

## **CMSC436 Project Proposal: TerpTales**

### **Project Team 8**

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### **App Description**

TerpTales is an e-book reader designed to enhance the reading experience for users across a variety of mediums, including textbooks, novels, and magazines available as a PDF file. With TerpTales, users can navigate through their digital library, accessing a vast array of content at their fingertips. Additionally, TerpTales incorporates innovative flip detection technology, utilizing accelerometers to enable users to seamlessly turn pages with a simple gesture, further immersing them in their reading journey.

### **Minimal Goals**

1. Basic e-book reading functionality, including the ability to open, navigate, and display e-books in various formats.
2. Bookmarking feature to allow users to mark important pages.
3. Simple highlighting functionality to emphasize text.
4. Basic annotation feature for users to add notes to e-books.
5. User interface design for intuitive navigation and ease of use.
6. Filter for sorting the books (i.e. alphabetically, genre, chronologically, etc.)
7. Functionality to detect phone side-tilt movement to flip a page forward or backward

### **Stretch Goals**

1. Text-to-speech reader
2. E-book store where users can purchase books in the app

## **Project Timeline**

### **Milestone 1**

- Researching and identifying suitable APIs for accessing e-book content, considering factors such as availability, documentation, and compatibility with the project requirements
- Implement a mockup of the app's interface, which includes basic functionality such as viewing the book covers
- Create functionality to open the books and view the corresponding pdf

### **Milestone 2**

- Add recently added section and categories section in home page
- A bottom tab with functional icons for the home screen, explore page, and settings
- Implementing "flip" detection using accelerometers to change pages

### **Milestone 3**

- A settings page with help (FAQs) and a section for adjusting appearance and features
- Filter
  - Provide options for different filters:
  - Alphabetically ordered
  - Chronologically ordered
  - Date added ordered
- Ability to highlight sections of text and bookmark pages within the file

## **Final Submission**

All our minimal goals will be fully implemented and functional, we will now proceed to the stretch goals. We will create a demo for the app.