COSC 340 - Group Project

- Groups of 3-5.
- Must use Python 3 and PyQt 5.
- A large portion of the project should focus on the GUI.
- The usability of the app, i.e., how easy it is to use, is very important.
- Should be cross-platform... runs on Windows, Mac, and Linux with minor effort
- All work will be in GitHub.
- Project will be implemented over a series of 2-3 week iterations.
- Additional tasks will be added throughout the semester (e.g., unit tests, user stories, code documentation, etc.).
- Any code not written by yourself must be clearly documented.
- I reserve the right to request specific features or requirements for your project.

Note Taking Application

- All groups will implement a desktop application for taking notes.
- You will have creative freedom on what features to include.
  - I expect each group’s to be considerably different because of this.
- The basic functionality:
  - Allow text input of notes.
  - Allow notes to be saved, opened, and edited.
  - Multiple notes should be supported.
- Other ideas for functionality that you may add:
  - Security measures: password-protected notes and encryption.
  - Sharing: send content of a note through email or social network using web APIs
  - Organization: labels or folders for managing notes.
  - Search: text search or filters for finding notes.
  - Rich content: embed images or links in notes or allow HTML or Markdown.
  - Misc: nice aesthetics, sleek animations, help features, visualizations, spellcheck, edit history, etc.

See examples on the following pages for inspiration...
Notepad

Prof Henley is my 2nd Favorite professor, even though he made me write code with a bunch of parantheses...

; Our own length function
(define (mylength lst)
  (foldl (lambda (val result) (+ result 1))
         0
         lst))

; Reverse using foldl
(foldl cons '(' '(1 2 3 4))

; Could rewrite it using a lambda
(define (myreverse lst)
  (foldl (lambda (val result)
           (cons val result))
          '(')
          lst))

; Reverse using foldr
(define (myreverse lst)
  (foldr (lambda (val result)
           (append result (list val)))
          '(')
          lst))
**Evernote**

- Title: San Francisco Trip - Conference
- Notes:
  - **Packing list/To-Do's:**
    - Ship all materials for booth [see this packing note](#)
    - Email Penelope and Xander to coordinate meet up on Sunday
    - USB drive with booth presentation materials
    - Timelapse camera setup for booth
    - Extra tablets and charger (5)
    - Book flight to SFO, OAK, or SAC
    - Reserve hotel - Millennium Star
    - Confirm booth location with Moscone
    - Book Sunday dinner reservations
    - Share flight plans with Marus
    - Send Marie email - confirm lunch plans on Wednesday
    - Call credit card company
    - Get map of Moscone area
    - Confirm doigtter
    - Check passport expiration dates (follow-on trip to Vancouver)

- Tags:
  - Travel
  - Travel Ideas for Family Road Trips

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**iOS Notes**

- Title: Beach Vacation
- Notes:
  - From June 23 - June 30
  - Arrive Saturday afternoon:
    - Pick up rental car
    - Drive to the beach so the kids can wind down
    - Dinner at outdoor restaurant
  - To do:
    - Check into hotel (confirmation #1234567890)
    - Sign up for parasailing for tour
    - Make dinner reservations
    - Pick up rental car (confirmation #1234567890)

- Subheading: Body