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CREATING FOODBOX PROJECT SOURCE CODE

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Backend

MavenWrapperDownloader.java

```java
import java.net.*;import
java.io.*;
import java.nio.channels.*; import
java.util.Properties;

public class MavenWrapperDownloader {

    private static final String WRAPPER_VERSION ="0.5.6";
    private static final String DEFAULT_DOWNLOAD_URL =
"https://repo.maven.apache.org/maven2/io/takari/maven-wrapper/"
        + WRAPPER_VERSION + "/maven-wrapper-" +
WRAPPER_VERSION + ".jar";
    private static final String
MAVEN_WRAPPER_PROPERTIES_PA
TH =
            ".mvn/wrapper/maven-wrapper.properties";

    private static final String MAVEN_WRAPPER_JAR_PATH =
            ".mvn/wrapper/maven-wrapper.jar";
    private static final String
PROPERTY_NAME_WRAPPER_URL =
"wrapperUrl";

    public static void main(String args[]) { System.out.println("-
        Downloader started");File baseDirectory = new
        File(args[0]);
```

```java
            System.out.println("- Using base directory: " +
baseDirectory.getAbsolutePath());
      File mavenWrapperPropertyFile = new File(baseDirectory,
      MAVEN_WRAPPER_PROPERTIES_PATH);String url =
                  DEFAULT_DOWNLOAD_URL;
          if(mavenWrapperPropertyFile.exists()) {
                FileInputStream
mavenWrapperPropertyFileInputStream = null;
                try   { mavenWrapperPropertyFileInputStream =
new FileInputStream(mavenWrapperPropertyFile);
                      Properties mavenWrapperProperties = new
Properties();

mavenWrapperProperties.load(mavenWrapperPropertyFileInputStream);
                      url =
mavenWrapperProperties.getProperty(PROPERTY_NAME_WRAPPER
_URL, url);
                } catch (IOException e) { System.out.println("- ERROR
                    loading '" +
  MAVEN_WRAPPER_PROPERTIES_PATH +
                      "'");
                } finally {
                      try {

if(mavenWrapperPropertyFileInputStream != null) {

      mavenWrapperPropertyFileInputStream.close();
                            }
                      } catch (IOException e) {
                                  }
```

```java
            }
            System.out.println("- Downloading from: " +
url);
            File outputFile = new
File(baseDirectory.getAbsolutePath(),
MAVEN_WRAPPER_JAR_PATH);
            if(!outputFile.getParentFile().exists()) {
                if(!outputFile.getParentFile().mkdirs()) {
                    System.out.println(
                            "- ERROR creating output
directory '" + outputFile.getParentFile().getAbsolutePath() + "'");
                }
            }
            System.out.println("- Downloading to: " +
outputFile.getAbsolutePath());
            try {
                downloadFileFromURL(url, outputFile);
                System.out.println("Done"); System.exit(0);
            } catch (Throwable e) {
                System.out.println("- Error downloading");
                e.printStackTrace();
                System.exit(1);
            }
        }
    private static void downloadFileFromURL(StringurlString,
File destination) throws Exception {
            if (System.getenv("MVNW_USERNAME") != null &&
System.getenv("MVNW_PASSWORD") != null) {
```

```java
            String username =
System.getenv("MVNW_USERNAME");
            char[] password =
System.getenv("MVNW_PASSWORD").toCharArray();
            Authenticator.setDefault(new Authenticator()
{
                @Override
                protected PasswordAuthentication
getPasswordAuthentication() {
                    return new
PasswordAuthentication(username, password);
                }
            });
        }
        URL website = new URL(urlString);
        ReadableByteChannel rbc;
        rbc = Channels.newChannel(website.openStream());
        FileOutputStream fos = new
FileOutputStream(destination);
        fos.getChannel().transferFrom(rbc, 0,
Long.MAX_VALUE);
        fos.close();
        rbc.close();
    }
}
```

----

maven-wrapper.properties

```
distributionUrl=https://repo.maven.apache.org/maven2/org
/apache/maven/apache-maven/3.8.2/apache-maven-3.8.2-
bin.zip
```

```
wrapperUrl=https://repo.maven.apache.org/maven2/io/takar
i/maven-wrapper/0.5.6/maven-wrapper-0.5.6.jar
```

Foodbox.sql

```sql
SET SQL_MODE =
"NO_AUTO_VALUE_ON_ZERO";START
TRANSACTION;
SET time_zone = "+00:00";
CREATE TABLE `address` (
    `id` int(11) NOT NULL,
    `street` varchar(55) NOT NULL,
    `city` varchar(55) NOT NULL,
    `zipCode` varchar(55) NOT NULL,
    `user_id` int(55) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
CREATE TABLE `cuisine` (
    `id` bigint(11) NOT NULL,
    `cuisine_name` varchar(411) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
INSERT INTO `cuisine` (`id`, `cuisine_name`) VALUES(1, 'Arab'),
(2, 'Chinese'),
(3, 'Persian'),
(4, 'Indian'),
(5, 'Italian');
CREATE TABLE `product` (
    `id` bigint(11) NOT NULL,
    `name` varchar(111) NOT NULL,
```

```sql
    `description` varchar(1000) DEFAULT NULL,
    `price` decimal(55,0) DEFAULT NULL,
    `image_url` varchar(500) DEFAULT NULL,
    `date_created` datetime(6) DEFAULT NULL,
    `last_updated` datetime(6) DEFAULT NULL,
    `cuisine_id` bigint(11) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
INSERT INTO `product` (`id`, `name`, `description`,
`price`, `image_url`, `date_created`, `last_updated`,
`cuisine_id`) VALUES
(1, 'Hummus', 'There's a lot of controversy as to where hummus is really
from. Is it Israeli, Greek or Arabic? Although the answer is not clear, there's
no doubt that this is a staple dish in Arabic cuisine, making hummus amust-
try for anyone looking to get better acquainted with the food from this
region. This simple dish is madeof chickpeas, tahini, garlic and lemon – and
is simply delicious. It's best to order hummus to share and eat itwith pita
bread, it makes for an amazing appetizer!', '20',
'https://img.theculturetrip.com/1440x/smart/wp-
content/uploads/2017/07/hummus-1058001_1920.jpg', '2021-
09-15 23:17:00.000000', '2021-09-13 23:17:03.000000',
1),
(2, 'Fattoush', 'This delicious bread salad is traditional to the Levantine
cuisine, common in Arabic countries such as Lebanon and Syria. Fattoush is
made with mixed greens and small pieces of fried Arabic bread, giving some
crunchiness. It often also includes pomegranate. This is again known as a
great salad to share with others, making the dining experience a way of
bringing people together and bonding over the mouth-
```

