IBU International Burch University

CEN 308 SOFTWARE ENGINEERING

PROJECT DOCUMENTATION

To-Do List

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Contents

1. Introduction

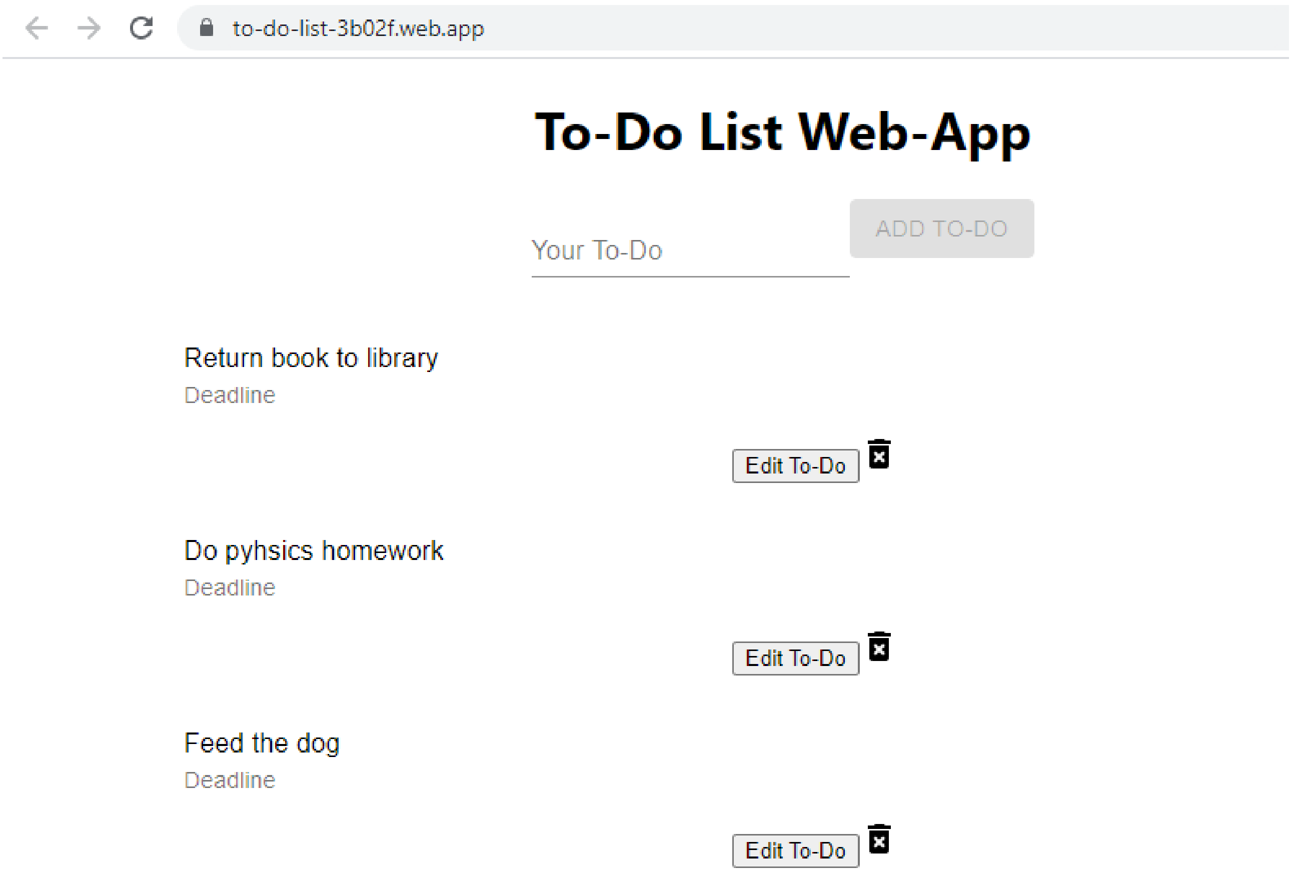
1.1. About the Project

For our project we decided to develop a To-Do List application. A user visits the page and has the ability to add items to “The List”, but also to remove items and update them.

