Kitchen Story (Project Source Code)

Version History:

Author	Nikhil Jain	
Purpose	Source Code of the application	
Date 10 th December 2021		
Version	1.0	

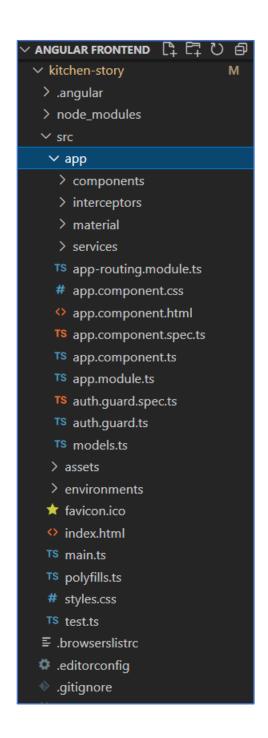
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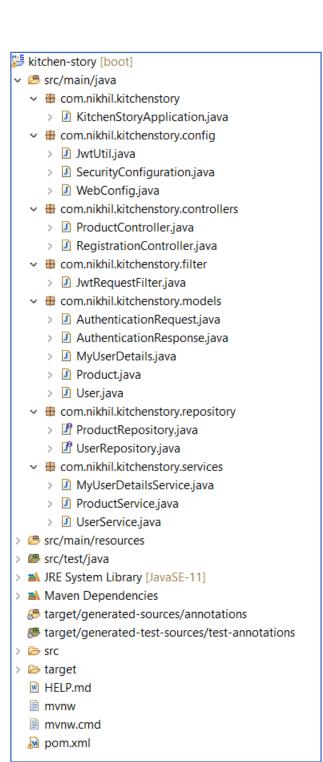
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Repository Name	Kitchen Story
GitHub Link	https://github.com/Niks4u2/KitchenStory
Deployed On	http://kitchen-story-angular.herokuapp.com/home

Folder Structure





Source Code

Configuration

1. SecurityConfiguration.java

```
package com.nikhil.kitchenstory.config;
import java.util.Arrays;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.Configuration;
import org.springframework.security.authentication.AuthenticationManager;
import
org.springframework.security.authentication.dao.DaoAuthenticationProvider;
import
org.springframework.security.config.annotation.authentication.builders.Authentic
ationManagerBuilder;
import org.springframework.security.config.annotation.web.builders.HttpSecurity;
org.springframework.security.config.annotation.web.configuration.EnableWebSecuri
ty;
import
org.springframework.security.config.annotation.web.configuration.WebSecurityConf
igurerAdapter;
import org.springframework.security.config.http.SessionCreationPolicy;
import org.springframework.security.core.userdetails.UserDetailsService;
import org.springframework.security.crypto.password.NoOpPasswordEncoder;
import org.springframework.security.crypto.password.PasswordEncoder;
import
org.springframework.security.web.authentication.UsernamePasswordAuthenticationFi
import org.springframework.web.cors.CorsConfiguration;
import org.springframework.web.cors.CorsConfigurationSource;
import org.springframework.web.cors.UrlBasedCorsConfigurationSource;
import com.nikhil.kitchenstory.filter.JwtRequestFilter;
@SuppressWarnings("deprecation")
@Configuration
@EnableWebSecurity
public class SecurityConfiguration extends WebSecurityConfigurerAdapter {
      @Autowired
      UserDetailsService userDetailsService;
      @Autowired
      private JwtRequestFilter jwtRequestFilter;
      public PasswordEncoder passwordEncoder() {
          return NoOpPasswordEncoder.getInstance();
      }
```

```
@Bean
      public DaoAuthenticationProvider authenticationProvider()
             DaoAuthenticationProvider auth = new DaoAuthenticationProvider();
             auth.setUserDetailsService(userDetailsService);
             auth.setPasswordEncoder(passwordEncoder());
             return auth;
      }
      @Override
      @Bean
      public AuthenticationManager authenticationManagerBean() throws Exception
{
             return super.authenticationManagerBean();
      }
      // authentication
      @Override
      protected void configure(AuthenticationManagerBuilder auth) throws
Exception {
             auth.authenticationProvider(authenticationProvider());
      }
      // authorization
      @Override
      protected void configure(HttpSecurity http) throws Exception {
             http.cors().and().csrf().disable()
             .authorizeRequests().antMatchers("/authenticate", "/registration",
"/products").permitAll().
                          anyRequest().authenticated()
       .and().sessionManagement().sessionCreationPolicy(SessionCreationPolicy.ST
ATELESS);
             http.addFilterBefore(jwtRequestFilter,
UsernamePasswordAuthenticationFilter.class);
      }
    @Bean
    CorsConfigurationSource corsConfigurationSource()
        CorsConfiguration configuration = new CorsConfiguration();
        configuration.setAllowedOriginPatterns(Arrays.asList("*"));
        configuration.setAllowedMethods(Arrays.asList("HEAD", "GET", "POST",
"PUT", "DELETE", "PATCH"));
        configuration.setAllowCredentials(true);
        configuration.setAllowedHeaders(Arrays.asList("Authorization", "Cache-
Control", "Content-Type"));
        final UrlBasedCorsConfigurationSource source = new
UrlBasedCorsConfigurationSource();
        source.registerCorsConfiguration("/**", configuration);
        return source;
    }
}
```

