# Kitchen Story
# (Project Source Code)

## Version History:

| | |
|---|---|
| Author | Mayur Bharatkumar Solanki |
| Purpose | Source Code of the application |
| Date | 8th February 2022 |
| Version | 1.0 |

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- Project Link

| Repository Name | Kitchen Story |
| --- | --- |
| GitHub Link | https://github.com/mursky66/SL_FSD_PHASE4_Project-.git |

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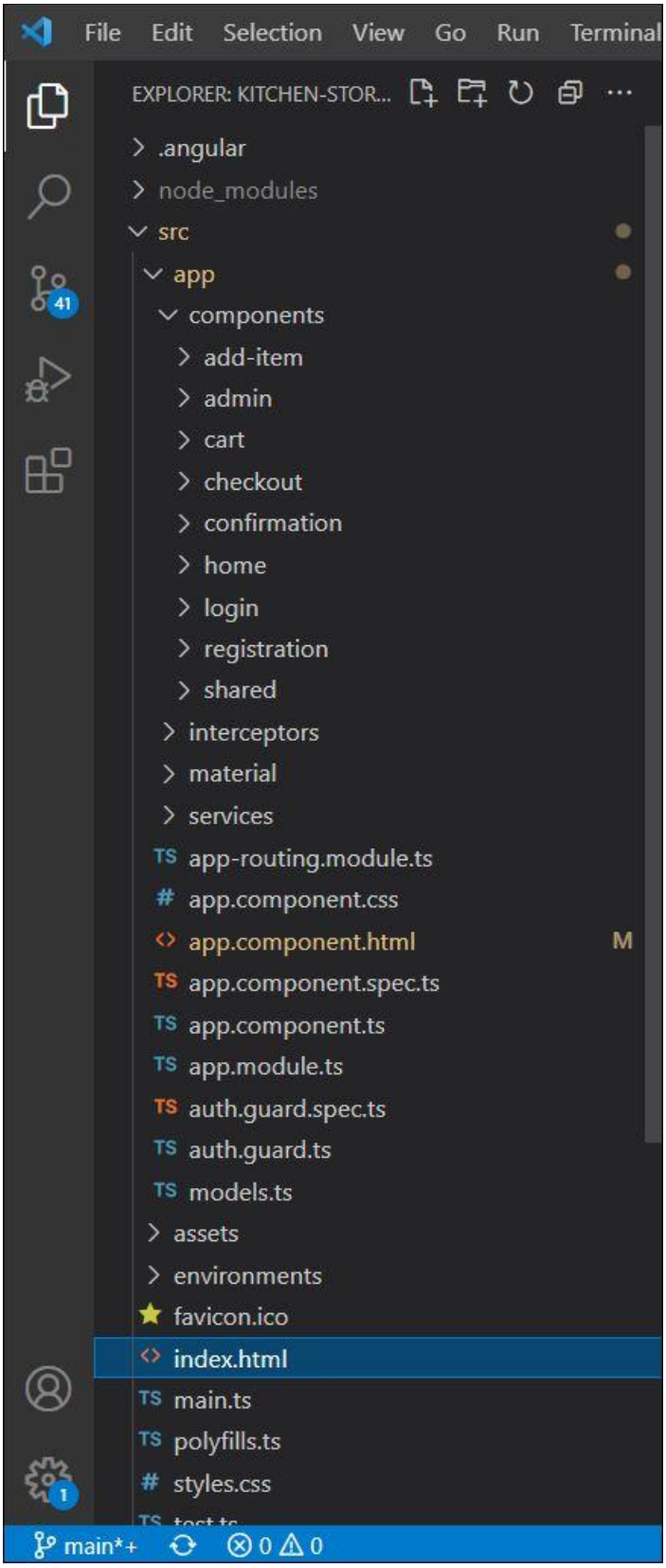