The project is hosted on Firebase and can be found on this link: https://to-do-list-3b02f.web.app/

1.2. Project Functionalities and Screenshots

The main features of the application are: creating, getting, updating and deleting To-Do’s.



to-do-list-3b02f.web.app

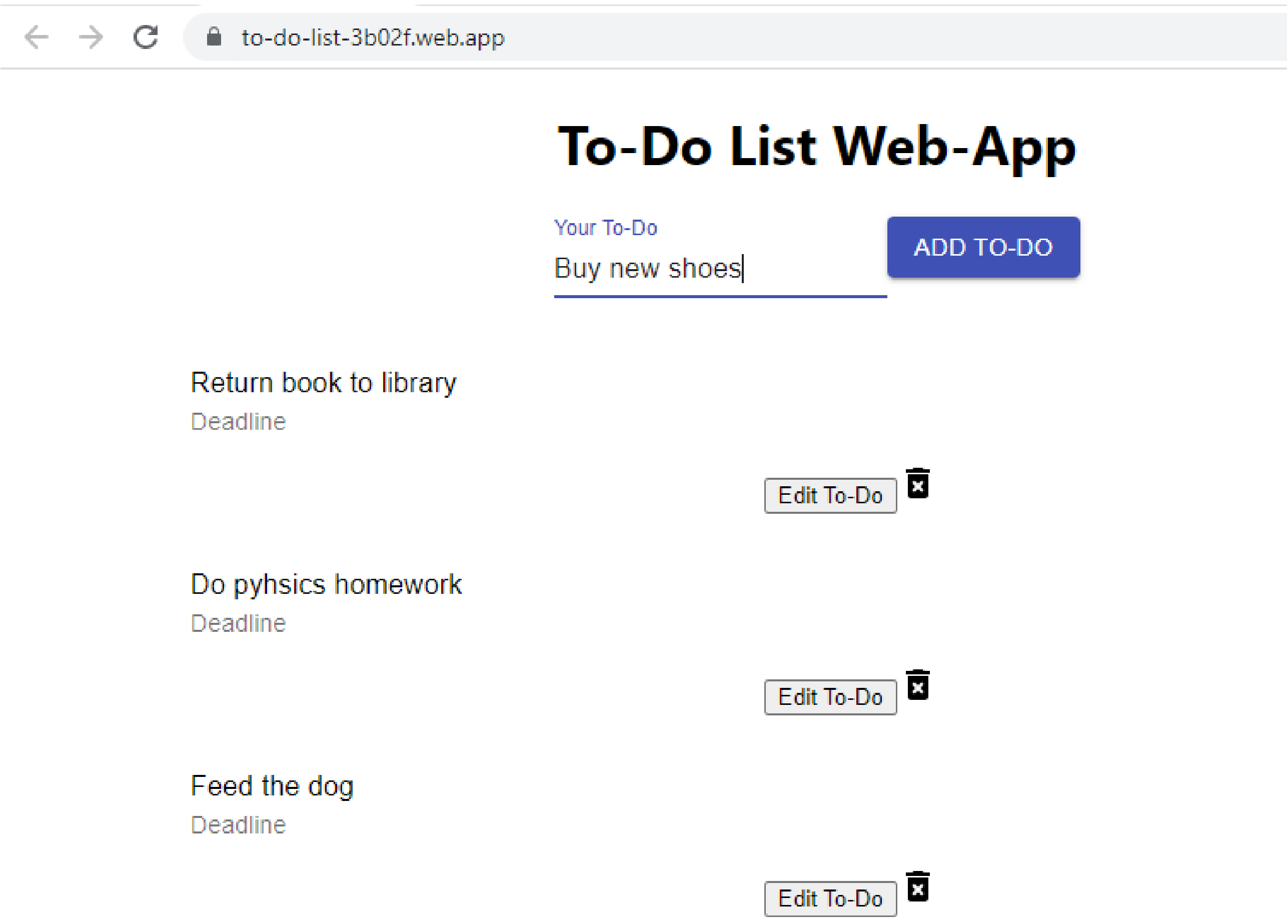
To-Do List Web-App

Your To-Do

Return book to library
Deadline

Do pyhsics homework
Deadline

Feed the dog
Deadline



To-Do List Web-App

Your To-Do: Buy new shoes

Return book to library

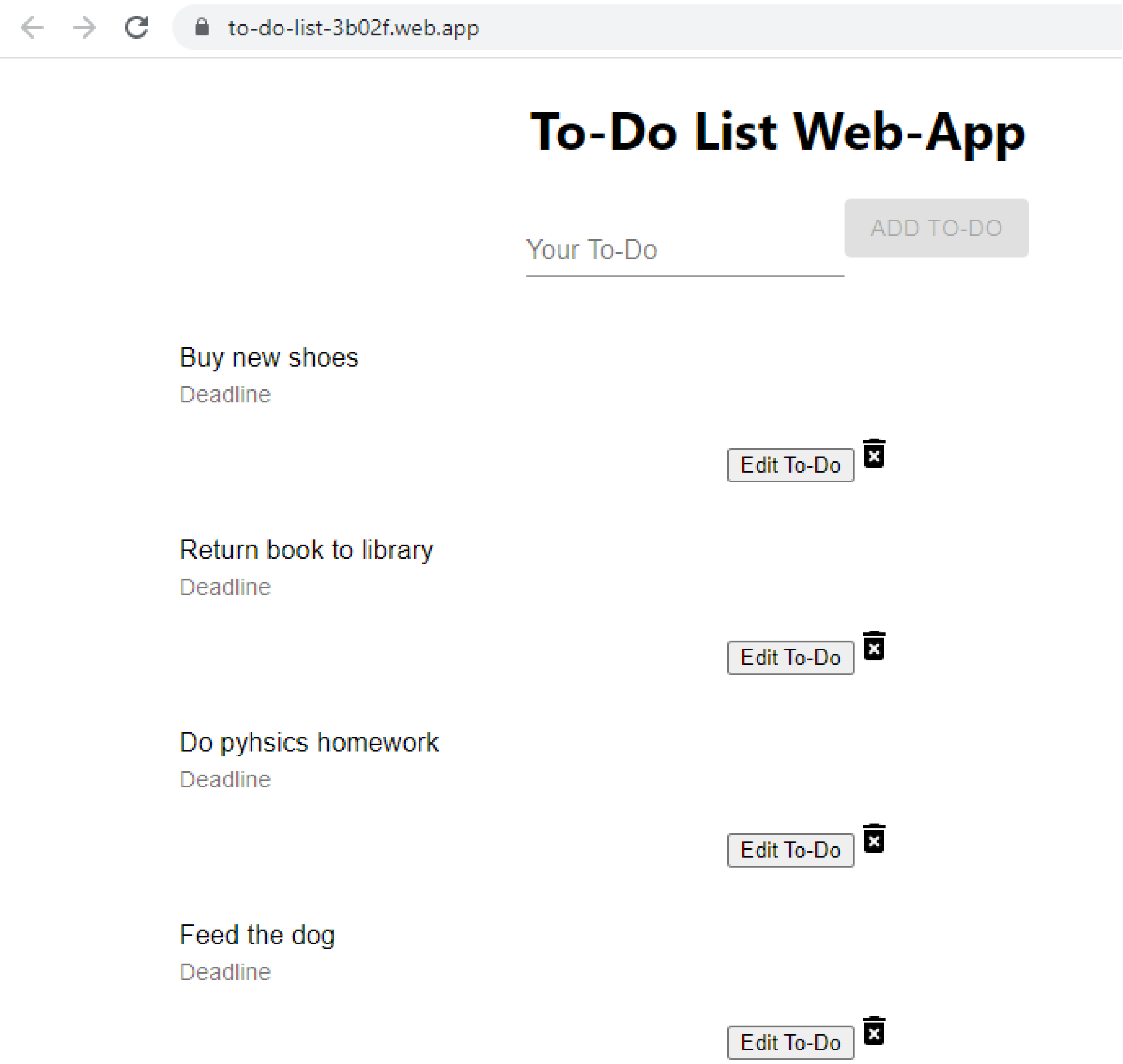
Deadline

Do pyhsics homework

Deadline

Feed the dog

Deadline



To-Do List Web-App