watering cuisine.', '23',
'https://img.theculturetrip.com/1440x807/smart/wp-content/uploads/2017/07/starter-1872862_1920-e1501253889682.jpg', '2021-07-15 23:17:00.000000',
'2021-09-06 08:52:35.000000', 1),
(4, 'Manakeesh', 'The pizza of the Arabic world, manakeesh is a round bread sprinkled with either cheese,ground meat or herbs (zaatar). It\'s ideal for breakfastor lunch. Varieties come from both fancy Levantine restaurants or street vendors.', '33',
'https://dynaimage.cdn.cnn.com/cnn/q_auto,w_602,c_fill,g_auto,h_339,ar_16:9/http%3A%2F%2Fcdn.cnn.com%2Fcnnnext%2Fdam%2Fassets%2F170209174500-manakeesh.jpg', '2021-07-15 23:17:00.000000', '2021-07-13 23:17:03.000000', 1),
(5, 'Moutabal', 'Just when you\'re ready to declare hummus the best dip on the planet, you find moutabal. Similar to baba ghanoush, the dip offers a similar consistency with an eggplant kick. Spiced up with chili,it delivers a zing.', '12', 'https://dynaimage.cdn.cnn.com/cnn/q_auto,w_602,c_fill,g_auto,h_339,ar_16:9/http%3A%2F%2Fcdn.cnn.com%2Fcnnnext%2Fdam%2Fassets%2F170209172813-baba-ganoush.jpg', '2021-07-15 23:17:00.000000', '2021-07-15 23:17:00.000000',
1),
(6, 'Umm ali', 'Egyptian bread pudding, or umm ali, is ahearty pastry cooked in milk and cream. Versions are made with croissant pieces, raisins, pistachios, vanillaand condensed milk.', '12',
'https://dynaimage.cdn.cnn.com/cnn/q_auto,w_602,c_fill,g_auto,h_339,ar_16:9/http%3A%2F%2Fcdn.cnn.com%2Fcnnnext%2F

Fdam%2Fassets%2F170209174450-umm-ali.jpg', '2021-01-19
23:24:19.000000', '2021-05-19 23:24:19.000000', 1),
(7, 'Shanklish', 'This cow or sheep milk cheese is usually fashioned into gol
ball-sized bites and rolled in zaatar herbs or chili flakes (the latter version
favored in Syria). Also often enjoyed with diced tomato,onion and olive oil
'31', 'https://dynaimage.cdn.cnn.com/cnn/q_auto,w_602,c_fill,g
_auto,h_339,ar_16:9/http%3A%2F%2Fcdn.cnn.com%2Fcnnnext%2
Fdam%2Fassets%2F170209174456-shanklish.jpg', '2020-05-19
23:24:19.000000', '2021-05-19 23:24:19.000000', 1),
(8, 'Shish tawook', 'Served with pure garlic paste, thissimple skewered
chicken dish is hugely popular in Lebanon, Syria, Egypt, Iraq and the Gulf
region. Dishes are served with fries and pita bread.', '44',
'https://dynaimage.cdn.cnn.com/cnn/q_auto,w_602,c_fill,g
_auto,h_339,ar_16:9/http%3A%2F%2Fcdn.cnn.com%2Fcnnnext%2
Fdam%2Fassets%2F170209174452-shish-tawook.jpg', '2021-
03-14 23:24:19.000000', '2021-05-19 23:24:19.000000',
1),
(9, 'Dolma', 'Dolma goes horribly wrong when the stuffedvine leaves
become flaccid and slimy after being left out in the sun for too long. They
need to be fresh with succulent lamb or juicy vegetables.', '31',
'https://dynaimage.cdn.cnn.com/cnn/q_auto,w_602,c_fill,g
_auto,h_339,ar_16:9/http%3A%2F%2Fcdn.cnn.com%2Fcnnnext%2
Fdam%2Fassets%2F170209172805-dolma.jpg', '2021-08-19
23:24:19.000000', '2021-05-19 23:24:19.000000', 1),
(10, 'Kofta', 'Common in Iran and Pakistan, these ballsof minced lamb o
beef have a spicy, onion kick.\r\nYoucan fry, grill, barbecue or bake the
patties, but

they\'re best served with a distinctive spicy sauce. In the Arab region, you\'ll find them in cylinder shapes, often on a stick.', '41', 'https://dynaimage.cdn.cnn.com/cnn/q_auto,w_602,c_fill,g_auto,h_339,ar_16:9/http%3A%2F%2Fcdn.cnn.com%2Fcnnnext%2Fdam%2Fassets%2F170209172746-kofta.jpg', '2021-11-19 23:24:19.000000', '2021-05-19 23:24:19.000000', 1),
(11, 'Knafeh', 'This delicious cheesecake uses Nabusi cheese, which is common to Palestine, Syria and Lebanon.The blush coloring comes from orange blossom water or rose water.', '31', 'https://dynaimage.cdn.cnn.com/cnn/q_auto,w_602,c_fill,g_auto,h_339,ar_16:9/http%3A%2F%2Fcdn.cnn.com%2Fcnnnext%2Fdam%2Fassets%2F170209172748-knafeh.jpg', '2021-07-19 23:24:19.000000', '2021-05-19 23:24:19.000000', 1),
(12, 'Murgh Makhani', 'Perhaps one of the most familiar Indian dish to the American diner, butter chicken first appeared in Delhi in the 1940s. It has a mild flavor that won\'t blow out your tastebuds, but you can increase the white pepper or curry powder for a more assertive taste.', '54', 'https://www.thespruceeats.com/thmb/HkR_HR9fqAR3HaC9cYNwwE9diBo=/974x0/filters:no_upscale():max_bytes(150000):strip_icc():format(webp)/butter-chicken-479366-step-12-3536fe3a146d4f31abafaf571790e544.jpg', '2017-08-09 23:17:00.000000', '2021-08-12 23:17:00.000000', 4),
(13, 'Chole', 'In Northern India, classic and easy cholechickpea curry often appears as a favorite menu item andas a result, has become a worldwide sensation. It can also serve a crowd, especially if you serve it hot alongwith fried Indian leavened bread like poori or bhatura.