2. JwtUtil.java

```
package com.nikhil.kitchenstory.config;
import io.jsonwebtoken.Claims;
import io.jsonwebtoken.Jwts;
import io.jsonwebtoken.SignatureAlgorithm;
import org.springframework.security.core.userdetails.UserDetails;
import org.springframework.stereotype.Service;
import java.util.Date;
import java.util.HashMap;
import java.util.Map;
import java.util.function.Function;
@Service
public class JwtUtil {
    private String SECRET KEY = "secret";
    public String extractUsername(String token) {
        return extractClaim(token, Claims::getSubject);
    public Date extractExpiration(String token) {
        return extractClaim(token, Claims::getExpiration);
    public <T> T extractClaim(String token, Function<Claims, T> claimsResolver)
{
        final Claims claims = extractAllClaims(token);
        return claimsResolver.apply(claims);
    private Claims extractAllClaims(String token) {
Jwts.parser().setSigningKey(SECRET_KEY).parseClaimsJws(token).getBody();
    private Boolean isTokenExpired(String token) {
        return extractExpiration(token).before(new Date());
    public String generateToken(UserDetails userDetails) {
        Map<String, Object> claims = new HashMap<>();
        return createToken(claims, userDetails.getUsername());
    private String createToken(Map<String, Object> claims, String subject) {
        return
Jwts.builder().setClaims(claims).setSubject(subject).setIssuedAt(new
Date(System.currentTimeMillis()))
                .setExpiration(new Date(System.currentTimeMillis() + 1000 * 60 *
60 * 48))
                .signWith(SignatureAlgorithm.HS256, SECRET_KEY).compact();
    public Boolean validateToken(String token, UserDetails userDetails) {
        final String username = extractUsername(token);
        return (username.equals(userDetails.getUsername()) &&
!isTokenExpired(token));
    }
```

Controllers

1. ProductController.java

```
package com.nikhil.kitchenstory.controllers;
import java.util.List;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.CrossOrigin;
import org.springframework.web.bind.annotation.DeleteMapping;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RestController;
import com.nikhil.kitchenstory.models.Product;
import com.nikhil.kitchenstory.services.ProductService;
@RestController
@CrossOrigin(origins = "http://localhost:4200")
@RequestMapping("/products")
public class ProductController
      @Autowired
      private ProductService service;
      @PostMapping
      public String addProduct(@RequestBody Product product)
             service.addProduct(product);
             return "Product add success.";
      }
      @GetMapping
      public List<Product> getProducts()
             List<Product> productlist = service.getAllProducts();
             return productlist;
      @DeleteMapping("/delete/{prodId}")
      public String deleteProduct(@PathVariable("prodId") String prodId) {
             service.deleteProductById(prodId);
             return "Product delete success.";
      }
}
```

