

## Project 6 Proposal - ByteMe

Carter Brown: Cloud-based note taking - User signs in to their notebook and can take notes anywhere on any machine.

Ally Chitwood: Environmentally conscious decision-making - People can track and be rewarded for actions that reduce harm to the ecosystem.

Dan Greer: OSU Craigslist - Verified OSU students and faculty can sign in with their OSU name and dot numbers to put items up for sale or to contact sellers.

Will Greenway: A wholistic expansion of fitbit type tracking to cover all aspects of personal fitness: expanding metrics to include financial health, time management, career goals, etc.

Nathan Simpson: Webapp that helps people new to stock trading make informed decisions. Would look at each user trading interests and track market trends that relate to them.

**Final Decision:** Cloud-based note taking

**Intro:** Will Greenway

For the final project, we plan to design and develop a cloud-based note taking application using Ruby on Rails. The modern user demands simple and streamlined access on multiple platforms. While note taking software is found in practically all consumer products, their sharing capabilities are limited to a single device or set of devices with the same operating system. By implementing cloud-based note taking, former platform restrictions are eliminated. Thus providing a freedom and flexibility that matches the new standard for application software.

**Model:** Daniel Greer

The model for this app will consist of a database with several tables. One such table is users, which will store a unique user id alongside an email and password. This will allow users to sign in to save their notes, while also allowing them to reset their password if necessary. This naturally brings up another table, with all of a user's notebooks. These notebooks would then have a user's notes inside of them, nice and organized into distinct groups. Breaking up notes into notebooks allows the user to not only have additional features in terms of organization, but it also keeps the table sizes small, allowing for faster access. The model will support adding new users, updating users' information, adding new notebooks, deleting notebooks, updating notebook names, adding notes to a notebook, removing notes from a notebook, and updating notes in a notebook.

**View:** Ally Chitwood

On the view side of this app, the user will first step through a login process. The login portal will utilize buttons for existing and new users. Once logged in, the view will include a full directory of the user's colored folders and notes in a grid. Each existing note will display

previews of the first section, with its title and date of last edit. Alternatively, the user can choose an add button to create a new note. An opened note for editing will display simply formatted text as typed and the option to attach photos to each note document. There will also be buttons with option to toggle on checkboxes, bullets, and an outline format. These features will allow for an interactive and thorough interface for the user to create, format, and display their important notes.

**Controller:** Nathan Simpson

The personalized data for each user will be stored on the server-side. Each time a user makes a valid login request, the app will retrieve the user's personal setting from the server so that the view will be displayed correctly. The names of all folders and note files will be sent to the client so that requests can then be made to the server to access files which can be read and edited. Once note files are saved by the user, the updates will be sent to the server using the controller.

**Extras:** Carter Brown

Extra features for this app will focus mostly on supplementing the user's study experience. A music player would allow the user to listen to music while they go back over their notes. Mini-games give the user an opportunity to take a 5-10 minute break and reduce stress. An added theme feature would allow the user to customize their experience and feel at home when they log in. These extra features would take our app from a simple notebook to a customizable study environment.