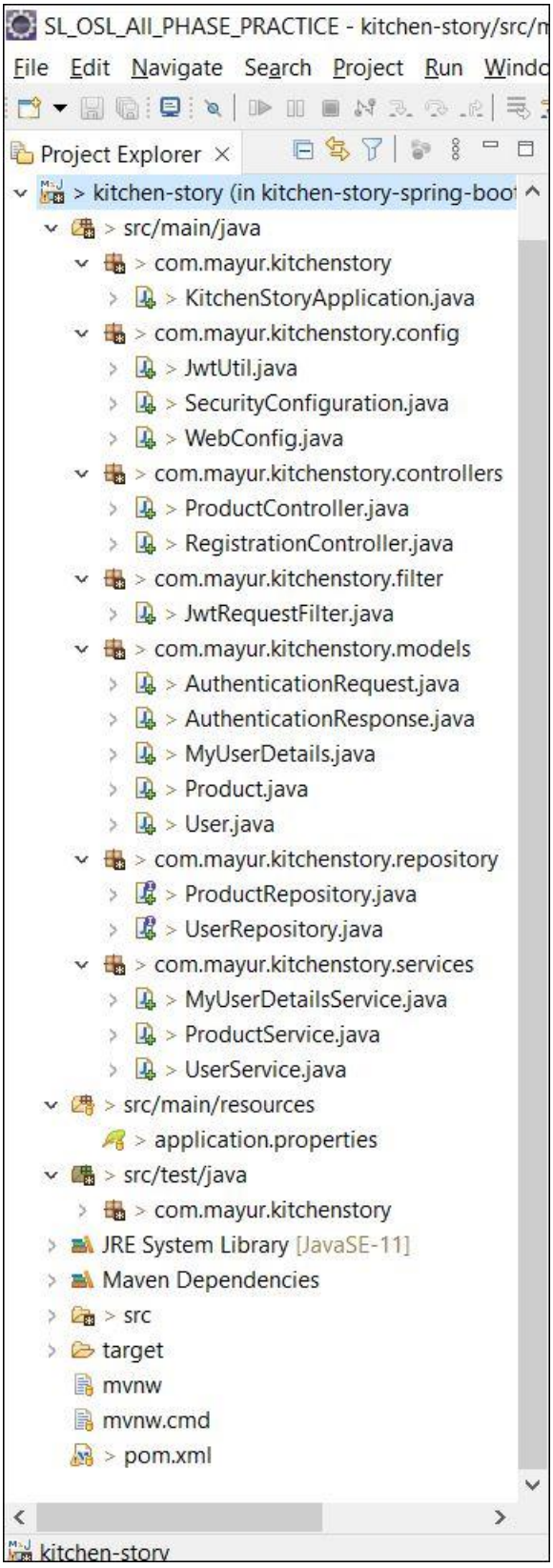
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- Source Code

## package com.mayur.kitchenstory;

```
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication
public class KitchenStoryApplication {

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

}
```

## package com.mayur.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.AuthenticationManagerBuilder;
import org.springframework.security.config.annotation.web.builders.HttpSecurity;
import org.springframework.security.config.annotation.web.configuration.EnableWebSecurity;
import org.springframework.security.config.annotation.web.configuration.WebSecurityConfigurerAdapter;
```

```
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.UsernamePasswordAuthenticationFilter;
import org.springframework.web.cors.CorsConfiguration;
import org.springframework.web.cors.CorsConfigurationSource;
import org.springframework.web.cors.UrlBasedCorsConfigurationSource;

import com.mayur.kitchenstory.filter.JwtRequestFilter;

@SuppressWarnings("deprecation")
@Configuration
@EnableWebSecurity
public class SecurityConfiguration extends WebSecurityConfigurerAdapter {
	@Autowired
	UserDetailsService userDetailsService;

	@Autowired
	private JwtRequestFilter jwtRequestFilter;

	@Bean
	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.STATELESS);
		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;
    }

}
```

## package com.mayur.kitchenstory.config;

```
import org.springframework.context.annotation.Configuration;
import org.springframework.web.servlet.config.annotation.CorsRegistry;
import org.springframework.web.servlet.config.annotation.EnableWebMvc;
import org.springframework.web.servlet.config.annotation.WebMvcConfigurer;