Once you have the chickpeas, onions, and tomatoes, alongwith garlic and ginger pastes, some common Indian spiceswill bring it all together.', '42', 'https://www.thespruceeats.com/thmb/XfZ-PtUQPfhu9QdurxuNpaxndDQ=/1300x0/filters:no_upscale():max_bytes(150000):strip_icc():format(webp)/chole-chickpea-curry-1957946-hero-01- cddf957cc78d4032ba29ec2adbc05a97.jpg', '2018-08-18 23:17:00.000000', '2021-08-12 23:17:00.000000', 4),
(14, 'Tandoori Chicken', 'Although traditionally cooked in a clay oven, you can prepare the yogurt-marinated charred chicken in a regular oven (or on the grill). Youdo need to plan ahead, as the chicken should sit in the refrigerator for at least 6 hours or overnight to let the flavors develop. If you prefer, you can sear the marinated chicken cubes first on the stovetop to achievethat signature tandoori char.', '52', 'https://www.thespruceeats.com/thmb/SxIRu8AgdaHqXYKo10Gc9D97D1g=/1643x0/filters:no_upscale():max_bytes(150000):strip_icc():format(webp)/ChickenTandooriSpruce-f238bf7413984e088268565c5b660b11.jpg', '2019-05-07 23:24:19.000000', '2021-08-12 23:17:00.000000', 4),
(15, 'Chicken Vindaloo Curry', 'This is a mild and sweetly-spiced recipe for chicken vindaloo curry. Contrary to current belief, curries do not have to be hot and fiery. In fact, they never started out that way in India. Creating the curry paste is the most importantpart of this dish, so don\'t skimp on the ingredients.','63', 'https://www.thespruceeats.com/thmb/F8XL5PEpY4vE38-MEe8LDuclmtw=/900x0/filters:no_upscale():max_bytes(15000

0):strip_icc():format(webp)/authentic-chicken-vindaloo-recipe-468712017-step-hero_1- 57c6cc32841d4726b5f2eedd298b206d.jpg', '2021-08-12 23:17:00.000000', '2021-05-19 23:24:19.000000', 5),
(16, 'Lemon Rice', 'South Indian lemon rice makes a great weekday meal because it comes together quickly. Itoften appears solo or alongside raita, yogurt, chutney, or kosambari (a type of salad).', '42', 'https://www.thespruceeats.com/thmb/MmwoX0JRUMSC3gv- aSXVvyX-PHE=/1729x0/filters:no_upscale():max_bytes(150000):strip _icc():format(webp)/south-indian-lemon-rice-1957723- hero-02-18047e2504ad42fa96817e047c075ac3.jpg', '2021-05-19 23:24:19.000000', '2021-05-19 23:24:19.000000', 4),
(17, 'Naan', 'Naan, a puffy flatbread, goes with just about everything, including many popular dishes like tandoori chicken and all kinds of kebabs. While naan traditionally bakes in a tandoor or earthen oven, they work just as well in your own oven. The ingredient list includes yeast, flour, sugar, and water, as well as yogurt and ghee.', '24', 'https://www.thespruceeats.com/thmb/6P7g2QY- 3QHWs6a58LrJ2tbbw2w=/1391x0/filters:no_upscale():max_byt es(150000):strip_icc():format(webp)/naan-leavened- indian-flatbread-1957348-final-08- 116a2e523f6e4ee693b1a9655784d9b9.jpg', '2021-05-02 23:24:19.000000', '2021-05-19 23:24:19.000000', 4),
(18, 'Malai Prawn', 'This Bengali speciality often appears alongside jeera rice. Cook the shrimp in creamycoconut milk with whole spices for a deeply flavorful dish. Using head-on shrimp will add even more shellfish

character, but you can peel and devein them first if youprefer.', '55', 'https://www.thespruceeats.com/thmb/lyFzDP7IniEpb1eW1E2l rzpcvYc=/1237x0/filters:no_upscale():max_bytes(150000):s trip_icc():format(webp)/creamy-prawn-curry-1957454-hero-01- 9e15ed0ddd334cf4a03533f0b72919b9.jpg', '2021-05-01 23:24:19.000000', '2021-05-19 23:24:19.000000', 4),

(19, 'Vegan Basmati Rice', 'Fragrant, tender, and the perfect accompaniment to just about every main, all Indian feasts need basmati rice. Try this restaurant- style vegan recipe that results in a wonderfully spiced grain.', '44', 'https://www.thespruceeats.com/thmb/RLpF45cRVBDZAUzr83bT Ug6L914=/1633x0/filters:no_upscale():max_bytes(150000):s trip_icc():format(webp)/easy-vegan-indian-basmati-rice- recipe-3378479- hero-01- 35f4f27d496c41fea81589a7dce17eb1.jpg', '2021-05-19 23:24:19.000000', '2021-05-19 23:24:19.000000', 4),

(20, 'Tamarind-Stuffed Fish', 'A luxurious whole fish preparation flavored with tangy tamarind and fragrant barberries, perfect for Nowruz, the Persian new year. Find barberries in well-stocked Middle Eastern groceries. Get the recipe for Persian Tamarind-Stuffed Fish » Matt Taylor-Gross', '88', 'https://www.saveur.com/uploads/2019/02/08/VWK5QXQXNQDRT GHQGR3PR32C6M.jpg', '2021-08-12 23:17:00.000000', '2021- 08-12 23:17:00.000000', 3),

(21, 'Chelo ba Tahdig', 'Iranians usually serve chelo batahdig with stew, kebabs, or meat dishes. Herbs and alliums, feta, or walnuts often share the table. Get therecipe for Steamed Saffron Rice with Tahdig (Chelo ba

Tahdig) » Zachary Zavislak', '63',
'https://www.saveur.com/uploads/2019/03/11/WSVNQHIRDDTVZ
HYCGAMFEB5ZCM-1024x768.jpg', '2017-07-02
23:17:00.000000', '2021-07-15 23:17:00.000000', 3),
(22, 'Kuku Sabzi', 'A classic Persian herb-loaded eggdish with the
fragrant lift of rose petals. Get the recipe for Persian Kuku Sabzi » Matt
Taylor-Gross', '53',
'https://www.saveur.com/uploads/2019/01/16/R2FL55HMXTZNK
X7U75S4YEYS4U-1024x769.jpg', '2021-05-19
23:24:19.000000', '2021-05-19 23:24:19.000000', 3),
(23, 'Tahcheen-e Morgh', 'Bake this tahcheen, a saffronrice with chicken, in
a clear glass baking dish so you can check on the crisping of the rice's
bottom layer.
Get the recipe for Baked Saffron Yogurt Rice with Chicken (Tahcheen-e
Morgh) » Zachary Zavislak', '36',
'https://www.saveur.com/uploads/2019/03/11/SI4KF6ISWT2J7
XCCEZRWOH7DFY-1024x768.jpg', '2021-08-12
23:17:00.000000', '2021-08-12 23:17:00.000000', 3),
(24, 'Adas Polo', 'A thin layer of lavash bread can be cooked beneath the rice
to serve as a tahdig. Press it flat against the pot for even cooking.', '63',
'https://www.saveur.com/uploads/2019/03/11/L2N233EB3VWQE
43J7IJHYBS3Z4-1024x768.jpg', '2021-08-12
23:17:00.000000', '2021-08-12 23:17:00.000000', 3),
(25, 'Sichuan Pork', 'Sichuan Pork, actually, poached spicy slices of pork)
is a famous Sichuan cuisine dish.\r\n\r\nRather than cooking pork by stir-
frying ordeep-frying, which consumes lots of oil and can very easily
overcook the pork, it is boiled in water with a coating made from egg-
white and starch to preserve its

