

Project Description

This project is about creating a web application from front to back that incorporates a complete web server, a responsive user interface, RESTful APIs, and create, read, update, delete (CRUD) operations against a cloud-hosted database.

Technologies Utilized

- Visual Studio Code (integrated development environment)
- Sketch (visual design and prototyping)
- GitHub (source code repository)
- Heroku (application hosting platform)
- mLab (MongoDB database as a service)
- Terminal (Mac OS command line)
- Homebrew (Mac OS package manager)
- Node.js (JavaScript runtime)
- Node Package Manager (npm) (external libraries, frameworks)
- Express (web application framework)
- React (JavaScript library)
- MongoDB (JSON-like document database)
- Mongoose (Node.js object data modeling)
- HTML5 (markup)
- Cascading Style Sheets (CSS) (markup styling)
- JavaScript (as a 'full stack' language)
- Postman (API testing)

What problem does your app focus on?

The problem this app focuses on is a question every single person must answer. **Have you paid your bills?**

Each person has their own unique set of bills to pay. Every day, each of must determine where we are with respect to paying these bills. In my case, I have numerous recurring bills where the amount generally does not vary over time and where the due date is on a fixed, recurring schedule. For me, I just need a way to consolidate them so that I can more easily keep track of each bill's payment status at any given time.

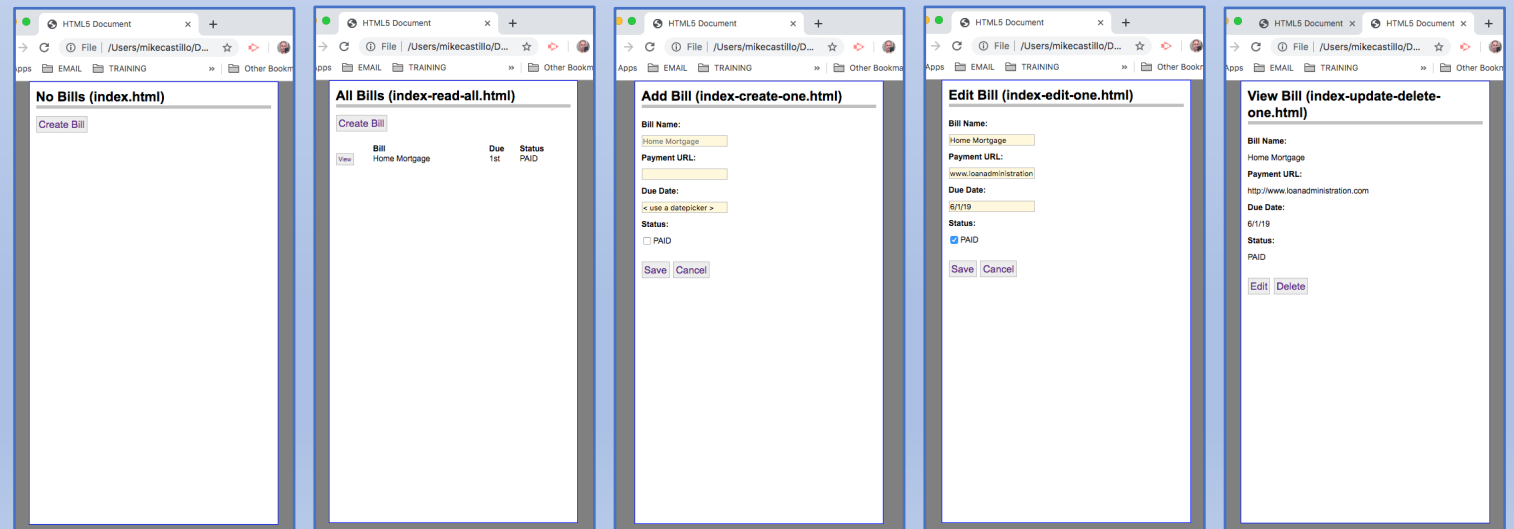
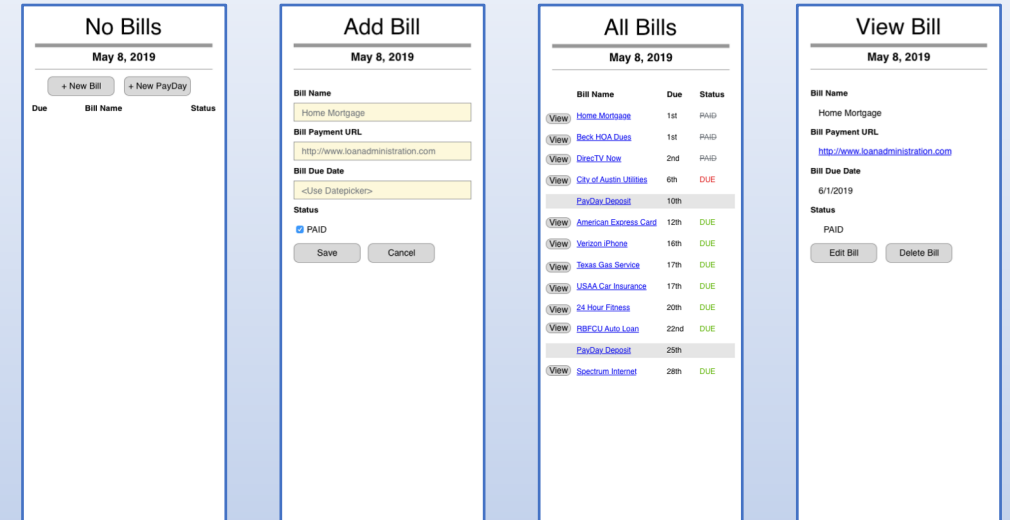
How does your app solve this problem?

This app strives to solve this problem by providing users a way to easily create and manage as many bills entries as desired in a single, consolidated, easy to access location. Each bill stores the essential information required for paying the bill (online) and for checking the status, at a glance.

The web application can be accessed from any internet-connected personal computer or mobile device, making it accessible from virtually anywhere there cellular signal or Wi-Fi hotspot present.

What steps did you take to build the app?

- Paper sketches
- Wireframe documents using Sketch application
- Static web page mock-ups (HTML, CSS)
- Numerous online tutorials (web blogs and YouTube videos)
- Tutorial example starter code
- Ongoing code publishing to GitHub
- Final deployment to Heroku



Live Demo

Deployment Address

<https://bills-mern-app.herokuapp.com/>

GitHub Address

<https://github.com/michaeldcastillo/bills-mern-app>