@Configuration
@EnableWebMvc
public class WebConfig implements WebMvcConfigurer
{
    @Override
    public void addCorsMappings(CorsRegistry corsRegistry) {
        corsRegistry.addMapping("/**")
                .allowedOrigins("http://localhost:4200")
                .allowedMethods("PUT", "DELETE","GET", "POST")
                .maxAge(3600L)
                .allowedHeaders("*");
    }
}
```

```
package com.mayur.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.mayur.kitchenstory.models.Product;
import com.mayur.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.";
	}
}
```

## package com.mayur.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.UsernamePasswordAuthenticationToken;
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.mayur.kitchenstory.config.JwtUtil;
import com.mayur.kitchenstory.models.AuthenticationRequest;
import com.mayur.kitchenstory.models.AuthenticationResponse;
import com.mayur.kitchenstory.models.User;
```

```
import com.mayur.kitchenstory.services.MyUserDetailsService;
import com.mayur.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 {

		try {
			authenticationManager.authenticate(
```

```
                                        new
UsernamePasswordAuthenticationToken(authenticationRequest.getEmail(),
authenticationRequest.getPassword())
                                );
                        }
                        catch (BadCredentialsException e) {
                                throw new Exception("Incorrect username or password", e);
                        }


                        final UserDetails userDetails = userDetailsService
                                        .loadUserByUsername(authenticationRequest.getEmail());


                        final String jwt = jwtTokenUtil.generateToken(userDetails);


                        return ResponseEntity.ok(new AuthenticationResponse(jwt));
                }
}
```

## package com.mayur.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.mayur.kitchenstory.config.JwtUtil;
import com.mayur.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 {

    @Autowired
    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);
```

```
        if (jwtUtil.validateToken(jwt, userDetails)) {


            UsernamePasswordAuthenticationToken usernamePasswordAuthenticationToken = new
UsernamePasswordAuthenticationToken(
                    userDetails, null, userDetails.getAuthorities());
            usernamePasswordAuthenticationToken
                    .setDetails(new WebAuthenticationDetailsSource().buildDetails(request));
            SecurityContextHolder.getContext().setAuthentication(usernamePasswordAuthenticationToken);
        }
    }
    chain.doFilter(request, response);
  }
}
```

```
package com.mayur.kitchenstory.models;

import java.io.Serializable;

public class AuthenticationRequest implements Serializable {
	private static final long serialVersionUID = 4662341638943225147L;

	private String email;
    private String password;

    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;
    }

    //need default constructor for JSON Parsing
    public AuthenticationRequest() { }

	public AuthenticationRequest(String email, String password) {
```

```
            super();
            this.email = email;
            this.password = password;
        }
}
```

## package com.mayur.kitchenstory.models;

```
import java.io.Serializable;

public class AuthenticationResponse implements Serializable {
       private static final long serialVersionUID = 7646727820952460100L;

       private final String jwt;

    public AuthenticationResponse(String jwt) {
        this.jwt = jwt;
    }

    public String getJwt() {
        return jwt;
    }
}
```

## package com.mayur.kitchenstory.models;

```
import java.util.Arrays;

import java.util.Collection;

import java.util.List;

import java.util.stream.Collectors;


import org.springframework.security.core.GrantedAuthority;

import org.springframework.security.core.authority.SimpleGrantedAuthority;

import org.springframework.security.core.userdetails.UserDetails;


public class MyUserDetails implements UserDetails {


        private static final long serialVersionUID = 1L;

        private String email;

        private String password;
```

```
private List<GrantedAuthority> authorities;

public MyUserDetails() {};

public MyUserDetails(User user) {
        this.email = user.getEmail();
        this.password = user.getPassword();
        this.authorities = Arrays.stream(user.getRoles().split(","))
                                                        .map(SimpleGrantedAuthority::new)
                                                        .collect(Collectors.toList());
}

@Override
public Collection<? extends GrantedAuthority> getAuthorities(){
        return authorities;
}