2. RegistrationController.java

```
package com.nikhil.kitchenstory.controllers;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.http.ResponseEntity;
import org.springframework.security.authentication.AuthenticationManager;
import
org.springframework.security.authentication.BadCredentialsException;
import
org.springframework.security.authentication.UsernamePasswordAuthenticatio
nToken;
import org.springframework.security.core.userdetails.UserDetails;
import org.springframework.web.bind.annotation.CrossOrigin;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestMethod;
import org.springframework.web.bind.annotation.RestController;
import com.nikhil.kitchenstory.config.JwtUtil;
import com.nikhil.kitchenstory.models.AuthenticationRequest;
import com.nikhil.kitchenstory.models.AuthenticationResponse;
import com.nikhil.kitchenstory.models.User;
import com.nikhil.kitchenstory.services.MyUserDetailsService;
import com.nikhil.kitchenstory.services.UserService;
@RestController
@CrossOrigin(origins = "http://localhost:4200")
public class RegistrationController {
      @Autowired
      private UserService service;
      @Autowired
      private AuthenticationManager authenticationManager;
      @Autowired
      private JwtUtil jwtTokenUtil;
      @Autowired
      private MyUserDetailsService userDetailsService;
      @PostMapping("/registration")
      public void registerUserAccount(@RequestBody User user)
      {
             user.setRoles("USER");
             service.registerUser(user);
      @RequestMapping(value = "/authenticate", method =
RequestMethod.POST)
      public ResponseEntity<?> createAuthenticationToken(@RequestBody
AuthenticationRequest authenticationRequest) throws Exception {
```

Filters

1. JwtRequestFilter.java

```
package com.nikhil.kitchenstory.filter;
import org.springframework.beans.factory.annotation.Autowired;
import
org.springframework.security.authentication.UsernamePasswordAuthenticationToken;
import org.springframework.security.core.context.SecurityContextHolder;
import org.springframework.security.core.userdetails.UserDetails;
import
org.springframework.security.web.authentication.WebAuthenticationDetailsSource;
import org.springframework.stereotype.Component;
import org.springframework.web.filter.OncePerRequestFilter;
import com.nikhil.kitchenstory.config.JwtUtil;
import com.nikhil.kitchenstory.services.MyUserDetailsService;
import javax.servlet.FilterChain;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import java.io.IOException;
@Component
public class JwtRequestFilter extends OncePerRequestFilter {
    private MyUserDetailsService userDetailsService;
    @Autowired
    private JwtUtil jwtUtil;
    @Override
    protected void doFilterInternal(HttpServletRequest request,
HttpServletResponse response, FilterChain chain)
            throws ServletException, IOException {
        final String authorizationHeader = request.getHeader("Authorization");
        String username = null;
        String jwt = null;
        if (authorizationHeader != null &&
authorizationHeader.startsWith("Bearer ")) {
            jwt = authorizationHeader.substring(7);
            username = jwtUtil.extractUsername(jwt);
        }
        if (username != null &&
SecurityContextHolder.getContext().getAuthentication() == null) {
            UserDetails userDetails =
this.userDetailsService.loadUserByUsername(username);
```

Models

1. Product.java

```
package com.nikhil.kitchenstory.models;
import org.springframework.data.annotation.Id;
import org.springframework.data.mongodb.core.mapping.Document;
@Document(collection = "products")
public class Product {
      @Id
      private String id;
      private String productName;
      private double price;
      private String description;
      private String image;
      public Product() {}
      public Product(String productName, double price, String description,
String image) {
             this.productName = productName;
             this.price = price;
             this.description = description;
             this.image = image;
      }
      public String getImage() {
             return image;
      public void setImage(String image) {
             this.image = image;
      public String getId() {
             return id;
      public void setId(String id) {
             this.id = id;
      public String getProductName() {
             return productName;
      public void setProductName(String productName) {
             this.productName = productName;
      public double getPrice() {
             return price;
```

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

public String getDescription() {
        return description;
}

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

2. User.java

```
package com.nikhil.kitchenstory.models;
import org.springframework.data.annotation.Id;
import org.springframework.data.mongodb.core.index.Indexed;
import org.springframework.data.mongodb.core.mapping.Document;
@Document(collection = "users")
public class User {
      @Id
      private String id;
      private String firstName;
      private String lastName;
      @Indexed(unique = true)
      private String email;
      private String password;
      private String roles;
      public User() {};
      public User(String firstName, String lastName, String email, String
password) {
             this.firstName = firstName;
             this.lastName = lastName;
             this.email = email;
             this.password = password;
      public String getId() {
             return id;
      }
      public void setId(String id) {
             this.id = id;
      public String getFirstName() {
             return firstName;
      public void setFirstName(String firstName) {
             this.firstName = firstName;
      public String getLastName() {
             return lastName;
      public void setLastName(String lastName) {
             this.lastName = lastName;
      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 String getRoles() {
    return roles;
}

public void setRoles(String roles) {
    this.roles = roles;
}
```