Steps to build shopping-list project:

1. create new project

Yans-MacBook-Air:/ Yan$ cd ~/Google\ Drive/Web\ Development\ Learning/Projects/Angular\ Shoppiing\ list\ Recipe\ list

Yans-MacBook-Air:Angular Shoppiing list Recipe list Yan$ ng new shopping-list

cd shopping-list

Yans-MacBook-Air:shopping-list Yan$ npm install --save bootstrap

2. In .angular-cli.json file, add bootstrap css

"styles": [  
 "../node\_modules/bootstrap/dist/css/bootstrap.min.css",  
 "styles.css"  
]

3. Yans-MacBook-Air:shopping-list Yan$ ng serve

4. Adding an existing project to GitHub using the command line

<https://help.github.com/articles/adding-an-existing-project-to-github-using-the-command-line/>

5. commit updates to Github

Yans-MacBook-Air:shopping-list Yan$ git add .

Yans-MacBook-Air:shopping-list Yan$ git commit -m "try to commit with command line to Github"

Yans-MacBook-Air:shopping-list Yan$ git push origin master

6. Create component

manually create the files

using Angular cli command:

“ng g component shopping-list”

or “ng g c recipes --spec false” (prevent creating spec.ts file)

or “ng g c recipes/recipe-list/recipe-item --spec false” (create inside the recipes/recipe-list folder)

7. AoT (ahead of time) compilation with CLI

ng build –prod –aot

ng serve --prod --aot

8.Use firebase for data storage

<https://firebase.google.com/>

GO TO CONSOLE

Add project: Create a project

Database => Rules: read & write set to true if there’s no authentication

In code,

**return this**.http.put('https://ngstock-rock.firebaseio.com/stocks.json/', **this**.stockService.getStocks());

9. use firebase for authentication

npm install --save firebase

in app.component.ts

ngOnInit() {  
 firebase.initializeApp({  
 apiKey: "AIzaSyAHPQ0KaOJITbKEcTWqQWeM0KF3gYRRJ7o",  
 authDomain: "ng-recipe-book-37893.firebaseapp.com",  
 })

**return this**.http.put('https://ngstock-rock.firebaseio.com/stocks.json?auth=' +token, **this**.stockService.getStocks());

firebase site => Authentication => WEB SETUP, copy

apiKey: "AIzaSyAzujwNNGXQdWALsR98farye3RslDTkImU",  
    authDomain: "ngstock-rock.firebaseapp.com",

10. Deploy the app in AWS

aws.amazon.com => Amazon S3 =>

Create bucket, give a unique name,

In properties => enable website hosting

Index Document: index.html, Error Document: index.html. Because route is in Angular, not server, so redirect may cause 404 not found error.

Update policy to Granting Read-Only Permission to an Anonymous User, copy paste the sample policy name and use your own bucket name.

Quit ng serve, build the app using ‘ng build --prod --aot’. To change the base href, use ‘ng build --prod –aot –base-href /my-app’