

## Final project (Group of 3 members)

Project proposal deadline:	11 July 2024 (Thu)	[[Week 11]]
Final project deadline:	25 July 2024 (Thu)	[[Week 14]]

## Requirements

### Frontend: HTML/CSS

- Responsive webpage, semantic use of HTML, CSS for design, JS for interaction
- Nicely design, with appropriate animation or interaction with users

### Backend

- Use PHP and MySQL
- Sanitize input string in the form to prevent malicious injection
- Save persistent data in MySQL database
- Include at least 1 GET or POST route, and it should include a message body
- Real or dummy data usage is OK, but it should be big and diverse enough to demonstrate.

### Misc

- The project should be a web app, even if a small web app
- The project should be relatively bug-free
- Points are deducting of something that supposed to show is missing, not trivial bugs in your codes
- HTTP methods should be used in ways that are compatible with the method definition. For example:
  - Use GET for retrieving data. Do not write data in a GET handler.
  - Use POST for saving data. Do not use POST to display a page.
    - Don't use query parameters with POST

### Style requirements

- For styling, the requirements are similar to your Midterm project
- No deprecated tags.
- Use descendent selectors to reduce redundancy in CSS and HTML
- You can use Bootstrap or other framework for decoration

### Submission

- Record the video of length **within 5 mins** to **explain your project + code** together.
- Be creative and fun!
- Video will be shown during the final presentation.

### Voting

Everyone will vote for the winners based on: aesthetic, code (well-written), fun, presentation.

## Project proposal preparation

Project proposal day: 11 July 2023 (THU)

### Decide on a project idea & sketch of the layout

Prepare a presentation that describe your project idea in PPT slide and present to your friends on the proposal day. It should include the project layout design, and how the app behaves. No coding is required at this stage. No code explanation is required.

The presentation should last **no longer than 3 minutes**.

The presentation doesn't have to be too long or descriptive, and it doesn't have to be a "pitch"; I just want to get a sense of what you want to make.

- If you are planning to make the Diary app, you can explain the idea similar to the example Diary app, and plus alpha your own idea to add some features to the app.
- Please prepare the mockup design of your web (not the real web yet).
- The easy way is to use Power Point to make the rough layout for your website. You can also use website that allow you to create web design mockup.
- Note that the chosen colors, fonts in your sketch can be changed in the final version, but it should not be too deviated from overall idea.

## Project ideas

You need to decide what web app you will build for the final project. Here are some suggested guidelines for you to follow when deciding what you want to build:

### **Small and simple.**

- Choose something very focused and simple for the subject of your final project.
- Remember that you have a limited time.
- Choose something that feels similar in size and difficulty to the product manager web app or diary web app.

### **Use previous In class Assignment as your litmus test for scope and difficulty.**

- For example, if it took you 20+ hours to finish some **In class Assignment**, then you probably want to make something simpler than that one. Remember that you need to include both frontend and backend on the final project.

### **If in doubt, build the Diary app project.**

- A Diary app project idea that fulfills the final project requirements is included in the next page
- The Diary app will not be graded any differently than any other final project.
- If you are having trouble coming up with an appropriate final project idea, build the Diary app.