Buy new shoes

Deadline

Return book to library

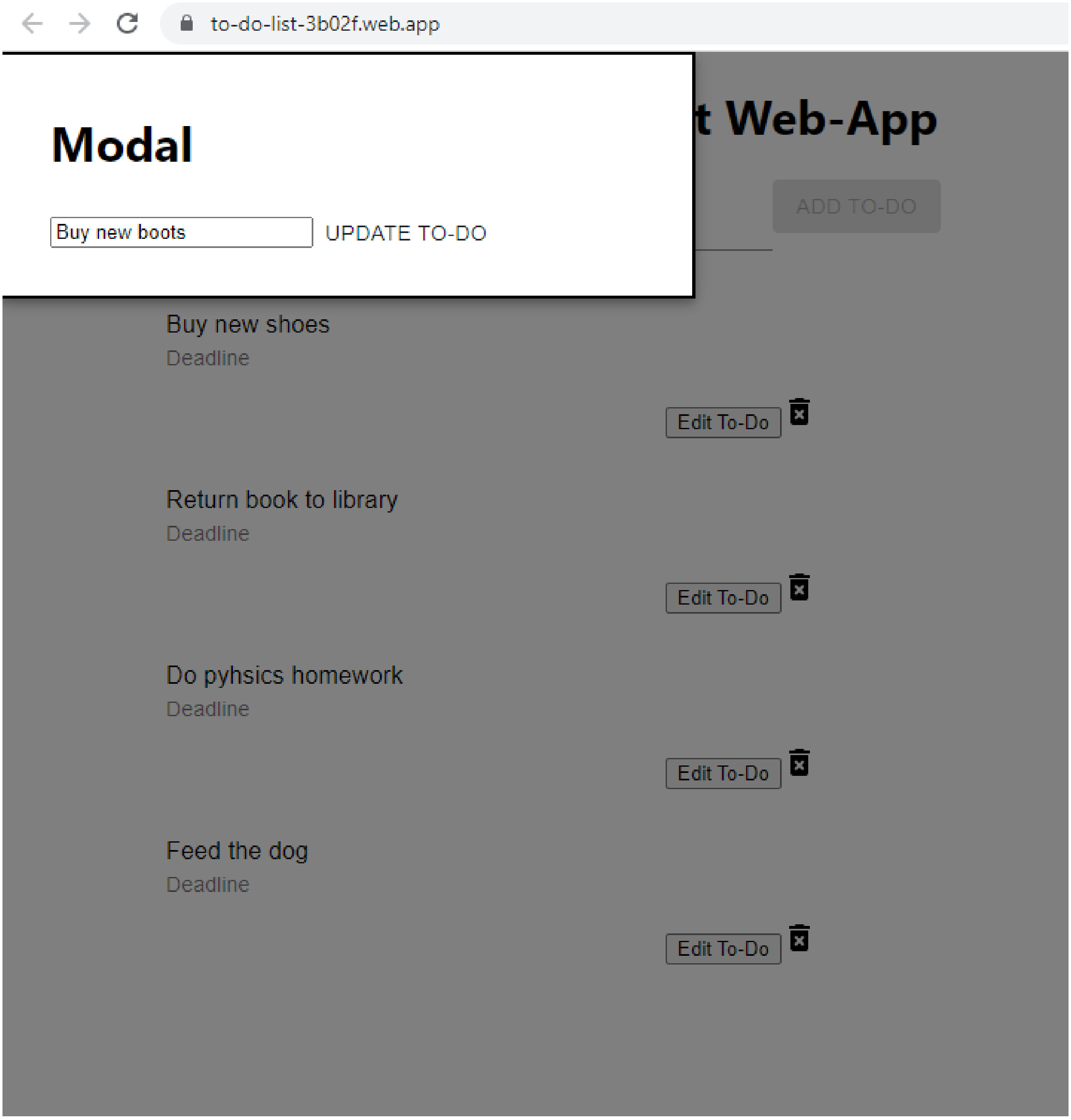
Deadline

Do pyhsics homework

Deadline

Feed the dog

Deadline



to-do-list-3b02f.web.app

Modal

Buy new boots

UPDATE TO-DO

t Web-App

ADD TO-DO

Buy new shoes

Deadline

Edit To-Do

Return book to library

Deadline

Edit To-Do

Do pyhsics homework

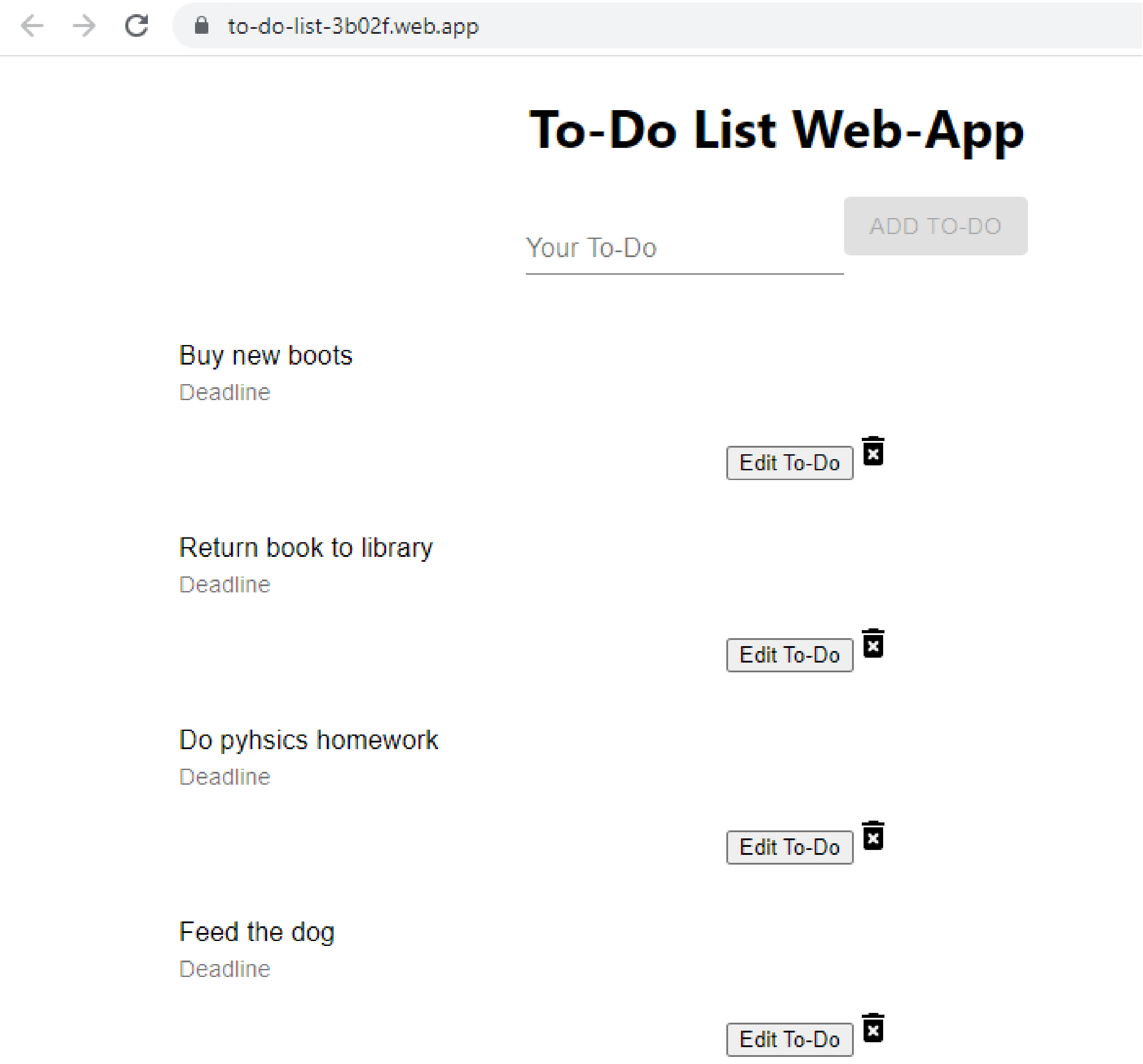
Deadline

Edit To-Do

Feed the dog

Deadline

Edit To-Do



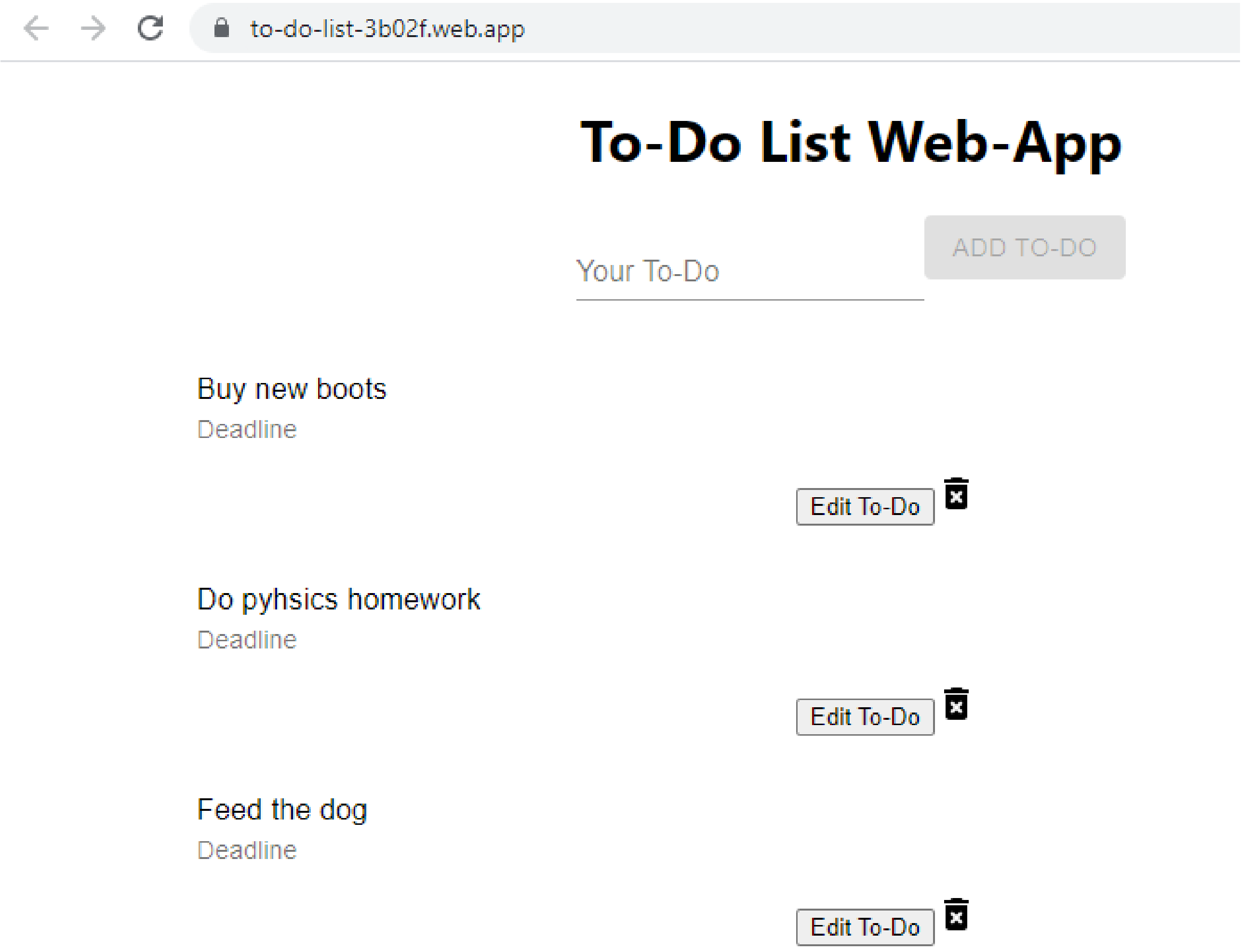
To-Do List Web-App

Buy new boots
Deadline

Return book to library
Deadline

Do pyhsics homework
Deadline

Feed the dog
Deadline



To-Do List Web-App

Your To-Do

ADD TO-DO

Buy new boots

Deadline

Edit To-Do

Do pyhsics homework

Deadline

Edit To-Do

Feed the dog

Deadline

Edit To-Do

2. Project Structure

2.1. Technologies

We used Firebase for our backend and database. We thought that it would be cool to use their database since it's a real-time database and it was incredibly easy to set it up. Our app is also live and hosted on Firebase at https://to-do-list-3b02f.web.app/ . We have one table, or should I say collection, since Firebase works with collections and not tables.

Regarding the frontend, we used React. We have just started working with React and Firebase, so it was a little bit challenging. Also, we used Material-UI for some help with the design. Although the app does not have too many features, it is still responsive.

Besides following basic coding standards and guidelines, we also followed React coding standards on the frontend. For example, React UI component's names should be PascalCase, while all other helper files (non-component files) should be camelCase.

2.2. Database Entities

As we said, we have one table/collection, which is named ‘todos’ and it’s fields should have the following attributes: timestamp (stores the server time the to-do was added) and todo (stores the text of the to-do).

2.3. Patterns

Unfortunately, we did not manage to implement any architectural or design patterns in out project

3. Conclusion

We think the app looks and feels nice and serves its purpose, but there definitely is room for improvement and we have ideas on what could be improved. For example, having users register an account so all to-do’s are assigned to their specific users, etc.

We struggled with finding a way to implement the design and architectural patterns, but we believe we will be able to implement them in future projects.