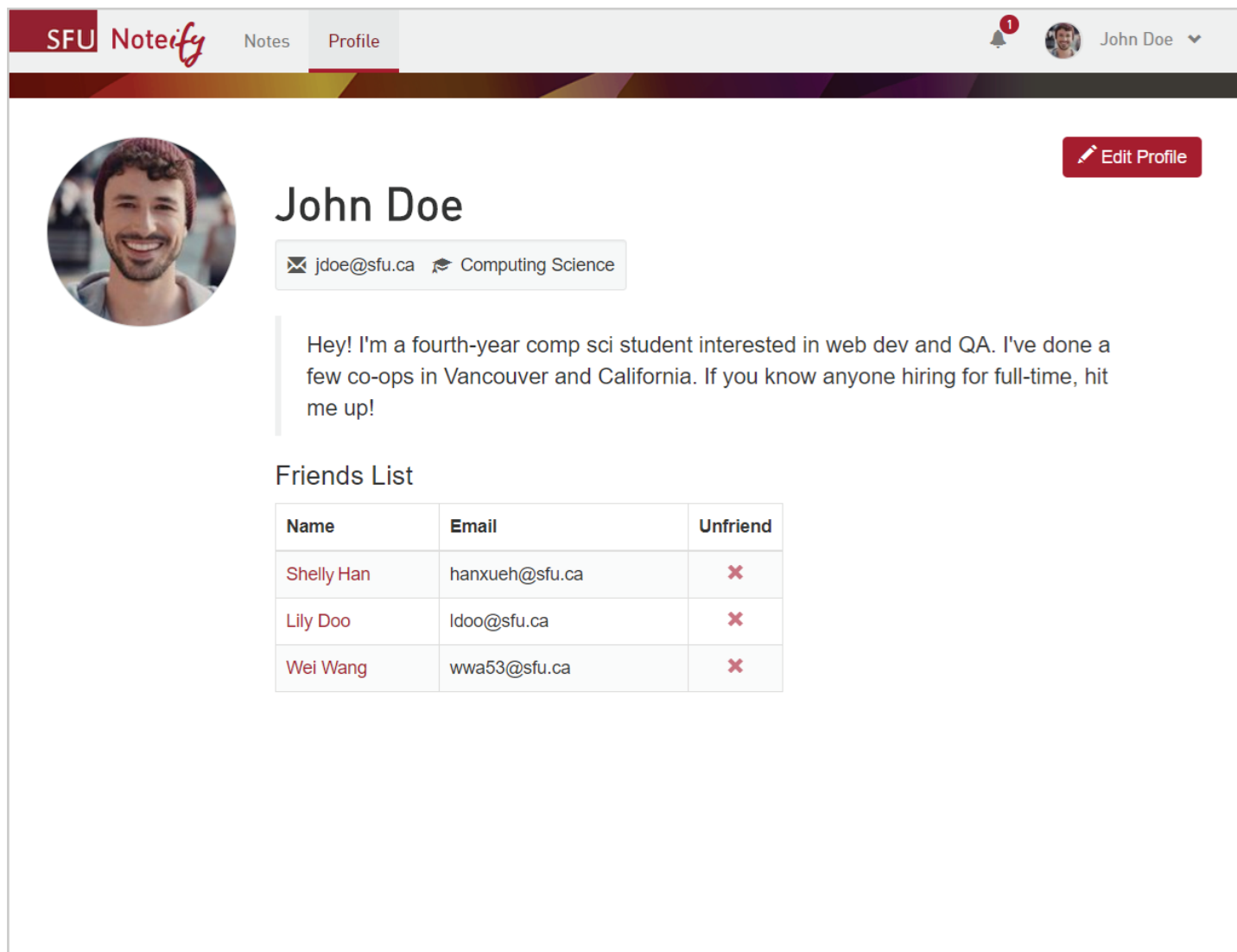


SFU Noteify

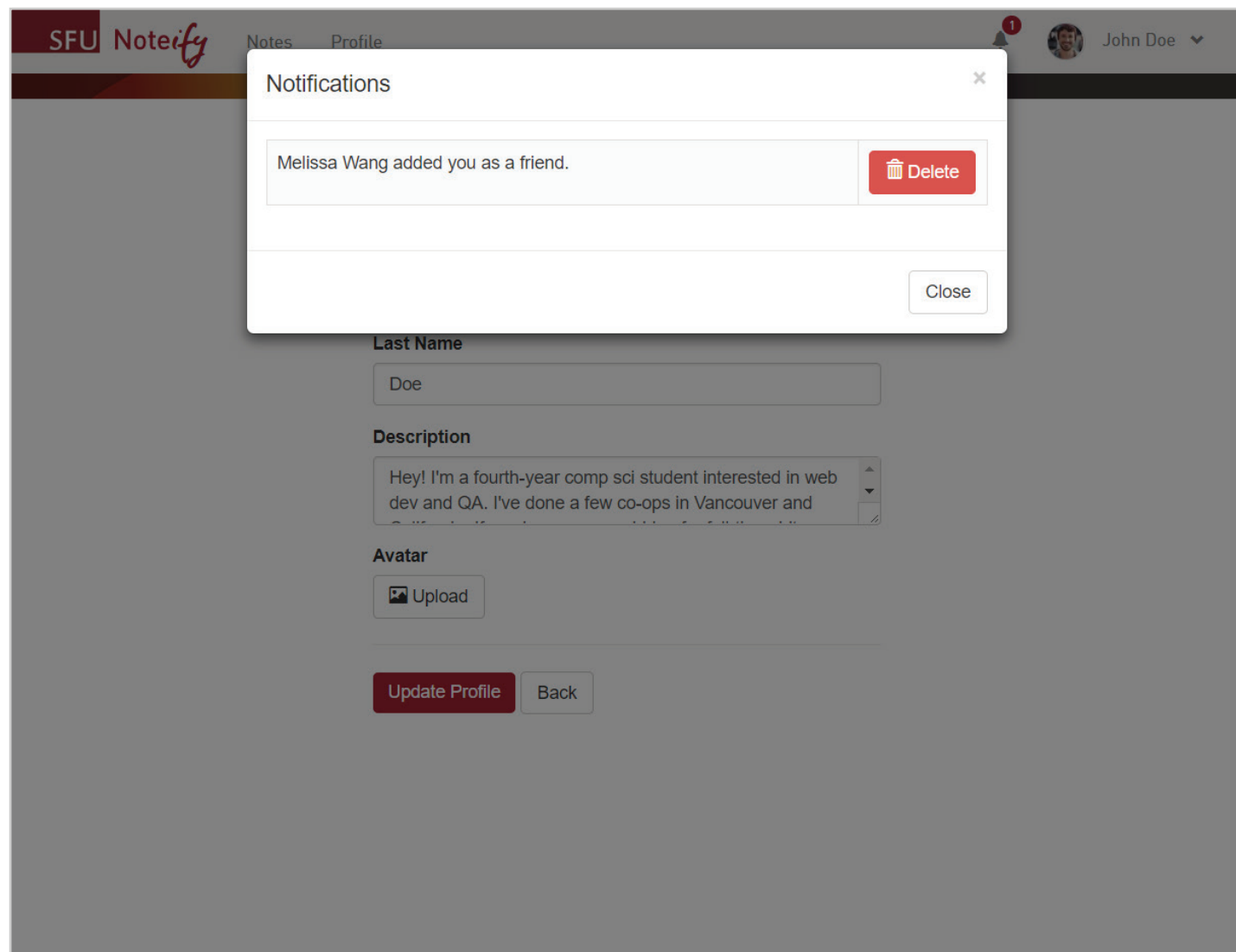
Noteify is a web application for Simon Fraser University students of all faculties where we can easily share course notes online. This is beneficial in situations where students want to help their classmates whom have difficulty taking good notes, cannot attend classes for various reasons such as medical conditions and emergencies, or just want to supplement their own study materials.



