

## **COSC 340 - Group Project**

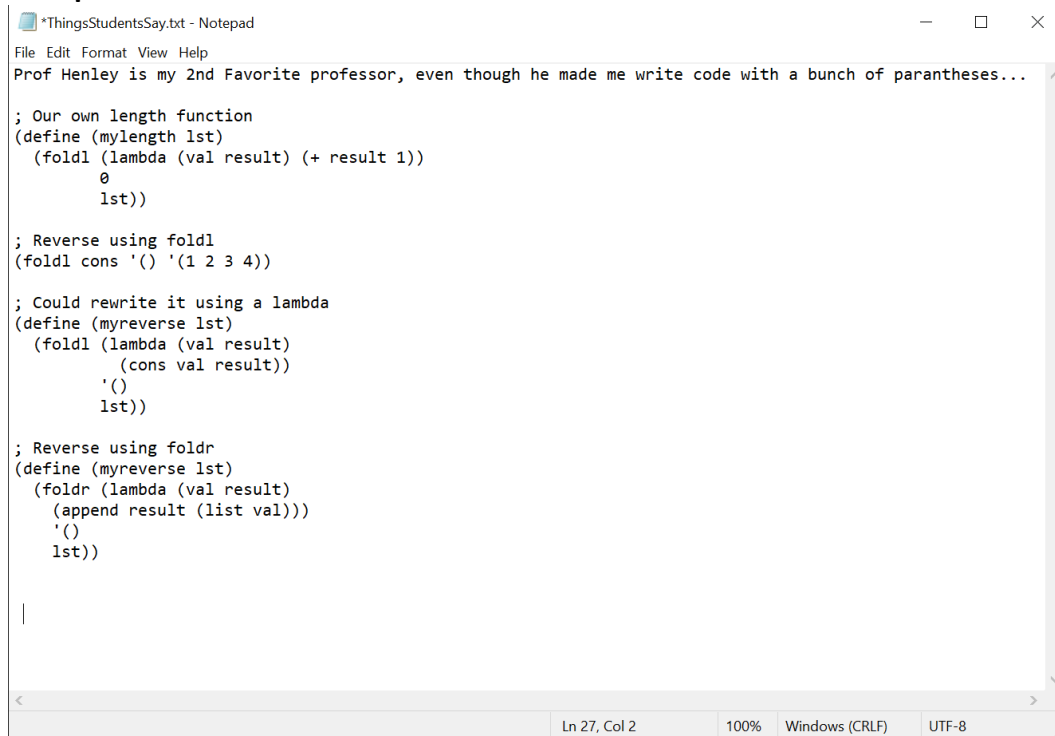
- Groups of 3-5.
- Must use Python 3 and PyQt 5 or 6.
- A large portion of the project should focus on the GUI.
- The project must incorporate using a web API.
- The usability of the app, i.e., how easy it is to use, is very important.
- Should be cross-platform... runs on Windows, Mac, and Linux with 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.
- You may work on a pre-approved project (Wiki reader, weather app, or note taking app) or you may propose a project to us.

### **Example: 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



```
*ThingsStudentsSay.txt - Notepad
File Edit Format View Help
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))

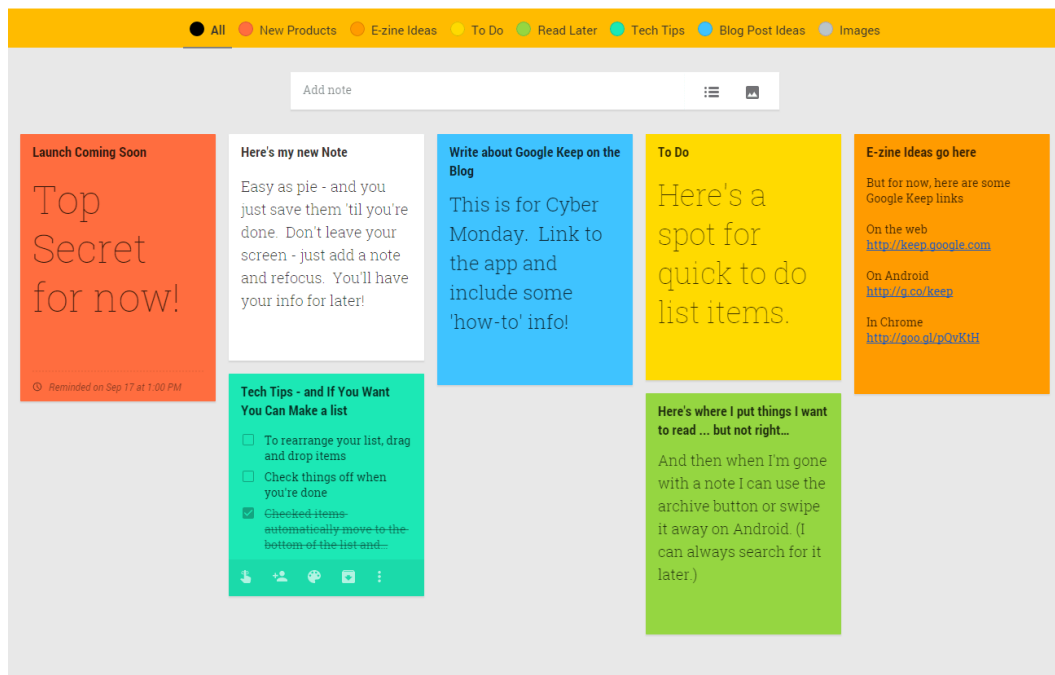
; Reverse using foldl
(foldl cons '() '(1 2 3 4))

; 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))

Ln 27, Col 2    100%    Windows (CRLF)    UTF-8
```

## Google Keep



## Evernote

All Notebooks - Ezra Bridger - Evernote

File Edit View Note Format Tools Help

Sync

New Note

Shortcuts

All Notes

Notebooks

- Inbox (6)
- Conflicting Changes (1)
- Family
- Home
- Travel
  - Business Travel - re... (1)
  - Personal - Past Travel (3)
  - Personal - Travel D (3)
  - Personal - Upcomi... (5)
- Work
  - Meeting Notes (10)
  - Presentations - Int... (1)
  - Presentations - Sales (2)
  - Team Projects (20)
  - Work Contacts (6)
  - Work ToDos (2)
- Tags
- Trash (17)

travel

Viewing 15 notes in All notes matching All of the following: contains words starting with travel

Found notes with travel, travel ideas, travel log and travel ideas for family road trips in several notebooks and in Trash

Reminders (1)

Personal - Travel Docs

Fwd: Best Travel Booking C... 12/26/2017

San Francisco Trip - Conference

Today 1:56 PM: Conference Session Highlights (more on conference website): Date Plans Location Note...

Ongoing Receipt Captures from Bus... Today 10:49 AM

2018 04 Confirmations for ... Today 10:49 AM

Travel Ideas for Family Road Trips

San Francisco Trip - Conference

Share 5/11/2018

Segoe UI 10 a B I U T ( )

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 SJC
- ☐ Reserve hotel - Millenium Star
- ☒ Confirm booth location with Moscone
- ☒ Book Sunday dinner reservations
- ☐ Share flight plans with Markus
- ☒ Send Marie email - confirm lunch plans on Wednesday
- ☒ Call credit card company
- ☒ Get map of Moscone area
- ☐ Confirm dogsitter
- ☐ Check passport expiration dates (follow-on trip to Vancouver)

## iOS Notes