## Diary app project idea

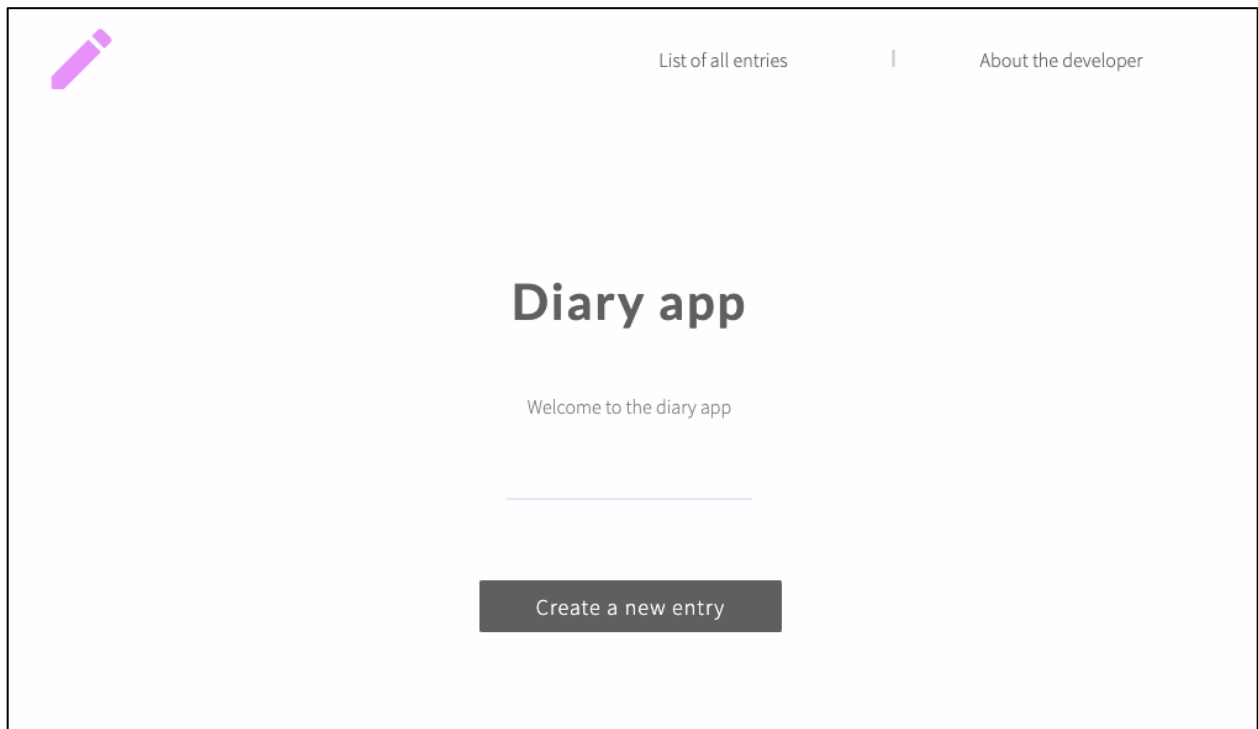
### Diary behavior

The Diary app is a web site that provides a way to make a simple, login-less journal. Every new journal has a unique URL that is viewable and editable by anyone with the link. If there is ambiguity in how the Diary app should behave, you can interpret in whatever way you choose.

The example below is created for mockup only. Please remember that you can employ the idea and modify the design or behavior of the app. Some necessary functions may be added. Just make sure you can finish the project by the deadline.

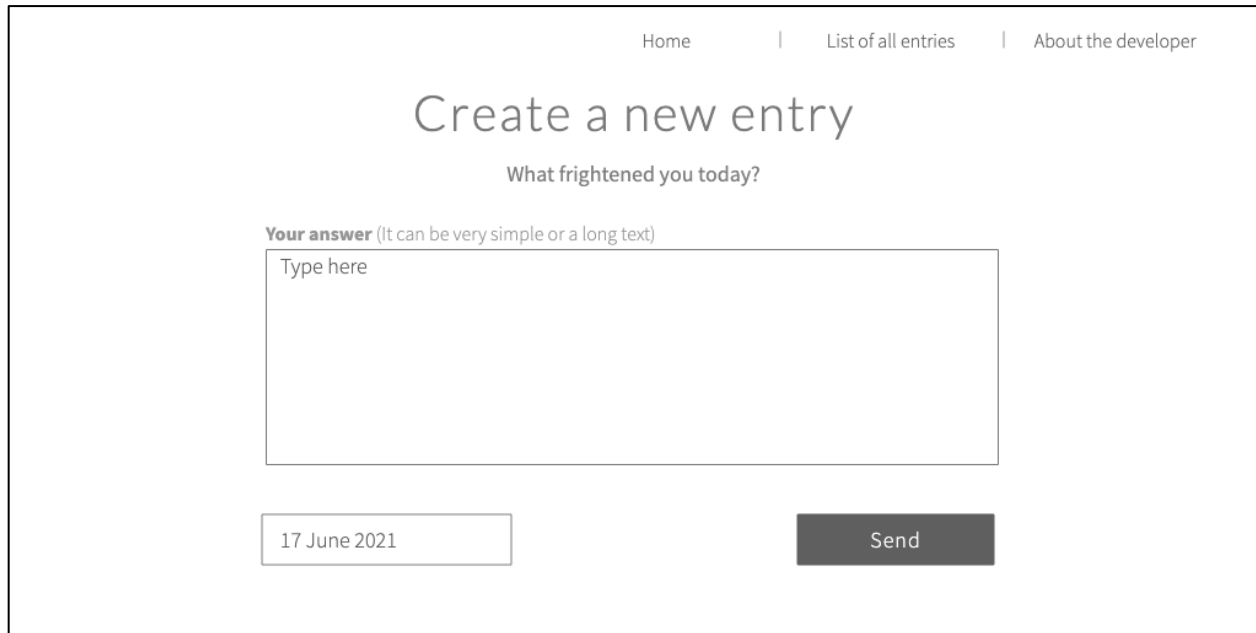
### Home Screen: Create a new entry

- When you go to the home page of your Diary app, you are presented with a button to create a new journal:
- Navigation bar can include the link to the page that allow you to see the list of all entries, and a static page about the developer
- Example of the design of the home screen