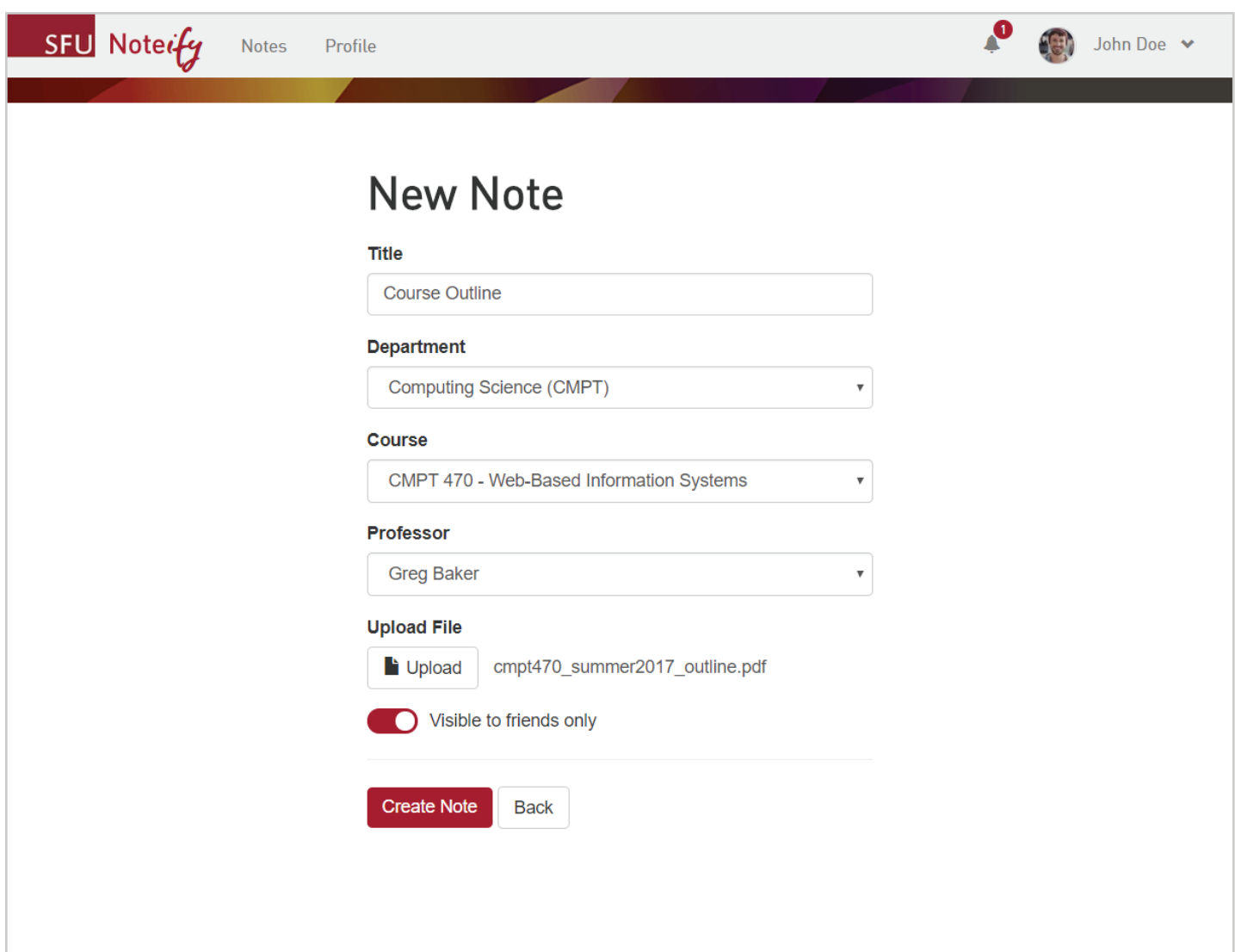
1 Students can register accounts and sign in to Noteify to access its features.



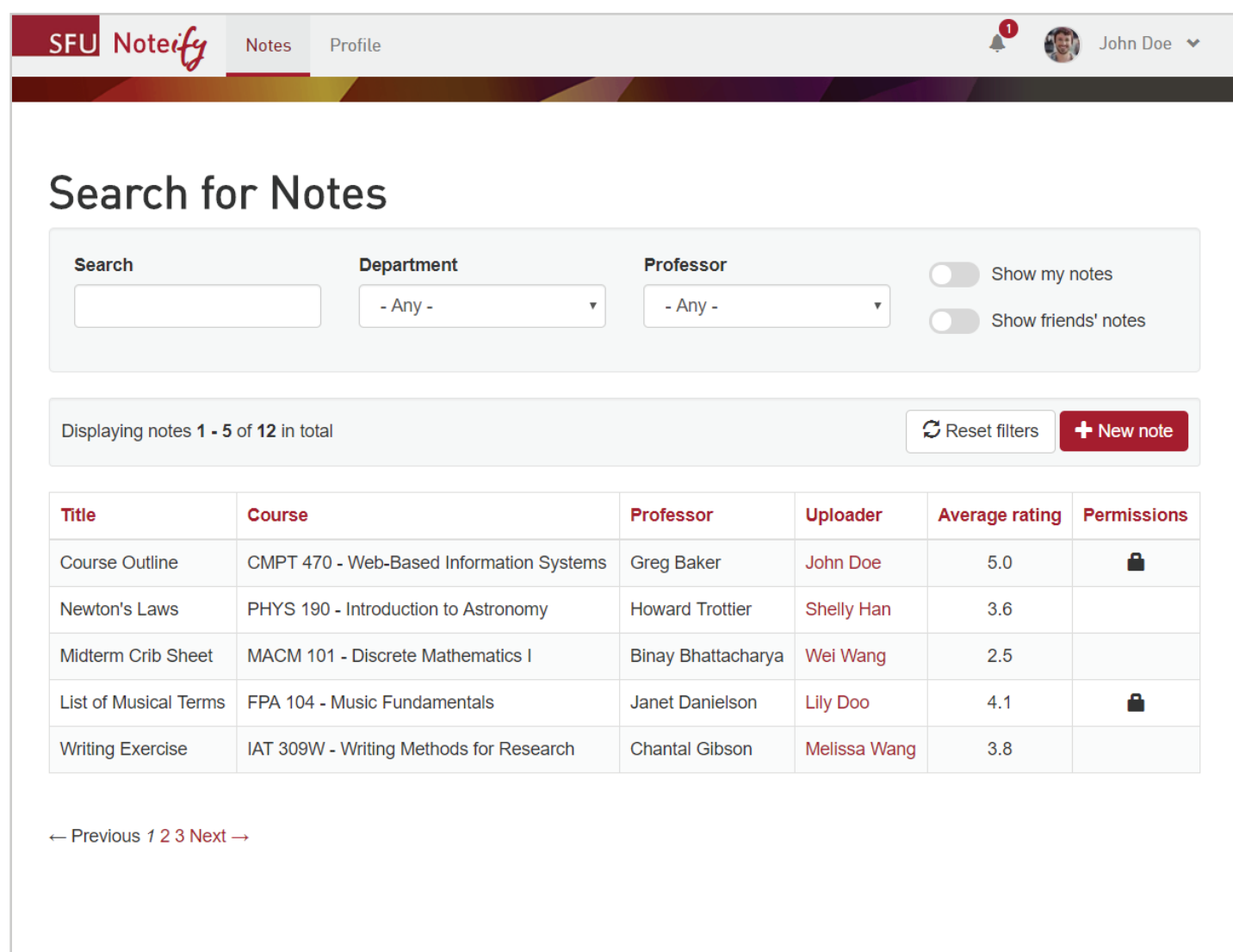
2 Once signed in, students can view each other's profiles and add people to their friend lists to get access to their private notes.