@Override
public String getPassword() {
        return password;
}

@Override
public String getUsername() {
        return email;
}

@Override
public boolean isAccountNonExpired() {
        return true;
}

@Override
```

```
	public boolean isAccountNonLocked(){
		return true;
	}

	@Override
	public boolean isCredentialsNonExpired() {
		return true;
	}

	@Override
	public boolean isEnabled(){
		return true;
	}
}
```

## package com.mayur.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;
	}
}
```

## package com.mayur.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;
	}
}
```

## package com.mayur.kitchenstory.repository;

```
import org.springframework.data.mongodb.repository.MongoRepository;
import org.springframework.stereotype.Repository;

import com.mayur.kitchenstory.models.Product;

@Repository
public interface ProductRepository extends MongoRepository<Product, String> {

}
```

## package com.mayur.kitchenstory.repository;

```
import java.util.Optional;

import org.springframework.data.mongodb.repository.MongoRepository;
import org.springframework.stereotype.Repository;

import com.mayur.kitchenstory.models.User;

@Repository
public interface UserRepository extends MongoRepository<User, String> {

        Optional<User> findByEmail(String email);
}
```

```
package com.mayur.kitchenstory.services;

import java.util.Optional;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.security.core.context.SecurityContextHolder;
import org.springframework.security.core.userdetails.UserDetails;
import org.springframework.security.core.userdetails.UserDetailsService;
import org.springframework.security.core.userdetails.UsernameNotFoundException;
import org.springframework.stereotype.Service;

import com.mayur.kitchenstory.models.MyUserDetails;
import com.mayur.kitchenstory.models.User;
import com.mayur.kitchenstory.repository.UserRepository;

@Service
public class MyUserDetailsService implements UserDetailsService
{
	@Autowired
	private UserRepository repository;

	@Override
	public UserDetails loadUserByUsername(String email) throws UsernameNotFoundException {
		Optional<User> user = repository.findByEmail(email);
		user.orElseThrow(() -> new UsernameNotFoundException("Not found: "+email));
		UserDetails details = user.map(MyUserDetails::new).get();
		return details;
	}

	public String getLoggedInUsername()
	{
		String username;
		Object principal = SecurityContextHolder.getContext().getAuthentication().getPrincipal();
```

```
            if (principal instanceof UserDetails) {
              username = ((UserDetails)principal).getUsername();
            } else {
              username = principal.toString();
            }
            return username;
        }
}
```

## package com.mayur.kitchenstory.services;

```
import java.util.List;
import java.util.Optional;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;
import com.mayur.kitchenstory.models.Product;
import com.mayur.kitchenstory.repository.ProductRepository;

@Service
public class ProductService {
        @Autowired
        private ProductRepository repository;

        public void addProduct(Product product)
        {
                repository.save(product);
        }

        public List<Product> getAllProducts()
        {
                return repository.findAll();
        }
```

```
	public Optional<Product> getProductById(String id)
	{
		return repository.findById(id);
	}

	public void deleteProductById(String id)
	{
		repository.deleteById(id);
	}
}
```

## package com.mayur.kitchenstory.services;

```
import java.util.List;
import java.util.Optional;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.security.crypto.password.PasswordEncoder;
import org.springframework.stereotype.Service;

import com.mayur.kitchenstory.models.User;
import com.mayur.kitchenstory.repository.UserRepository;

@Service
public class UserService {

	@Autowired
	private UserRepository repository;

	@Autowired
	PasswordEncoder passwordEncoder;

	public void registerUser(User user)
```

```
        {
                passwordEncoder.encode(user.getPassword());
                repository.save(user);
        }

        public Optional<User> findUserByEmail(String email)
        {
                return repository.findByEmail(email);
        }

        public List<User> getAllRegisteredUser()
        {
                return repository.findAll();
        }
}
```

## package com.mayur.kitchenstory;

```
import org.junit.jupiter.api.Test;
import org.springframework.boot.test.context.SpringBootTest;

@SpringBootTest
class KitchenStoryApplicationTests {

        @Test
        void contextLoads(){
        }

}
```