

Major group project report

Project title:

Digital Journaling App

Team:

WHIONS

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1. Introduction

Bloom, our web-based journaling application, provides an aesthetically pleasing and easy to use platform for individuals to engage with their thoughts and emotions through journaling. Our primary objective is to empower users to develop a sustainable habit of daily journaling, thereby enriching their personal development. We also want users to be able to have a digital record of all their entries that they can view easily and reflect upon them. Another goal of ours was to allow users to be as creative as possible whilst journaling.

Bloom is a Django based web application, It can be used on any web server e.g. Google Chrome. The technology stack that we used to build it consists of the following: Django, Python, JavaScript, HTML, CSS. It has been deployed using Heroku.

2. Features

Feature	Implementation	Purpose
Log In	On the landing page when the user icon in the top left is clicked a drop down appears where the user can select log in and they are redirected to the log in page where they can enter their log in details.	This feature addresses our business objective of motivating users to develop a habit of regular journaling as the ability to create an account to which all the users data can be saved in allows users to have motivation (e.g. email reminders) tailored to them.
Sign Up	On the landing page when the user icon in the top left is clicked a drop down appears where the user can select sign up and they are redirected to the sign-up page where they can fill in the form with their credentials.	This feature addresses our business objective of motivating users to develop a habit of regular journaling as the ability to create an account to which all the users data can be saved in allows users to have motivation (e.g. email reminders) tailored to them.
Calendar	On the home page there is a calendar. Upon clicking a day, the journal entries made for that day can be viewed. You can flip through the months	The calendar provides the user with a unique visually pleasing way of storing and viewing all their journal entries which addresses our business objective of

	as well as select a specific month and year to view.	providing our users with a aesthetically pleasing and easy to use application.
Streak	The streak is at the top of side bar in glowing text. The streak shows the number of days that the user has created journal entries consistently for. The streak will go back to 0 if a day of journaling is missed.	The streak feature is a gamification feature which addresses our business objective of motivating users to develop a habit of regular journaling. Users will be motivated to journal daily so that their streak doesn't go back to 0.
Weekly Growing Flower	The weekly flower is a plant pot with soil upon the user signing up for an account. Each day that a user creates a journal entry the flower grows. If a day of journaling is missed, then the flower returns to a plant pot with soil in it. At the start of each week, the flower growth is reset.	The weekly growing feature is a gamification feature which addresses our business objective of motivating users to develop a habit of regular journaling. This is because, there is a visual incentive to see the grower grow till it fully blooms and to prevent it from dying. A time frame of 7 days is an achievable goal for users to ensure they remain motivated.
Creating Templates	To create a template, the user must navigate to the templates page using the side bar. The user must then click the create template button and they will be redirected to a page where they can name their template + create questions for the template.	This feature addresses our business goal of allowing users to be as creative as possible whilst journaling since they can create their own templates. It also addresses our business objective of providing our users with an easy-to-use application as they can reuse templates as opposed to having to create entries from scratch every time.
Creating Entries	To create an entry, the user must navigate to the journal log page using the side bar. The user must then click the new journal entry button. They will be led to a page	This feature addresses our business objective of providing our users with an easy-to-use application as they have the option to dictate their thoughts rather than having to write them.

	where they can name their entry, write it or dictate it (using the voice to text feature) and choose how they are feeling from a drop-down menu of emojis.	
Editing Entries	Next to each entry there is a pencil icon. Upon clicking the pencil icon, the user will be able to entirely edit their entry.	This feature addresses our business goal of allowing users to be as creative as possible whilst journaling as they have the ability to add thoughts to entries whenever they want to.
Locked Templates	When the user navigates to the templates page via the side bar there will be locked templates present on the page. These templates are unlocked after a number of days (the number of days they have to wait is not revealed to them).	This feature addresses our business objective of motivating users to develop a habit of regular journaling as the locked templates will serve as an incentive for the user to return to the web application every day to journal so that they can check whether the template is locked or not.
Setting Preferences	When the user completes the sign-up form, they are lead to a page where they can select the time and days at which they would like to be sent an email reminder. They also have the option to opt out of email reminders.	This feature addresses our business objective of motivating users to develop a habit of regular journaling as they will receive tailored email reminders.
Deleting Entries/ Deleting Templates	There are two ways in which a user can delete journal entries. The first way is to individually delete them. This can be done by clicking the bin icon next to a journal entry. The second way is to click the select button (at the top of the journal log and favourites page), select the entries that	This feature addresses our business objective of providing our users with an easy-to-use application as the process of deleting and recovering is structured very clearly within the app.

	<p>you want to delete and then press the bin icon underneath the select button. Upon doing either of the above, the journal entries are deleted but can still be viewed on the trash page. On this page you have the option to permanently delete or recover each journal entry.</p>	
Mood Breakdown	<p>To view mood breakdown, the user must navigate to the mood breakdown page via the side bar. This page will display their most common mood of the day, month and year. It will also display their monthly moods on a bar chart.</p>	<p>This feature addresses our business objective of motivating users to develop a habit of regular journaling. This is because being able to track and analyse their mood provides them with an incentive to journal more.</p>
Exporting Journal Entries	<p>To export a journal entry, navigate to the journal log or favourites page via the sidebar. Click the select button. Then select the entries you would like to export. When the user clicks the export button, a drop down will appear allowing you to download the entry as a pdf/rtf.</p>	<p>This feature addresses our business objective of providing our users with an easy-to-use application as the process of deleting and recovering is structured very clearly within the app. It also allows them to save their entries so that they can view them without internet.</p>
Transcribing Journal Entries	<p>To transcribe a journal entry, the user must click the microphone icon and then start speaking.</p>	<p>This feature addresses our business objective of providing our users with an easy-to-use application as they have the option to dictate their thoughts rather than having to write them.</p>
Adding Images to Journal Entries	<p>To add an image to a journal entry within the text editor, click on the</p>	<p>This feature addresses our business goal of allowing users to be as creative as</p>

	image icon, then go to the upload tab, upload your image, click 'send it to the server' and lastly click the ok button.	possible whilst journaling as they have the option to add visual elements to their entries.
Editing Preferences	If a user clicks the profile icon on the side bar a drop down will appear where they can select 'edit preferences' to edit when they would like email reminders/if they want them at all.	This feature addresses our business objective of providing our users with an easy-to-use application as they have the flexibility to edit their preferences.
Search Feature	On the journal log page and the favourites page there is a search bar where the user can search for their journal entries by either the name of the entry or by the text within it.	This feature addresses our business objective of providing our users with an easy-to-use application as users can find their journal entry easily without having to scroll through all their entries.

3. Testing

The team largely employed automated testing. The code coverage statistics can be viewed via this link:

<file:///Users/ishika.arora/Documents/University/Year%202/5CCS2SEG/Large%20Group%20Coursework/WHIONSLargeGroupProject/htmlcov/index.html>

One thing to note is that as the majority of the views for exporting pdfs and rtf's of journal entries are comprised of helper methods the code is not covered by unit tests. The views are tested as a conjunction of each other in `tasks.tests.views.test export journal_entry.py`.

A combination of automated testing and manual testing was used to test the voice dictation feature. The manual test we undertook is detailed below.

Test	Action	Expected result	Result
1	The voice dictation feature is tested. We tested this by clicking the icon and speaking.	We expected to see the words we were saying being written within the journal entry to a high level of accuracy.	Pass (20/02/24)

4. Things to Note Whilst Using Bloom

- **Email reminders will start to be sent to your account the day after you create an account and set reminder preferences.** This is because the email reminders are scheduled using Celery and in our settings.py file Celery is scheduled to run every day at 00:00. Only when it runs does it schedule the email for next day if one needs to be sent.
- **There may be a delay with JavaScript features.** This is because due to the capacity of Heroku, we have to use the static files, which can have a delay when loading causing a delay in the JavaScript.
- **The John Doe and Jane Doe accounts both already have 3 journal entries created.**