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Web Application Name: DIARE - Digital Interpretation of Analog Rapid-logging Entries

Project Summary:

[Bullet Journal](#) is a productivity framework designed by a man named Ryder Carroll. The system is designed to be a to-do list, diary, notebook, and sketchbook. While the productivity framework prides itself on being “the analog system for the digital age”, meaning that it is implemented in a physical notebook, we believe that digitalizing the framework can make it even more powerful.

We plan to take all of the main features that make Bullet Journal great and use them to create the base of the functionality of our website. However, we will also modify some of these features using the capabilities that only a non-analog environment can provide. For example, in the analog version of Bullet Journal, when a user wants to log an event, they add it as a bullet item to the current page they’re on in their notebook. They then also have to add the event to the “Future Log” section of the notebook, which is essentially a calendar. In our modified, digital version of Bullet Journal, when a user adds an event to the page they’re on, our system will automatically add the event to their calendar.

In addition to modifying the functionality of the original Bullet Journal system, our site will need an authentication/user account system. This will allow each user of our site to have their own, private journal which is saved in our backend. That way, whenever a user logs in, they will immediately have access to the most up to date version of their journal.

Our modernized interpretation of Bullet Journal will have enhanced portability in addition to improved features. While most people do not constantly carry around a notebook or journal, many people do already have a smartphone or laptop in their possession. Our website will boost productivity without adding one more item to the user’s bag. It will be designed to work well and look great both on mobile devices and larger screens.

Our website, Digital Interpretation of Analog Rapid-logging Entries (DIARE) will be “The enhanced digital interpretation of the analog system for the digital age”.

Reasoning Behind Application Choice:

We chose DIARE as our project because of it’s interesting scope; we liked the idea of taking an analog system that already works well and bringing it into the digital environment. There’s a lot of room for interpreting features to implement, so the project will be challenging to us both as developers and designers.

Stakeholders:

- *Developers* - Working on this project provides us, the developers, with a valuable experience. We are able to apply what we learn in class to a real world application.
- *General Public* - This application provides the public with a digital organization system, which can be used both personally and professionally to increase productivity.

- *Power Users* - Users who will customize the settings and use all of the features to help improve their organizational workflow. For example, they are the users that will use keyboard shortcuts.
- *Standard Users* - Users who will use the standard settings and use some of the features to help improve their organization workflow. They will likely use the User Interface extensively instead of using keyboard shortcuts.

Technologies Summary:

- Express / NodeJS for backend
- MongoDB for database
- Either Angular 2 or ReactJS for Javascript framework
 - Decision will be made by later date -- see schedule
- HTML5 / CSS3
- User Interface framework such as Bootstrap or Angular Material
 - Decision will be made by later date -- see schedule

Project Schedule:

- **January 29th - February 4th:** Decide on remaining frameworks
- **February 5th - 11th:** Setup stack
- **February 12th - 18th:** Accounts
- **February 19th - 25th:** Basic Functionality
- **February 26th - March 4th:** Presentation work
- **March 5th - 11th:** March 6th & 9th Midterm Presentations
- **March 12th - 18th:** <Spring Break> Search Functionality
- **March 19th - 25th:** Module Functionality
- **March 26th - April 1st:** Module Auto-population
- **April 2nd - 8th:** Customizable Keyboard Shortcuts
- **April 9th - 15th:** Usability Testing
- **April 16th - 22nd:** Final Presentation Work
- **April 23rd - 29th:** April 24th & 27th Final Presentations

Functional & Non-Functional Requirements:

Functional:

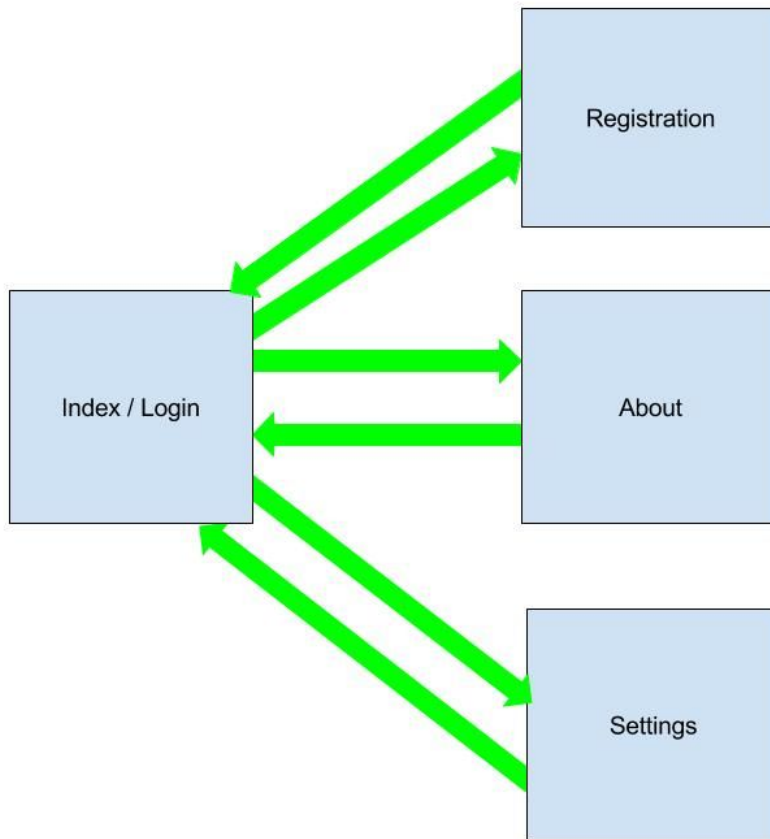
- Create tasks by using • symbol
- Create notes by using - symbol
- Create events by using ° symbol
- Auto populate pages with events
- Tag tasks & notes with topic by using # symbol
- Access related topics by clicking # symbol
- Search functionality
- Prioritize tasks & notes by using * symbol
- Create new pages with a title

- Login Authentication
- Password Salting
- *Stretch* OCR functionality to interpret handwritten symbols

Non-Functional:

- *Usability* - Must be able to accommodate workflows without impeding user.
 - Customizable keyboard shortcuts
 - Hover descriptions & menus to allow editing of symbols
 - Click text-field of entity to allow quick editing
 - Keyboard shortcuts to accommodate defined actions
 - U.I. to accommodate defined actions
- *Mobile Friendly* - Site must be highly usable and well formatted on mobile devices such as smartphones.
- *Performance* - Must be able to store, search for, and retrieve tasks & notes without significant performance decrease.
- *Scalability* - Must be able to support a large number of simultaneous users, and remember their user preferences.

Site Map:



Wireframe:

