Final Report

(ToDo Cake) To Do app

IntroductionSummary

App that allows users to sign up for an account and store To Do items to their account, mark to do

items as complete and show or hide completed items.

Features

- · Users can create register and login
- · Users can write to do items
- · Every user can edit, delete or mark items as complete item
- To-Do items can be searched and ordered

2. Design and Implementation

System Design

Very simple data model

Based on two entities: user and todos

A user have 1 todo list

A todo has some items:

- An unique ID
- A creation date

The data is stored in a MongoJS database.



Implementation

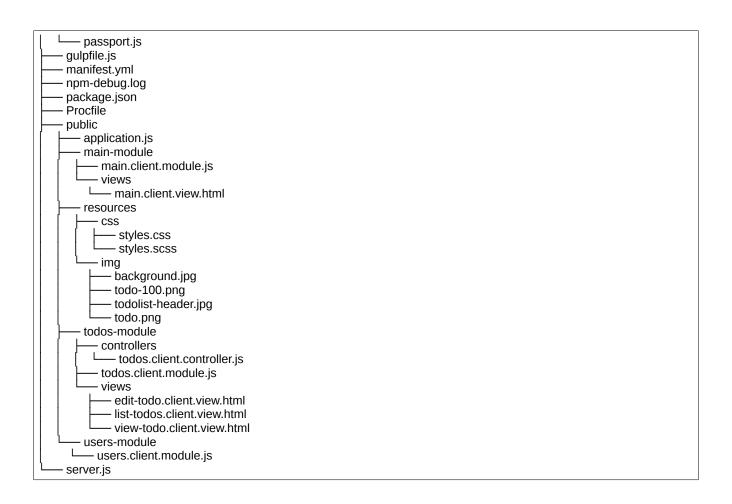
Summary On the frontend, a custom Angular.js factory service allows the Todo controller to make AJAX CRUD requests to the app's API endpoints. The app uses Angular's \$routeProvider to serve partial html views according to defined URL routes, and ngRepeat is used to render To Do items. ngShow provides a simple method of conditionally showing/hiding UI elements depending on whether there are To Dos and completed To Do items.

A normalized data structure with two separate MongoDB collections are used to store User accounts (with password hashing) and Todo items. Each To Do document stores a reference to the User ID that the To Do item belongs to. A MongoDB search on the Todo collection, by user ID, ensures that each user only sees To Dos they own.

Passport.js is used to authenticate users and create a session which is stored as a cookie, and Passport attaches req.userwhen a user is logged into a session. req.user is attached to the window object as window.user to allow Angular.js to conditionally show/hide elements, like a Logout link, if the user is logged in.

API endpoints that require user authentication are also protected using a custom middleware that uses Passport's req.isAuthenticated() to either return next(), or returns a status code of 401.

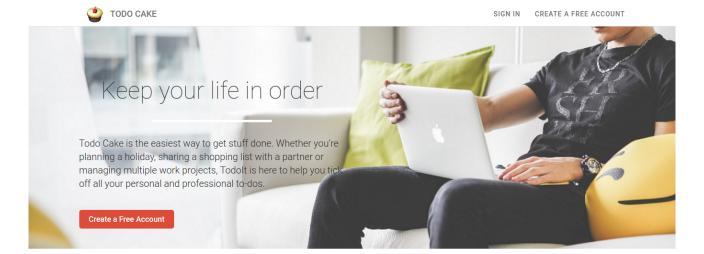




Built With the Following Libraries/Tools:

- Node.js (Express)
- Angular.js
- MongoDB (Mongoose)
- Passport.js
- Bootstrap 3
- Sass
- EJS Templating Engine
- Gulp
- Postman

Screenshots



About Todo Cake

Todo Cake is an application for managing your TODOs built on top of the MEAN stack.



Todo Cake

ToDolt is a full-stack MEAN app that allows users to sign up for an account and store To Do items to their account.



Coursera

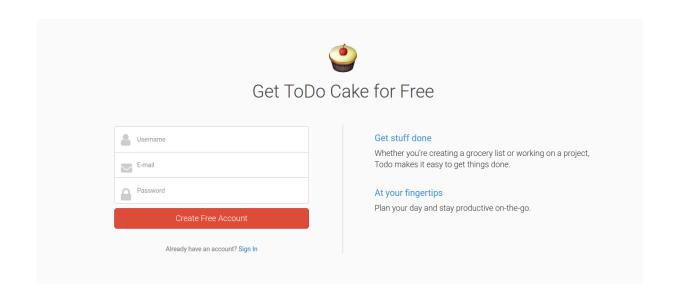
This project is an academic work. It's my final capstone project for the Full Stack Web Development course on Coursera. Read more at: Coursera

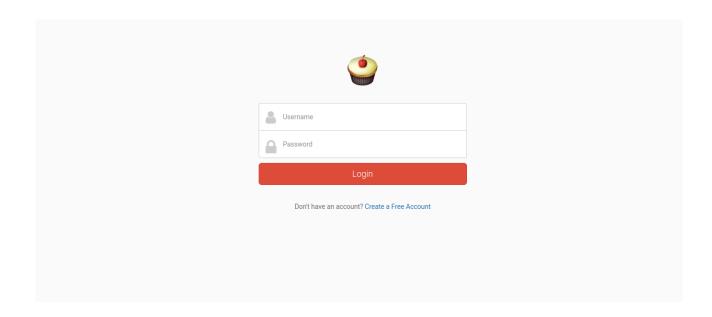


GitHub

You can find the project on GitHub. It includes all source code as well as the documentation for Coursera.

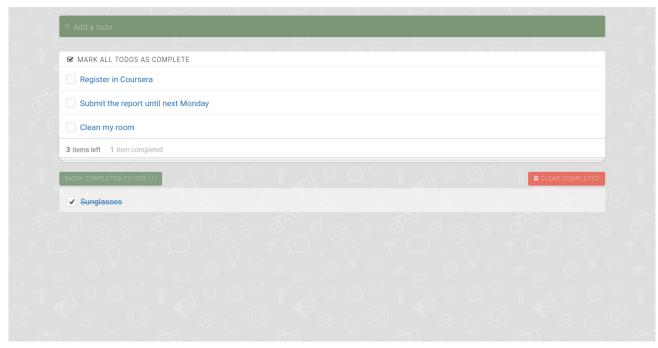
© Copyright TODO CAKE. All rights reserved.

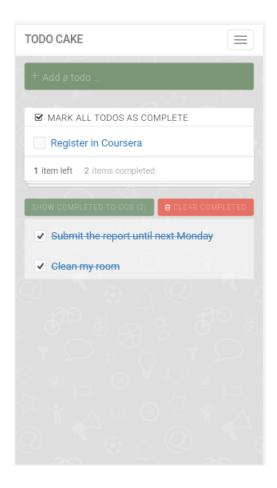




TODO CAKE Q Search Your Todos

HELLO MOHAMED_ZEZO +





3. Conclusions

- I was able to implement the main features of the project. Users can create register and login
- Users can write to do items
- Every user can edit, delete or mark items as complete item
- To-Do items can be searched and ordered
- The deployment on IBM Bluemix was smooth and went well overall.

4. Reference

Tool used to draw Package Structure

• http://www.computerhope.com/unix/tree.htm

UI

• http://todomvc.com