freshness and tenderness.\r\n\r\nThe meaty broth is typical Sichuan cuisine, featuring a peppery and spicy taste. When eating, you'll find each piece of meat contains abundant juices with a fresh and fragrant spicyaroma.', '68', 'https://images.chinahighlights.com/allpicture/2019/11/7 b3afb974d7946bbbe397f7c_894x670.webp', '2021-07-15 23:17:00.000000', '2021-07-13 23:17:03.000000', 2),

(26, 'Braised Pork Balls in Gravy', 'Braised pork balls in gravy are also known as "Chinese meatballs" (many of our clients call them this). If you like meatballs and spaghetti, you'll probably appreciate Chinese meatballs as well. The super-smooth and flavory gravy is almost like a "drug sauce" keeping your taste buds wanting moreand more. How many calories does it have? Trust me, you wouldn't care at all!\r\n\r\nTip: We suggest that you only order this dish in a decent restaurant where the meat quality is guaranteed and the prescribed lean: fat pork ratio of 7:3 is achieved in each meat ball.', '61','https://images.chinahighlights.com/allpicture/2019/11/a 47d9323b7ae409ba96e628d_894x596.webp', '2022-07-29 23:17:00.000000', '2021-07-15 23:17:00.000000', 2),

(27, 'Shrimp with Vermicelli and Garlic', 'Shrimp with vermicelli and is a dish not only favored by foreigners but also the Chinese younger generation in recent years as well.\r\n\r\nThis steamed dish brings out the aroma of everything it has. The heavy garlic with a seafood sauce flavor blends with the freshness of juicy shrimp. The vermicelli at the bottom absorbs every single drip of tasty juice running down. Some Chinese yellow wine to capture the aroma and highlight the flavor is the secret

to this delicacy.', '14', 'https://images.chinahighlights.com/allpicture/2019/11/fd729ddd3fdf4fd9beefc79e_894x594.webp', '2021-05-19 23:24:19.000000', '2021-05-19 23:24:19.000000', 2),

(28, 'Chow Mein', '\"Chow mein\" (炒面 chǎomiàn) is the Cantonese pronunciation of the Chinese characters above,which means stir-fried noodles. Generally speaking, thisstir-fried dish consists of noodles, meat (usually chicken, beef, shrimp, or pork), onions and celery.\r\n\r\nFor making chow mein, the noodles need tobe cooked in boiling water for a while. After they becoming cool, then move to the step of stir-frying. S','28', 'https://images.chinahighlights.com/allpicture/2018/03/10725167158a4b8589bf3140_894x596.webp', '2021-08-15 23:17:00.000000', '2021-05-19 23:24:19.000000', 2),

(29, 'Sweet and Sour Pork', 'Sweet and sour pork has a bright orange-red color, and a delicious sweet and sour taste.\r\n\r\nAt the very beginning there was only sweetand sour pork, but to meet demands, there have been some developments on this dish. Now, the pork can be substituted by other ingredients like chicken, beef or pork ribs. See How to Cook Sweet and Sour Pork.', '68', 'https://images.chinahighlights.com/allpicture/2019/11/a4ad4a7fe0cb401cb0be6383_894x598.webp', '2021-05-25 23:24:19.000000', '2021-05-19 23:24:19.000000', 2),

(31, 'Pizza', 'Though a slab of flat bread served with oil and spices was around long before the unification Italy, there's perhaps no dish that is as common or as representative of the country as the humble pizza. Easy,cheap, and filling, pizza has long been a common snack

or meal, especially in Naples where tomato sauce was first added. When the Italian Queen Margherita came through the bustling city on a tour of her kingdom in 1889 she asked to try this dish that she saw so many of her subjects eating. A local entrepreneur served her thenow legendary combination of tomato sauce, mozzarella, and basil, creating (or more likely, branding) the Margherita pizza. Whether by coincidence or design, the Margherita also displays the colors of the Italian flag.', '25', 'https://www.walksofitaly.com/blog/wp-content/uploads/2011/05/DSC_0195-768x510.jpg', '2014-07-05 23:17:00.000000', '2021-07-15 23:17:00.000000', 5),

(32, 'Lasagna', 'Lasagna is a wide, flat pasta noodle, usually baked in layers in the oven. Like most Italian dishes, its origins are hotly contested, but we can at least say that's its stronghold is in the region of Emilia-Romagna, where it transformed from a poor man's food to a rich meal filled with the ragù, or meat sauce.', '86', 'https://www.walksofitaly.com/blog/wp-content/uploads/2016/07/11735294004_b68f0ab3ef_k- 768x512.jpg', '2017-05-10 23:24:19.000000', '2021-05-19 23:24:19.000000', 5),

(33, 'Ossobuco', 'The world-famous ossobuco alla milanese is a bone-in veal shank, cooked low and slow until meltingly tender in a broth of meat stock, white wine, and veggies. Traditionally, it's accompanied by a gremolata (lemon zest, garlic, and parsley) but that's optional. Although the Milanese like to claim this meatymasterpiece there are as many versions of it as there are nonnas in Lombardy, which is known for hearty, oftenrustic dishes that are good at coating the ribs and