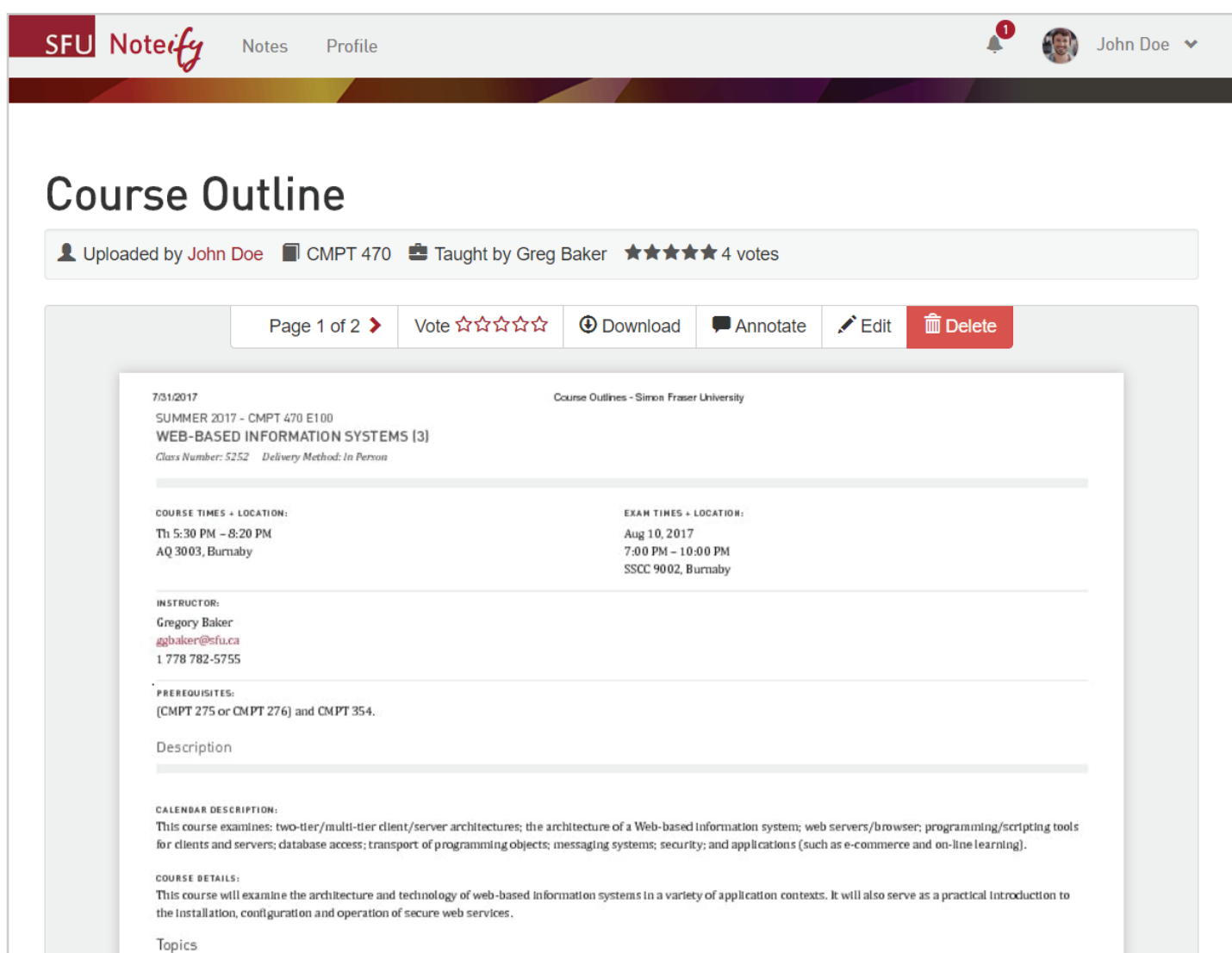
3 Students can edit their profiles and receive friend request notifications.



