

02 Prove: PHP Project Proposal

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CS 313

Project description

This project is a child development tracking web application. It will allow the user to record their child's or children's various developmental milestones into a database. The web application will include reporting functionality, and can be displayed on the web application, and exported in a usable format. The primary target audience is parents who want to keep track of their children's developmental milestones. The web application will allow the user to record the event or milestone (first tooth, first word), the date of the milestone (February 26, 2019), the age of the child at the time of the milestone (2 years old), and some additional notes about the milestone ("Timmy says 'momma' every time wakes up.").

Design overview

The web application will allow the user to input data in form fields. These form fields will accept various types of data (dates, numbers, text). There will be some input validation required to make sure the data is valid. The user will be able to input data, or choose from a list of some pre-populated data. The data report will allow the user to sort.

Database

The form fields will accept various types of data (dates, numbers, text). They will include:

- First name (text): will be assigned, along with last name, a unique ID
- Last name (text): will be assigned, along with first name, a unique ID
- Event or Milestone (text): will be assigned a unique ID. The following will be associated to this unique ID:
 - Date (date): date of birth, date of event or milestone
 - Location (text)
 - Age (number): this will hopefully be calculated based on the date of the event compared to the date of birth
 - Notes (text): additional information about the event

Database Retrieval

Following is an example of the data/design that will be retrieved and presented to the user:

Emmett "Doc" Brown

| Event name | Date of event | Age | Location | Notes |
|-------------|-------------------|-----|-------------------------|---------------------------------------|
| Born | November 5, 1914 | 0 | Hill Valley, California | born with white hair |
| First words | December 28, 1915 | 1 | Hill Valley, California | "flux capacitor" |
| Concussion | November 5, 1955 | 41 | Hill Valley, California | hit head on toilet; a red-letter date |
| ... | ... | ... | ... | ... |

Database Update

The user will be able to add and update the following data:

Name of child, the event, the date of the event, the age of the child at the time of the event, the location of the event, and any additional notes about the event.

The user will be able to add/update the data using forms. Data validation will be applied to the data prior to saving. Just as the user will be able to add/update data, the user will also be able to delete data.