staving off the winter chill. Despite the popularity of ossobuco (which literally means 'hollow bone'), it's notalways common to see it on restaurant menus because it needs about three hours of cooking time. If you do get a chance to eat it in a restaurant or home, or even to cook it yourself, you should jump at the opportunity.
It's usually accompanied by polenta or the next item on our list.', '73', 'https://www.walksofitaly.com/blog/wp-content/uploads/2014/05/Osso-Buco-768x515.jpg', '2021-08-24 23:17:00.000000', '2021-05-19 23:24:19.000000', 5),
(34, 'Polpette', 'Polpette can be made of meat, fish, potatoes, rice or vegetables and can be prepared stewed,baked or fried.', '63', 'http://yourguidetoitaly.com/slowitaly/wp-content/uploads/2018/03/polpette-c.jpg', '2021-07-15 23:17:00.000000', '2021-07-12 23:17:03.000000', 5);

```sql
CREATE TABLE `users` (
    `id` bigint(11) NOT NULL,
    `type` int(11) NOT NULL DEFAULT 0,
    `username` varchar(111) NOT NULL,
    `email` varchar(111) NOT NULL,
    `password` varchar(111) NOT NULL,
    `phone` int(22) DEFAULT NULL,
    `street` varchar(50) DEFAULT NULL,
    `city` varchar(50) DEFAULT NULL,
    `zipcode` varchar(50) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
INSERT INTO `users` (`id`, `type`, `username`, `email`, `password`, `phone`, `street`, `city`, `zipcode`) VALUES
```

```sql
(1, 1, 'admin', 'admin@admin.com', 'admin', 5555555,'he', 'h', 'h'),
(2, 0, 'admin2', 'admin2@admin.com', 'admin2', 21, 'he','h', 'h'),
(4, 0, '2', 'mm@f.com', '1314', 1414, 'Al Dawhah Al
Janubiyah, Dhahran 34457', 'Dahran', '34466'),
(5, 0, '1', '1', '1', 1, '1', '1', '1');

ALTER  TABLE  `address`
  ADD PRIMARY KEY (`id`);
ALTER  TABLE  `cuisine`
  ADD PRIMARY KEY (`id`);

ALTER  TABLE  `product`
  ADD PRIMARY KEY (`id`),
  ADD KEY `cuisine_id` (`cuisine_id`);ALTER
TABLE `users`
  ADD PRIMARY KEY (`id`);

ALTER TABLE `address`
  MODIFY `id` int(11) NOT NULL AUTO_INCREMENT;
ALTER TABLE `cuisine`
  MODIFY `id` bigint(11) NOT NULL AUTO_INCREMENT,
AUTO_INCREMENT=6;

ALTER TABLE `product`
  MODIFY `id` bigint(11) NOT NULL AUTO_INCREMENT,
AUTO_INCREMENT=58;

ALTER TABLE `users`
```

```sql
  MODIFY `id` bigint(11) NOT NULL AUTO_INCREMENT,
AUTO_INCREMENT=6;


USE `phpmyadmin`;
INSERT INTO `pma__table_uiprefs` (`username`, `db_name`,
`table_name`, `prefs`,  `last_update`)  VALUES
('root', 'foodbox', 'product',
'{\"sorted_col\":\"`product`.`date_created` ASC\"}',
'2021-09-17 09:43:27');
COMMIT;
```

MyDataRestConfig.java

```java
package  com.simplilearn.foodbox.config;
import com.simplilearn.foodbox.entity.User;
import com.simplilearn.foodbox.entity.Cuisine;
import com.simplilearn.foodbox.entity.Product;
import
org.springframework.beans.factory.annotation.Autowired;
import
org.springframework.context.annotation.Configuration;
import
org.springframework.data.rest.core.config.RepositoryRest
Configuration;
import
org.springframework.data.rest.webmvc.config.RepositoryRe
stConfigurer;
import org.springframework.http.HttpMethod;
```

```java
import org.springframework.web.servlet.config.annotation.CorsRegistry;

import   javax.persistence.EntityManager; import
javax.persistence.metamodel.EntityType;import
java.util.ArrayList;
import java.util.List;import
java.util.Set;

@Configuration
public class MyDataRestConfig implements
RepositoryRestConfigurer {

    private EntityManager entityManager;

    @Autowired
    public MyDataRestConfig(EntityManager
theEntityManager) {
            entityManager = theEntityManager;
    }


    @Override
    public void
configureRepositoryRestConfiguration(RepositoryRestConfiguration config,
CorsRegistry cors) {

            HttpMethod[] theUnsupportedActions =
{HttpMethod.PUT, HttpMethod.POST, HttpMethod.DELETE};
            config.getExposureConfiguration()
                    .forDomainType(Product.class)
```

```java
                    .withItemExposure((metdata, httpMethods)
-> httpMethods.disable(theUnsupportedActions))
                    .withCollectionExposure((metdata,
httpMethods) -> httpMethods.disable(theUnsupportedActions));

        config.getExposureConfiguration()
                    .forDomainType(Cuisine.class)
                    .withItemExposure((metdata, httpMethods)
-> httpMethods.disable(theUnsupportedActions))
                    .withCollectionExposure((metdata,
httpMethods) -> httpMethods.disable(theUnsupportedActions));
        config.getExposureConfiguration()
                    .forDomainType(User.class)
                    .withItemExposure((metdata, httpMethods)
-> httpMethods.disable(theUnsupportedActions))
                    .withCollectionExposure((metdata,
httpMethods) -> httpMethods.disable(theUnsupportedActions));

        // call an internal helper method
        exposeIds(config);
    }
    private void exposeIds(RepositoryRestConfigurationconfig) {
        Set<EntityType<?>> entities =
entityManager.getMetamodel().getEntities();
        List<Class> entityClasses = new ArrayList<>();for
        (EntityType tempEntityType : entities) {
```

```
entityClasses.add(tempEntityType.getJavaType());
        }
        Class[] domainTypes = entityClasses.toArray(new
Class[0]);
        config.exposeIdsFor(domainTypes);
    }
}
```

----

productController.java

```java
package com.simplilearn.foodbox.controller;

import com.simplilearn.foodbox.dao.ProductRepository;import
com.simplilearn.foodbox.entity.Product; import
org.springframework.beans.factory.annotation.Autowired; import
org.springframework.data.rest.webmvc.ResourceNotFoundException;
import org.springframework.http.ResponseEntity; import
org.springframework.web.bind.annotation.*;

import java.util.HashMap;import
java.util.List; import
java.util.Map;


@CrossOrigin(origins = "http://localhost:4200")
@RestController
@RequestMapping("/api/v1/")
```

```java
public class ProductController {


    @Autowired
    private ProductRepository productRepository;

    // get all products
    @GetMapping("/products")
    public List<Product> getAllproducts(){ return
        productRepository.findAll();
    }


    // create product rest api@PostMapping("/products")
    public Product createProduct(@RequestBody Productproduct) {
        return productRepository.save(product);
    }
    @GetMapping("/products/{id}") public
    ResponseEntity<Product>
getproductById(@PathVariable Long id) {
        Product product = productRepository.findById(id)
                    .orElseThrow(() -> new
ResourceNotFoundException("product not exist with id :"
+ id));
        return ResponseEntity.ok(product);
    }
    @PutMapping("/products/{id}") public
    ResponseEntity<Product>
updateProduct(@PathVariable Long id, @RequestBodyProduct
productDetails){
        Product product = productRepository.findById(id)
```

```java
                        .orElseThrow(() -> new
ResourceNotFoundException("product not exist with id :"
+ id));

                    product.setName(productDetails.getName());

product.setDescription(productDetails.getDescription());
            product.setPrice(productDetails.getPrice());

product.setImageUrl(productDetails.getImageUrl());


            Product updatedProduct =
productRepository.save(product);
            return ResponseEntity.ok(updatedProduct);
    }

    // delete product rest api
    @DeleteMapping("/products/{id}")
    public ResponseEntity<Map<String, Boolean>>
deleteProduct(@PathVariable Long id){
            Product product = productRepository.findById(id)
                    .orElseThrow(() -> new
ResourceNotFoundException("product not exist with id :"
+ id));

            productRepository.delete(product);
            Map<String, Boolean> response = new HashMap<>();
            response.put("deleted", Boolean.TRUE);
            return ResponseEntity.ok(response);
    }
}
```

UserController.java

```java
package com.simplilearn.foodbox.controller;

import com.simplilearn.foodbox.dao.UserRepository;import
com.simplilearn.foodbox.entity.User; import
org.springframework.beans.factory.annotation.Autowired; import
org.springframework.data.rest.webmvc.ResourceNotFoundException;
import org.springframework.http.ResponseEntity; import
org.springframework.web.bind.annotation.*;import java.util.List;
@CrossOrigin(origins = "http://localhost:4200")
@RestController
@RequestMapping("/api/v1/") public
class UserController {
    @Autowired
    private UserRepository userRepository;
    @GetMapping("/users")
    public List<User> getAllUsers(){ return
        userRepository.findAll();
    }
    @PostMapping("/users")
    public User createUser(@RequestBody User user) {return
        userRepository.save(user);
    }
    @GetMapping("/users/{id}")
```

```java
    public ResponseEntity<User>
getUserById(@PathVariable Long id) {
        User user = userRepository.findById(id)
                .orElseThrow(() -> new
ResourceNotFoundException("user not exist with id :" +
id));
        return ResponseEntity.ok(user);
    }
```

CuisineRepository.java

```java
package com.simplilearn.foodbox.dao;

import com.simplilearn.foodbox.entity.Cuisine;
import
org.springframework.data.jpa.repository.JpaRepository;
import
org.springframework.data.rest.core.annotation.Repository
RestResource;
import
org.springframework.web.bind.annotation.CrossOrigin;

@CrossOrigin("http://localhost:4200")
public interface CuisineRepository extends
JpaRepository<Cuisine, Long> {
}
```

ProductRepository.java

```java
package com.simplilearn.foodbox.dao;
```

```java
import com.simplilearn.foodbox.entity.Product; import
org.springframework.data.domain.Page; import
org.springframework.data.domain.Pageable;import
org.springframework.data.jpa.repository.JpaRepository;import
org.springframework.web.bind.annotation.CrossOrigin; import
org.springframework.web.bind.annotation.RequestParam;

@CrossOrigin("http://localhost:4200") public interface
ProductRepository extendsJpaRepository<Product,
Long> {
    Page<Product> findAllByOrderByNameAsc(Pageable
pageable);

    Page<Product> findAllByOrderByDateCreatedDesc(Pageable
pageable);

    Page<Product> findByCuisine(@RequestParam("cuisine")int cuisine,
Pageable pageable);

    Page<Product>
findByCuisineOrderByNameAsc(@RequestParam("cuisine") intcuisine,
Pageable pageable);

    Page<Product>
findByCuisineOrderByDateCreatedDesc(@RequestParam("cuisine") int
cuisine, Pageable pageable);

    // for searching
```

```java
    Page<Product>
findByNameContaining(@RequestParam("name") String name,
Pageable pageable);

    Page<Product>
findByNameContainingOrderByNameAsc(@RequestParam("name")
String name, Pageable pageable);

    Page<Product>
findByNameContainingOrderByDateCreatedDesc(@RequestParam
("name") String name, Pageable pageable);



}
```

UserRepository.java

```java
package com.simplilearn.foodbox.dao;

import com.simplilearn.foodbox.entity.User;
import org.springframework.data.domain.Page;
import org.springframework.data.domain.Pageable;
import
org.springframework.data.jpa.repository.JpaRepository;
import
org.springframework.web.bind.annotation.CrossOrigin;
import
org.springframework.web.bind.annotation.RequestParam;
```

```java
@CrossOrigin("http://localhost:4200")
public interface UserRepository extends
JpaRepository<User, Long> {

    Page<User> findByUsername(@RequestParam("username")
String username, Pageable pageable);
```

Address.java

```java
package com.simplilearn.foodbox.entity;
import lombok.Data;

import javax.persistence.*;

@Entity
@Table(name="address")
@Data
public class Address {

    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    @Column(name = "id")
    private Long id;
```


Cuisine.java

```java
package com.simplilearn.foodbox.entity;
```

```java
import lombok.Getter;
import lombok.Setter;

import javax.persistence.*;

@Entity
@Table(name="cuisine")
// @Data -- known bug
@Getter
@Setter
public class Cuisine {

    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    @Column(name = "id")
    private Long id;

    @Column(name = "cuisine_name")
    private String cuisine_name;


    public String getCuisine_name() {return
        cuisine_name;
    }

    public void setCuisine_name(String cuisine_name) {
        this.cuisine_name = cuisine_name;
    }

    public Long getId() {return
        id;
    }
```

```java
    public void setId(Long id) {
        this.id = id;
    }
}
```


Product.java

```java
package com.simplilearn.foodbox.entity;
import lombok.Data;
import org.hibernate.annotations.CreationTimestamp;
import org.hibernate.annotations.UpdateTimestamp;

import javax.persistence.*;
import java.math.BigDecimal;
import java.util.Date;

@Entity
@Table(name="product")
@Data
public class Product {

    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    @Column(name = "id")
    private Long id;

    @Column(name = "cuisine_id")
    private int cuisine;

    @Column(name = "name")
```

```java
    private String name;

    @Column(name = "description")
    private String description;

    @Column(name = "price")
    private BigDecimal price;

    @Column(name = "image_url")
    private String imageUrl;

    @Column(name = "date_created")
    @CreationTimestamp
    private Date dateCreated;

    @Column(name = "last_updated")
    @UpdateTimestamp
    private Date lastUpdated;



    public String getName() {return
        name;
    }

    public void setName(String name) {this.name
        = name;
    }

    public String getDescription() {return
        description;
    }
```

```java
    public void setDescription(String description) {this.description =
        description;
    }

    public BigDecimal getPrice() {return
        price;
    }

    public void setPrice(BigDecimal price) {this.price =
        price;
    }

    public String getImageUrl() {return
        imageUrl;
    }

    public void setImageUrl(String imageUrl) {this.imageUrl
        = imageUrl;
    }

    public Date getDateCreated() {return
        dateCreated;
    }

    public void setDateCreated(Date dateCreated) {
        this.dateCreated = dateCreated;
    }

    public Date getLastUpdated() {return
        lastUpdated;
```

```java
    }

    public void setLastUpdated(Date lastUpdated) {
        this.lastUpdated = lastUpdated;
    }

    public Long getId() {
        return id;
    }

    public void setId(Long id) {
        this.id = id;
    }
}
```