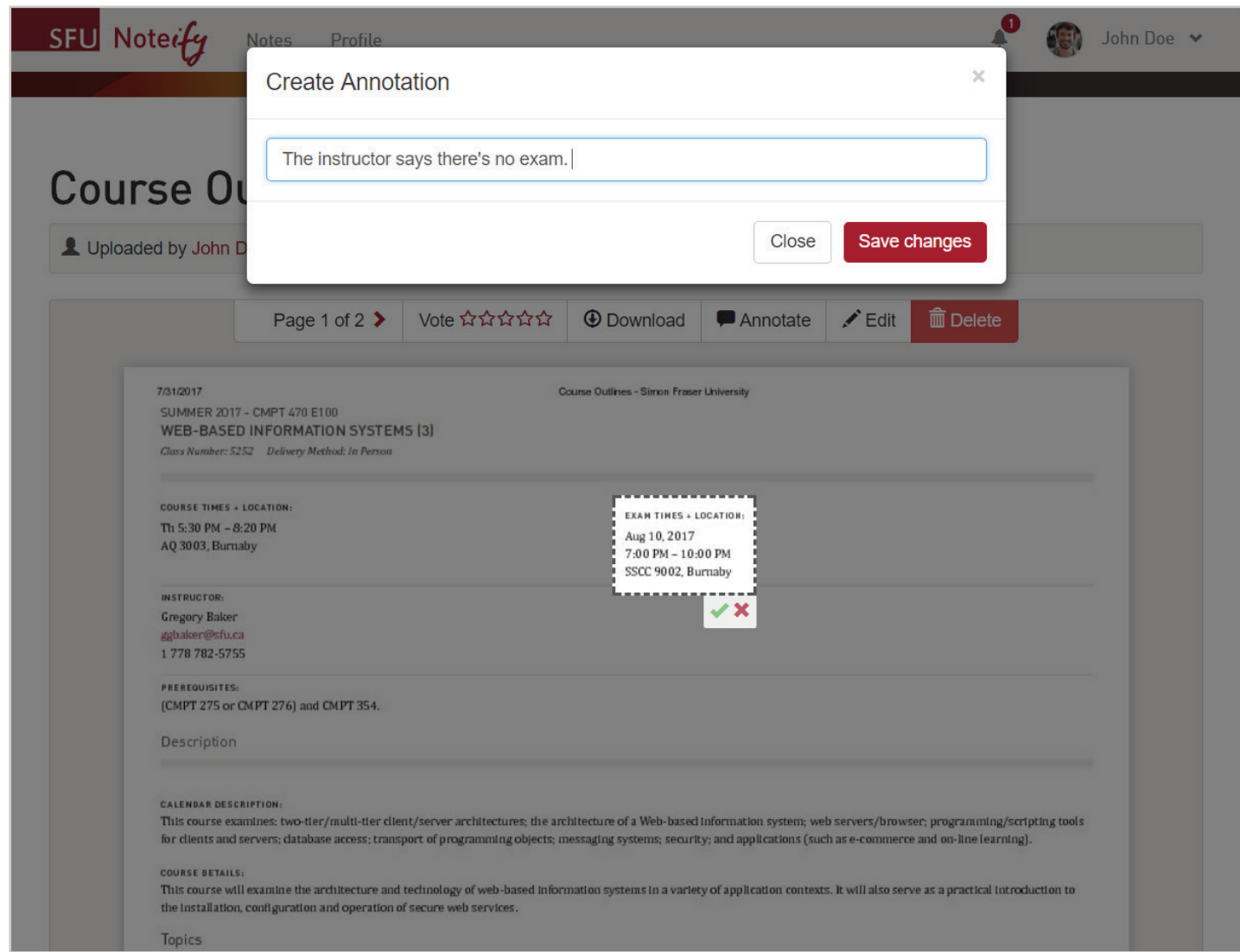
4 Notes can be created by uploading PDF files and filling in information about them. Notes can be set to private so that only friends can view them.



