

Bookmarks

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Exercise

You are going to setup a server that will serve up your favorite bookmarks in JSON.

Steps

Setup

- Create a new project/folder for this exercise and name it Bookmarks.
- Navigate to that folder in terminal and type `npm init` to generate a new `package.json` file.
- Install express in this new project by calling `npm install express --save`. Check express is installed in your `node_modules/` subdirectory.
- Create a new file called `index.js` and setup a simple express app:

```
const express = require("express");

const app = express();
const port = process.env.PORT || 8080; // default port
8080

app.get("/", (req, res) => {
  res.end("Hello iOS Developers!");
});

app.listen(port, () => {
  console.log(`Example app listening on port ${port}!`);
});
```

- Add a start script to your package.json so you can run this file by calling npm start:

```
"scripts": {
  "start": "node index.js",
```

- Call npm start and navigate to localhost:8080 in your browser. You should see "Hello iOS Developers!" printed in your browser.
- git commit your work so far.

Add your bookmarks

- Create a new javascript object to hold some of your favorite bookmarks. Here's an example of Sam's:

```
const bookmarks = {
  compass: "http://ios-compass.lighthouse labs.ca/setup",
  swift:
    "https://developer.apple.com/library/content/documentation/
    n/Swift/Conceptual/Swift_Programming_Language/TheBasi
```

cs.html#//apple_ref/doc/uid/TP40014097-CH5-ID309"

```
};
```

- Create a new route at the endpoint `/bookmarks` and have that endpoint serve your bookmarks to the user as JSON:

```
app.get('/bookmarks', (req, res) => {  
  res.json(bookmarks);  
});
```

- Run `npm start` again to start up your node app and navigate to `http://localhost:8080/bookmarks` in your browser.
- `git commit` your work.
- Create a new repo on github and push your work, we're going to use github to upload our app to heroku.

Upload to heroku

- Navigate to Heroku.com in your browser and make sure you're logged in.
- Click on Create new app, give it a name if you want, select United States as the location, and select Create App.
- In the Deployment method section, choose github and login to your github account if you haven't already.
- Select the repo that you just pushed your app to.
- Scroll to the bottom of the page and click on deploy branch. Make sure the branch you commit your code to is selected, probably master.
- Once your app has been deployed, click on the view button. This will take you to a url like `https://your-app-name.herokuapp.com/` and you should see "Hello iOS Developers!" printed in your browser again.

- Now go to the /bookmarks endpoint.
- Congratulations! You just created an API that is available to anyone on the internet.

Add more features to your app

- Create a new route at that a user can use to request an individual bookmark. For example, if I go to `https://your-app-name.herokuapp.com/bookmark/compass`, then the browser should display `"http://ios-compass.lighthouse labs.ca/setup"`.

Here is some code to help get you started:

```
app.get('/bookmark/:bookmarkKey', (req, res) => {  
  const bookmarkKey = req.params.bookmarkKey;  
  console.log(bookmarkKey);  
  ...  
});
```