User.java

```java
package com.simplilearn.foodbox.entity;
import lombok.Data;

import javax.persistence.*;

@Entity
@Table(name="users")
@Data
public class User {

    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    @Column(name = "id")
```

```java
    private Long id;

    @Column(name = "username")
    private String username;

    @Column(name = "email")
    private String email;

    @Column(name = "password")
    private String password;

    @Column(name = "phone")
    private int phone;

    @Column(name = "street")
    private String street;

    @Column(name = "city")
    private String city;

    @Column(name = "zipcode")
    private String zipcode;

    public String getUsername() {return
        username;
    }

    public void setUsername(String username) {
        this.username = username;
    }
```

```java
public String getEmail() {return
    email;
}

public void setEmail(String email) {this.email =
    email;
}

public String getPassword() {return
    password;
}

public void setPassword(String password) {this.password
    = password;
}

public int getPhone() {return
    phone;
}

public void setPhone(int phone) {this.phone
    = phone;
}

public String getStreet() {return
    street;
}

public void setStreet(String street) {this.street =
    street;
}
```

```java
    public String getCity() {
        return city;
    }

    public void setCity(String city) {
        this.city = city;
    }

    public String getZipcode() {
        return zipcode;
    }

    public void setZipcode(String zipcode) {
        this.zipcode = zipcode;
    }

    public Long getId() {
        return id;
    }

    public void setId(Long id) {
        this.id = id;
    }
}
```

Application-foodbox.java

```java
package com.simplilearn.foodbox;
```

```java
import org.springframework.boot.SpringApplication;
import
org.springframework.boot.autoconfigure.SpringBootApplica
tion;

@SpringBootApplication
public class FoodboxApplication {

    public static void main(String[] args) {
        SpringApplication.run(FoodboxApplication.class,
args);
    }

}
```

FoodboxApplicationTests.java

```java
package com.simplilearn.foodbox;
import org.junit.jupiter.api.Test;
import
org.springframework.boot.test.context.SpringBootTest;
@SpringBootTest
class FoodboxApplicationTests {
    @Test
    void contextLoads() {
    }
}
```

Front-end

Add-product.component.html

```html
<br><br>
<div class="login-form" style="width:44%" >
    <form   (ngSubmit) = "handleAddProduct()">
        <h2 class="text-center">Add a New Product</h2>

        <div class="form-group">
            Name:<input [(ngModel)] = "product.name"
name = "name" type="text" class="form-control"
required="required">
        </div>
        <br>
        <div class="form-group">
            Description:
            <input [(ngModel)] = "product.description"
name = "description" type="text" class="form-control"
required="required" >
        </div>
        <br>
        <div class="form-group">
            Price:
            <input [(ngModel)] = "product.price" name =
"price" type="text" class="form-control"
required="required">
        </div>
        <br>
        <div class="form-group">
            Image URL:
```

```
            <input [(ngModel)] = "product.imageUrl" name
= "imageUrl" type="text" class="form-control"
required="required">
        </div>
        <br>
        <div class="form-group">
            Cuisine:
            <br>
            <select [(ngModel)]="product.cuisine" name =
"selectedCuisine">
                <option *ngFor="let cuisine of
productCuisines"
[ngValue]="cuisine.id">{{cuisine.cuisine_name}}</option>
            </select>
        </div>
        <br>
        <div class="form-group">
            <button type="submit" class="btn btn-success
btn-block">Add</button>
        </div>
    </form>
</div>
------------------------------------------------------------
```

Cart-details.component.html

```
<div class="main-content">
    <div class="section-content section-content-p30">
        <div class="container-fluid">

            <div *ngIf="username == null" class="alert
alert-danger col-md-12" role="alert">
```

```html
                    You need to be registered in the system.
                </div>

                <div *ngIf="username != null &&
cartItems.length > 0">

                    <table class="table table-bordered">
                        <tr>
                            <th width="20%">Product
Image</th>
                            <th width="50%">Product
Detail</th>
                            <th width="30%"></th>
                        </tr>

                        <tr *ngFor="let tempCartItem of
cartItems">
                            <td>
                                <img src="{{
tempCartItem.imageUrl }}" class="img-responsive"
width="150px" />
                            </td>
                            <td>
                                <p>{{ tempCartItem.name
}}</p>
                                <p>{{ tempCartItem.unitPrice
| currency: 'USD' }}</p>
                            </td>
                            <td>
                                <div class="items">
                                    <label>Quantity:</label>
```

```html
<div class="row no-gutters">
    <div class="col">
        <button (click)="incrementQuantity(tempCartItem)" class="btnbtn-primary btn-sm">
            <i class="fas fa-plus"></i>
        </button>
    </div>

    <div class="col ml-4 mr-2"> tempCartItem.quantity
        {{
        }}
    </div>

    <div class="col">
        <button (click)="decrementQuantity(tempCartItem)" class="btnbtn-primary btn-sm">
            <i class="fas fa-minus"></i>
        </button>
    </div>

    <div class="col-8"></div>
</div>
```

```html
                        </div>

                        <button
(click)="remove(tempCartItem)" class="au-btn-submit"
style="width:22px; background: red; color: white"
  >Remove</button>

                                        <p class="mt-2"></p>
                            </td>
                        </tr>

                    <tr>
                            <td colspan="2"></td>
                            <td style="font-weight: bold">
                                    <p>Total Quantity: {{
totalQuantity }}</p>
                                    <p>Total Price: {{
totalPrice | currency: 'USD' }}</p>
                                    <a (click)="getTotalPrice()"
routerLink="/checkout"><button class="au-btn-submit" style="width:181px;
height: 55px; background: green; color: white"   >Confirm</button></a>

                                    <br>
                            </td>
                    </tr>
                </table>
            <div *ngIf="cartItems.length == 0" class="alert alert-warning
col-md-12" role="alert">
                    Your shopping cart is empty.
            </div>
```

```
          </div>
      </div>
</div>
```

Checkout.html

```html
<div class="main-content">
      <div class="section-content section-content-p30">
            <div class="container-fluid">


            <div style="margin-left: 15px;">
            <h6   style="font-size:22px;">
                  <p>Thank you <b>{{username}}</b> for purchasing
our products. Your support and trust in usare much appreciated. </p>
                  <p>The total price of your bill is
<b>${{totalPrice}}</b> </p>
                  <p>The products will be dilivred to you soonto your address
as following:</p>
                  <p><b>city:</b> {{this.users[0]?.city}}</p>
                  <p><b>street:</b>
{{this.users[0]?.street}}</p>
                  <p><b>zipcode:</b>
          {{this.users[0]?.zipcode}}</p>
            </h6>
      </div>
            <a (click)="backHome()"><button class="au-btn-submit"
style="width:181px; height: 55px; background: green; color: white"
>Confirm</button></a>
            </div>
```

```
        </div>
</div>
```

Login.component.html

```html
<br>
<br>
<div class="login-form">
    <form  (ngSubmit)="onSubmit()" >
        <h2 class="text-center">Log in</h2>
        <div>
        <div class="form-group">
            <input [(ngModel)] = "user.username" name =
"username" type="text" class="form-control"
placeholder="Username" required="required">
        </div>
        <br>
        <div class="form-group">
            <input [(ngModel)] = "user.password" name =
"password" type="password" class="form-control"
placeholder="Password" required="required">
        </div>
        <br>
        <div class="form-group">
            <button type="submit" class="btn btn-primary
btn-block">Log in</button>
        </div>
    </div>
    </form>
    <p class="text-center"><a
routerLink="/register">Create an Account</a></p>
```

```
</div>
```

Product-category-menu.component.html

```html
<div class="menu-sidebar-content js-scrollbar1">
  <nav class="navbar-sidebar">
      <ul class="list-unstyled navbar-list">


          <li style="margin-left:-17px;font-size:27px;font-family:
Helvetica, sans-serif;"> Cuisines:</li>


              <li style="line-height: 2.3;">

                <i class="fa fa-angle-double-right"style="font-
size:14px"></i>
                <a style="text-decoration:none"
routerLink="/category" [ngClass]="{'active- link':clicked}"
(click)="Clicked()">
                      All
                </a>
            </li>
            <li style="line-height: 2.3;" *ngFor="let
tempProductCategory of productCategories">
                <i class="fa fa-angle-double-right"style="font-
size:14px"></i>
                <a style="text-decoration:none"
routerLink="/category/{{ tempProductCategory.id }}"
routerLinkActive="active-link" (click)="UnClicked()">
                        {{ tempProductCategory.cuisine_name
}}
                </a>
```

```
                    <br>

            </li>
            <br>

            <li>
                <button *ngIf="username == 'admin'"
routerLink="/add-product"    class="btn btn-primary
btn-sm">Add Product</button>
            </li>
        </ul>
    </nav>
</div>
```

Register.component.html

```html
<br><br>
<div class="login-form" >
    <form   (ngSubmit) = "saveUser()">
        <h2 class="text-center">Register</h2>
        <div class="form-group">
            <input [(ngModel)] = "user.username" name =
"username" type="text" class="form-control"
placeholder="Username" required="required">
        </div>
        <br>
        <div class="form-group">
            <input [(ngModel)] = "user.email" name =
"email" type="text" class="form-control"
placeholder="Email" required="required">
```

```html
            </div>
            <br>
            <div class="form-group">
                    <input [(ngModel)] = "user.password" name ="password"
type="password" class="form-control" placeholder="Password"
required="required">
            </div>
            <br>
            <div class="form-group">
                    <input [(ngModel)] = "user.phone" name ="phone"
type="text" class="form-control" placeholder="phone"
required="required">
            </div>
            <br>

            <h6>Address</h6>
            <div class="form-group">
                    <input [(ngModel)] = "user.city" name ="city"
type="text" class="form-control" placeholder="city"
required="required">
            </div>
            <br>
            <div class="form-group">
                    <input [(ngModel)] = "user.street" name ="street"
type="text" class="form-control" placeholder="street"
required="required">
            </div>
            <br>
            <div class="form-group">
```

```html
            <input [(ngModel)] = "user.zipcode" name =
"zipcode" type="text" class="form-control"
placeholder="zipCode" required="required">
        </div>
        <br>


        <div class="form-group">
            <button type="submit" class="btn btn-primary
btn-block">Register</button>
        </div>

    </form>
    <p class="text-center"><a routerLink="/login">Back
to Login</a></p>
</div>
```

Search-component.html

```html
div class="form-header">

    <input #myInput type="text"
            placeholder="Search for products ..."
            class="au-input au-input-xl"
            (keyup.enter)="doSearch(myInput.value)"  />



    <button (click)="doSearch(myInput.value)" class="au-
btn-submit">
        Search
    </button>
```

```
</div>
```

Index.html

```html
<!doctype html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <title>Foodbox</title>
  <base href="/">
  <meta name="viewport" content="width=device-width,
initial-scale=1">
  <link rel="icon" type="image/x-icon"
href="favicon.ico">
</head>
<body>
  <app-root></app-root>
</body>
</html>
```

Karma.conf.js

```js
module.exports = function (config) {
  config.set({
    basePath: '',
    frameworks: ['jasmine', '@angular-devkit/build-
angular'],
    plugins: [
      require('karma-jasmine'),
      require('karma-chrome-launcher'),
```

```javascript
        require('karma-jasmine-html-reporter'),
        require('karma-coverage'), require('@angular-
        devkit/build-
angular/plugins/karma')
    ],
    client: {
        jasmine: {

        },
        clearContext: false                },
    jasmineHtmlReporter: {
        suppressAll: true
    },
    coverageReporter: {
        dir: require('path').join(__dirname,'./coverage/foodbox'),
        subdir: '.',
        reporters: [
            { type: 'html' },
            { type: 'text-summary' }
        ]
    },
    reporters: ['progress', 'kjhtml'],port: 9876,
    colors: true,
    logLevel: config.LOG_INFO,
    autoWatch:   true, browsers:
    ['Chrome'], singleRun: false,
    restartOnFileChange: true
});
```

```
};
```

---

tsconfig.app.json

```json
{
  "extends": "./tsconfig.json",
  "compilerOptions": {
    "outDir": "./out-tsc/app",
    "types": []
  },
  "files": [
    "src/main.ts",
    "src/polyfills.ts"
  ],
  "include": [
    "src/**/*.d.ts"
  ]
}
```

---

tsconfig.spec.json

```json
{
  "extends": "./tsconfig.json",
  "compilerOptions": {
    "outDir": "./out-tsc/spec",
    "types": [
      "jasmine"
    ]
  },
  "files": [
```

```
    "src/test.ts",
    "src/polyfills.ts"
  ],
  "include": [
    "src/**/*.spec.ts",
    "src/**/*.d.ts"
  ]
}
```

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