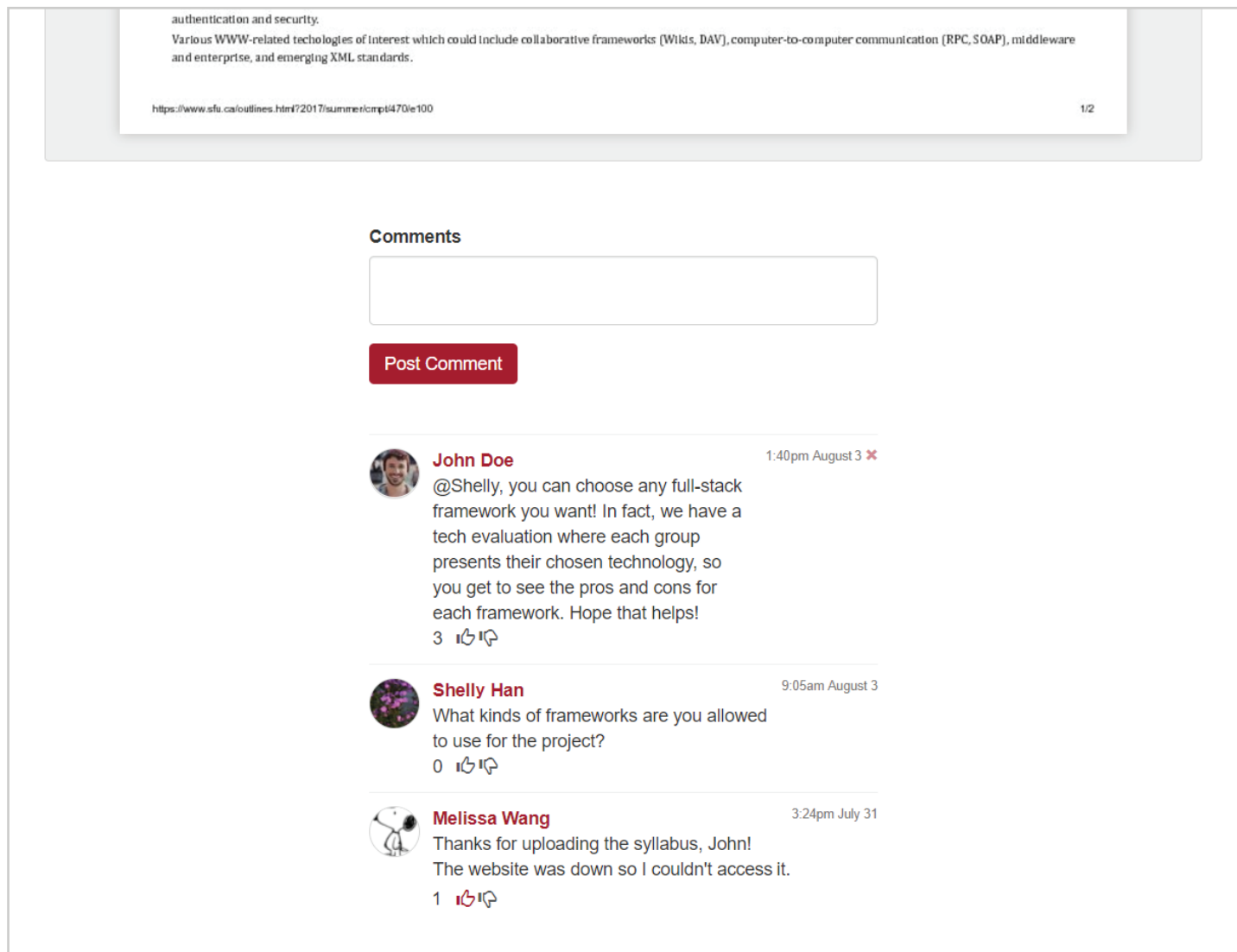
5 Students can search, filter, and sort through a list of public and private notes based on attributes such as title, professor, and average rating.