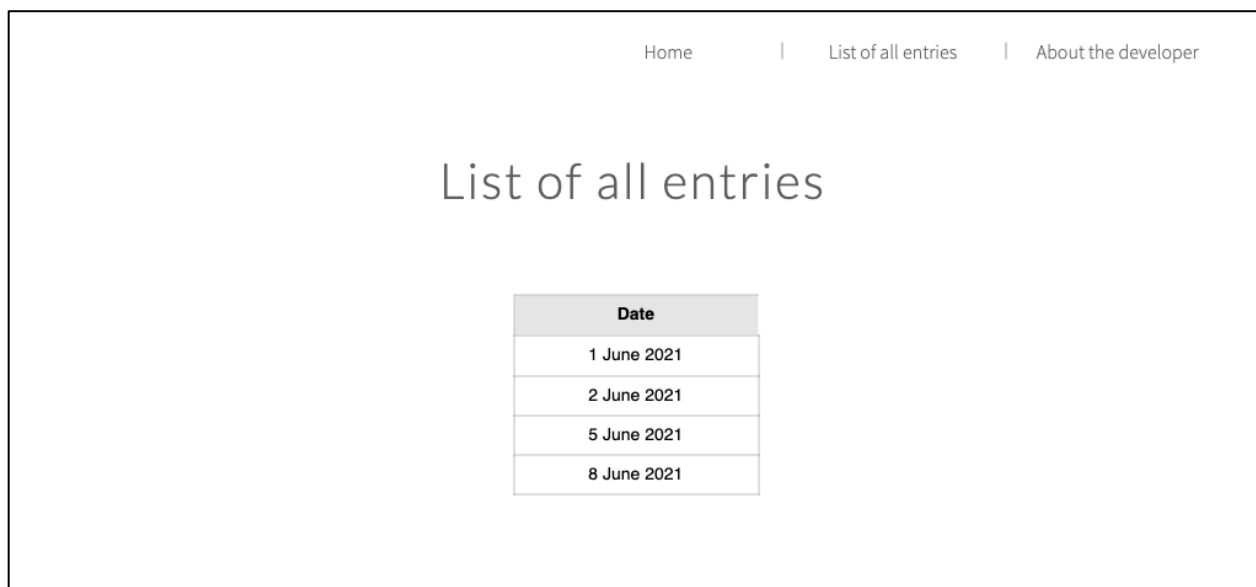
## When you press “Create a new entry”:

- Your app should create a new journal on the backend
- Today’s date is shown below the text area, as is a journaling prompt (random question that stimulate you to write something) for that day. In this case, it is “What frightened you today?”
- The journaling prompts should be pulled from a database, randomly.



The screenshot shows a web interface for creating a new journal entry. At the top, there is a navigation bar with links: Home, List of all entries, and About the developer. The main heading is "Create a new entry". Below it is a journaling prompt: "What frightened you today?". Under the prompt, there is a text area labeled "Your answer (It can be very simple or a long text)" with the placeholder text "Type here". At the bottom left, there is a date input field showing "17 June 2021". At the bottom right, there is a dark "Send" button.

- Example of List of all entries page



The screenshot shows a web interface for listing all journal entries. At the top, there is a navigation bar with links: Home, List of all entries, and About the developer. The main heading is "List of all entries". Below the heading, there is a table with a single column titled "Date". The table contains four rows of dates: 1 June 2021, 2 June 2021, 5 June 2021, and 8 June 2021.

Date
1 June 2021
2 June 2021
5 June 2021
8 June 2021

### When you click on a date:

- When you click the date, for example 8 June 2021, it take you to the content that you answered for that day.
- These data should be pulled from the MySQL database.

[Home](#) | [List of all entries](#) | [About the developer](#)

## 8 June 2021

Did you stop yourself from doing something you enjoy today? Why or why not?

Your answer

Yes, I planned to watch the new TV drama today but I couldn't.  
I was overwhelmed with homework and totally forgot about it.

- Example of daily journaling prompts are listed below
- Note: I took the list below from <https://grammar.yourdictionary.com/writing/52-simple-daily-journal-prompts.html>. You can use these, or come up with your own journaling prompts, or copy from other websites too.
  - What was the most peaceful moment during the day?
  - Describe something you learned today that you didn't know before.
  - Would you change any of the decisions you made today?
  - How were your meals today? Do you feel nourished?
  - What frightened you today?
  - Who do you wish you had talked to today? How do they improve your life?
  - Describe the moments of frustration you felt today. How would your day have changed if those moments were different?
  - If you'd had another hour during the day, how would you have spent it?
  - Did something (or someone) empower you today?
  - Did you stop yourself from doing something you enjoy today? Why or why not?

- Reflect on how your body feels. Where are you storing your stress? What put it there?
- Who helped you the most today? Who did you help the most?
- Describe your day from another person's perspective. Is it different from yours?