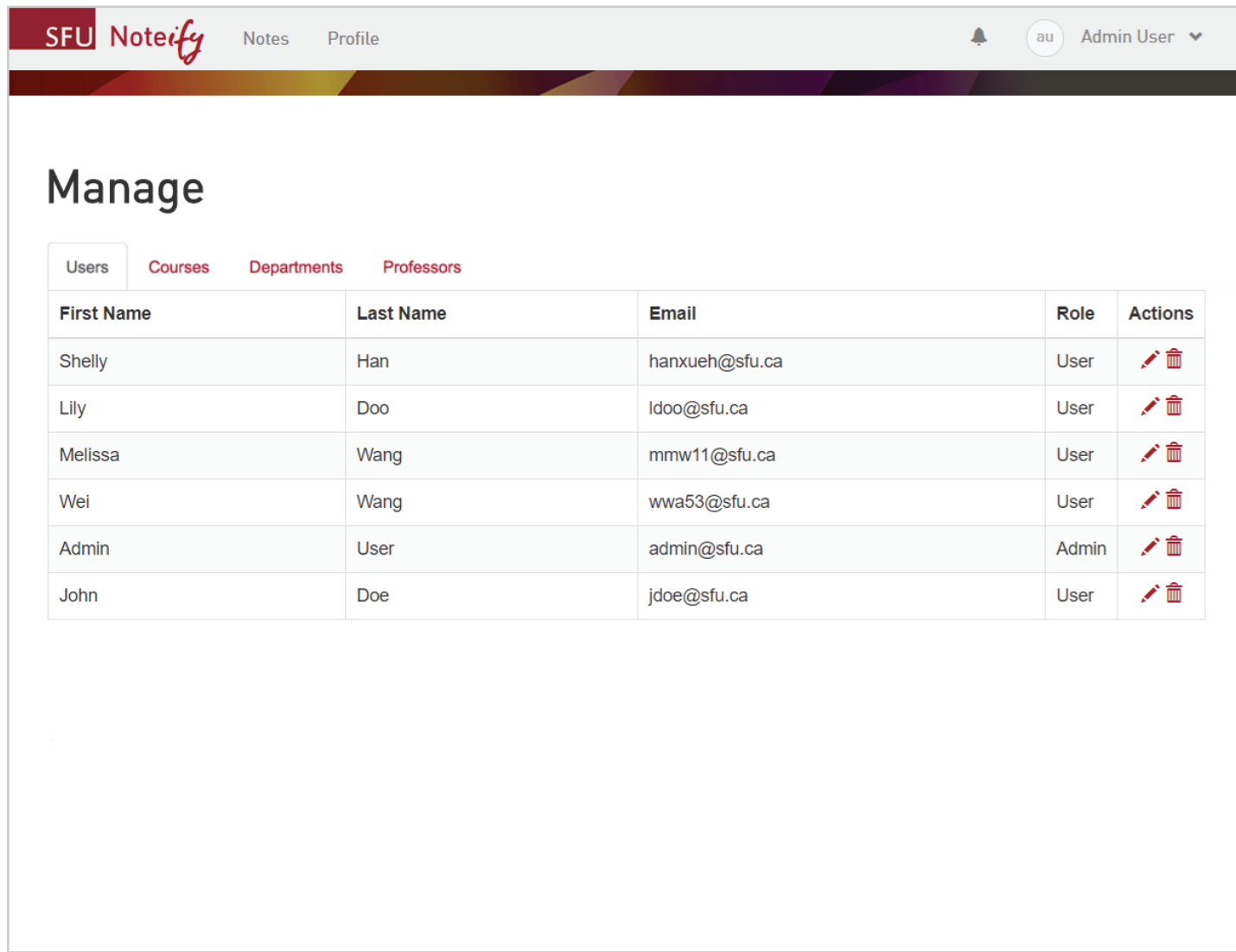
6 Several actions can be performed on notes such as view, rate, download, annotate, edit, and delete.



7 Annotations can be created to highlight and comment on specific areas of notes.



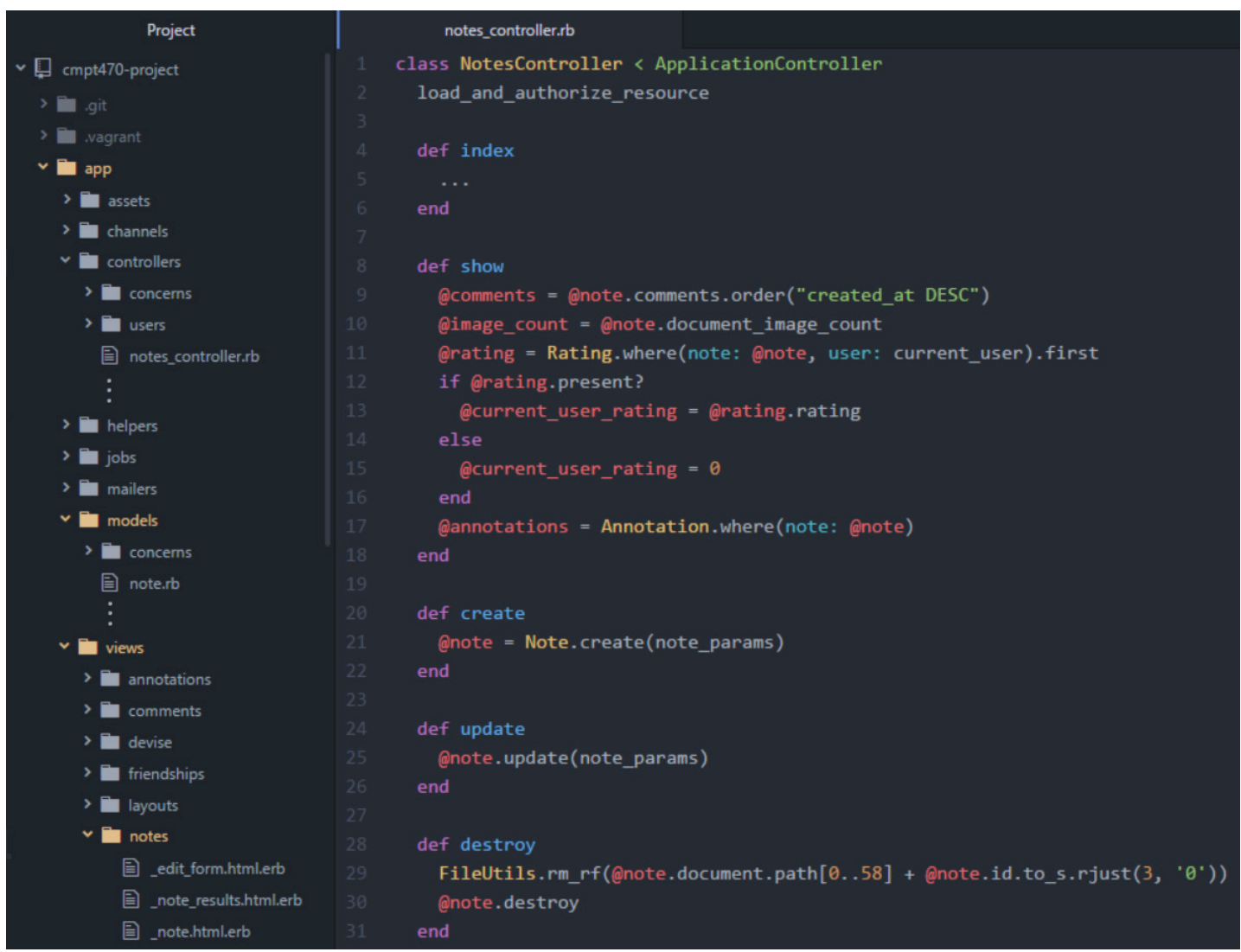
8 Students can comment on notes and vote on comments with a thumbs up or thumbs down to indicate its quality and helpfulness.



9 Administrator accounts can manage users, courses, departments, and professors, delete any notes and comments, and do anything a regular account can do.

Setup

Ruby on Rails was chosen as our full-stack framework to implement Noteify due to its support for rapid prototyping, good web development practices such as RESTful API and the Model-View-Controller (MVC) pattern, and a wide variety of third-party Ruby libraries known as gems.



Gems

bootstrap-sass & jquery-rails

Bootstrap is a front-end framework for developing responsive websites. It is used with Sass, a CSS extension, and jQuery, a JavaScript library that Bootstrap uses to add functionality to its components.

cancancan

Authorization library that restricts what resources a given user is allowed to access such as editing notes. All permissions are centralized in the Ability class to keep the code DRY (Don't Repeat Yourself).

coffee-rails

JavaScript-enhanced language used with Rails to compress CSS and JS assets. It is used in Noteify to manage note page navigation, annotations, note ratings, and dropdown menus.

devise

Authentication library that provides several modules such as registration and login validation that are used in Noteify.

filterrific

Querying library that makes it easy to search, filter, and sort ActiveRecord^[1] objects by relying on ActiveRecord scopes for building database queries.

jquery-ui-rails

User interface library with UI interactions, effects, widgets, and themes built on top of jQuery. It is used in Noteify for dragging and resizing note annotations.

paperclip

File attachment management library used in conjunction with ImageMagick^[2] that manages file uploading and processing. It is used in Noteify for creating thumbnails for notes and profile avatars.

[1] ActiveRecord is a Ruby library for working with relational SQL databases.

[2] ImageMagick is an image manipulation tool for displaying, converting, and editing image files. One of its main features that Noteify uses for uploading notes is converting them from PDF to JPEG.