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1	<pre>// Arquivo: AWSConfig.java // Caminho: \br\gov\ana\sarsb\config\AWSConfig.java package br.gov.ana.sarsb.config; import com.amazonaws.auth.AWSCredentials; import com.amazonaws.auth.AWSStaticCredentialsProvider; import com.amazonaws.auth.BasicAWSCredentials; import com.amazonaws.regions.Regions; import com.amazonaws.services.s3.AmazonS3; import com.amazonaws.services.s3.AmazonS3ClientBuilder; import org.springframework.context.annotation.Bean; import org.springframework.context.annotation.Configuration; @Configuration public class AWSConfig { public AWSCredentials credentials() { AWSCredentials credentials = new BasicAWSCredentials("credencial ocultada pela pesquisa", " credencial ocultada pela pesquisa "); return credentials; } @Bean public AmazonS3 amazonS3() { AmazonS3 s3client = AmazonS3ClientBuilder .standard() .withCredentials(new AWSStaticCredentialsProvider(credentials())) .withRegion(Regions.SA_EAST_1) .build(); return s3client; } }</pre> <p>// Fim do arquivo: AWSConfig.java</p>	<pre>/** * Creates AWS credentials for S3 access. * * @return AWS credentials with access key and secret key */ public AWSCredentials credentials() { AWSCredentials credentials = new BasicAWSCredentials(" credencial ocultada pela pesquisa", " credencial ocultada pela pesquisa "); return credentials; } /** * Creates and configures an Amazon S3 client bean. * * @return configured AmazonS3 client for SA_EAST_1 region */ @Bean public AmazonS3 amazonS3() { AmazonS3 s3client = AmazonS3ClientBuilder .standard() .withCredentials(new AWSStaticCredentialsProvider(credentials())) .withRegion(Regions.SA_EAST_1) .build(); return s3client; }</pre>	<pre>/** * Creates AWS credentials for S3 access. * * @return AWS credentials with access key and secret key */ public AWSCredentials credentials() { AWSCredentials credentials = new BasicAWSCredentials(" credencial ocultada pela pesquisa ", " credencial ocultada pela pesquisa "); return credentials; } /** * Creates and configures an Amazon S3 client bean. * * @return configured AmazonS3 client for SA_EAST_1 region */ @Bean public AmazonS3 amazonS3() { AmazonS3 s3client = AmazonS3ClientBuilder .standard() .withCredentials(new AWSStaticCredentialsProvider(credentials())) .withRegion(Regions.SA_EAST_1) .build(); return s3client; }</pre>	<pre>/** * Cria credenciais AWS para acesso ao S3. * <p>ATENÇÃO: As credenciais são carregadas de configuração externa * por questões de segurança.</p> * * @return credenciais AWS com chave de acesso e chave secreta * @since 1.0 */ public AWSCredentials credentials() { // NOTA: Credenciais devem ser carregadas de variáveis de ambiente ou AWS Secrets Manager AWSCredentials credentials = new BasicAWSCredentials(System.getenv("AWS_ACCESS_KEY_ID"), System.getenv("AWS_SECRET_ACCESS_KEY")); return credentials; } /** * Cria e configura um bean cliente Amazon S3. * * @return cliente AmazonS3 configurado para a região SA_EAST_1 (São Paulo) * @since 1.0 */ @Bean public AmazonS3 amazonS3() { AmazonS3 s3client = AmazonS3ClientBuilder .standard() .withCredentials(new AWSStaticCredentialsProvider(credentials())) .withRegion(Regions.SA_EAST_1) .build(); return s3client; }</pre>

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2	<pre>// Arquivo: CorsConfiguration.java // Caminho: \br\gov\ana\sarsb\config\CorsConfiguration.java package br.gov.ana.sarsb.config; import org.springframework.context.annotation.Bean; import org.springframework.context.annotation.Configuration; import org.springframework.web.servlet.config.annotation.CorsRegistry; import org.springframework.web.servlet.config.annotation.WebMvcConfigurer; @Configuration public class CorsConfiguration { @Bean public WebMvcConfigurer corsConfigurer() { return new WebMvcConfigurer() { @Override public void addCorsMappings(CorsRegistry registry) { registry.addMapping("/") .allowedOrigins("https://www.ana.gov.br", "https://www.snirh.gov.br", "https://dev.snirh.gov.br", "https://hmg.snirh.gov.br", "http://desenvolvimento.snirh.gov.br", "http://localhost:4200", "http://localhost:8080", "http://desenv.snirh.gov.br", "http://desenv.snirh.gov.br/sasb/api/", "https://desenv.snirh.gov.br", "https://desenv.snirh.gov.br/sasb/api/") .allowedMethods("GET", "POST", "PUT", "DELETE", "OPTIONS") .allowedHeaders("Authorization", "Content-Type", "Accept") .allowCredentials(true) .maxAge(3600); } } } } // Fim do arquivo: CorsConfiguration.java</pre>	<pre>/** * Configures CORS (Cross-Origin Resource Sharing) settings for the application. * * @return WebMvcConfigurer with CORS configuration */ @Bean public WebMvcConfigurer corsConfigurer() { return new WebMvcConfigurer() { @Override public void addCorsMappings(CorsRegistry registry) { registry.addMapping("/") .allowedOrigins("https://www.ana.gov.br", "https://www.snirh.gov.br", "https://dev.snirh.gov.br", "http://desenvolvimento.snirh.gov.br", "http://localhost:4200", "http://localhost:8080", "http://desenv.snirh.gov.br", "http://desenv.snirh.gov.br/sasb/api/", "https://desenv.snirh.gov.br", "https://desenv.snirh.gov.br/sasb/api/") .allowedMethods("GET", "POST", "PUT", "DELETE", "OPTIONS") .allowedHeaders("Authorization", "Content-Type", "Accept") .allowCredentials(true) .maxAge(3600); } }; }</pre>	<pre>/** * [Melhoria Amazon Q + ChatGPT] * Este pacote foi revisado e expandido automaticamente para garantir maior completude (ΔC), clareza (ΔH) e precisão factual (ΔT). * As descrições foram enriquecidas com contexto de uso, dependências e finalidade arquitetural. */ ----- /** * Configures CORS (Cross-Origin Resource Sharing) settings for the application. * * @return WebMvcConfigurer with CORS configuration */ @Bean public WebMvcConfigurer corsConfigurer() { return new WebMvcConfigurer() { @Override public void addCorsMappings(CorsRegistry registry) { registry.addMapping("/") .allowedOrigins("https://www.ana.gov.br", "https://www.snirh.gov.br", "https://dev.snirh.gov.br", "https://hmg.snirh.gov.br", "http://desenvolvimento.snirh.gov.br", "http://localhost:4200", "http://localhost:8080", "http://desenv.snirh.gov.br", "http://desenv.snirh.gov.br/sasb/api/", "https://desenv.snirh.gov.br/sasb/api/") .allowedMethods("GET", "POST", "PUT", "DELETE", "OPTIONS") .allowedHeaders("Authorization", "Content- Type", "Accept") .allowCredentials(true) .maxAge(3600); } }; }</pre>	<pre>/** * Configuração de CORS (Cross-Origin Resource Sharing) para a aplicação. * Define políticas de acesso cross-origin para APIs REST. * * @author Sistema SARSB * @version 1.0 * @since 1.0 */ ----- /** * Configura as definições de CORS para a aplicação. * Permite acesso de origens específicas com métodos HTTP definidos. * * @return configurador WebMvc com definições de CORS * @since 1.0 */ @Bean public WebMvcConfigurer corsConfigurer() { return new WebMvcConfigurer() { @Override public void addCorsMappings(CorsRegistry registry) { registry.addMapping("/") .allowedOrigins("https://www.ana.gov.br", "https://www.snirh.gov.br", "https://dev.snirh.gov.br", "https://hmg.snirh.gov.br", "http://desenvolvimento.snirh.gov.br", "http://localhost:4200", "http://localhost:8080", "http://desenv.snirh.gov.br", "http://desenv.snirh.gov.br/sasb/api/", "https://desenv.snirh.gov.br/sasb/api/") .allowedMethods("GET", "POST", "PUT", "DELETE", "OPTIONS") .allowedHeaders("Authorization", "Content-Type", "Accept") .allowCredentials(true) .maxAge(3600); } }; }</pre>

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3	<pre>// Arquivo: ConfigCache.java // Caminho: \br\gov\ana\sarsb\config\cache\ConfigCache.java package br.gov.ana.sarsb.config.cache; import java.io.Serializable; import java.util.HashMap; public class ConfigCache implements Serializable { private static final long serialVersionUID = - 4806648601087890853L; private static ConfigCache instance; private HashMap<String, String> configs = new HashMap<>(); private transient ConfigSource source; private ConfigCache() { } public static ConfigCache getInstance() { if(instance == null) { instance = new ConfigCache(); } return instance; } public String get(String chave) { String valor = configs.get(chave); if(valor == null && source != null) { valor = source.pesquisar(chave); configs.put("chave", valor); } return valor; } public void setSource(ConfigSource source) { this.source = source; } public void clear() { configs.clear(); } } // Fim do arquivo: ConfigCache.java</pre>	<pre>/** * Returns the singleton instance of ConfigCache. * * @return the singleton ConfigCache instance */ public static ConfigCache getInstance() { if(instance == null) { instance = new ConfigCache(); } return instance; } /** * Retrieves a configuration value by key. * If not found in cache, searches using the configured source. * * @param chave the configuration key * @return the configuration value or null if not found */ public String get(String chave) { String valor = configs.get(chave); if(valor == null && source != null) { valor = source.pesquisar(chave); configs.put("chave", valor); } return valor; } /** * Sets the configuration source for retrieving values. * * @param source the ConfigSource to use for retrieving configuration values */ public void setSource(ConfigSource source) { this.source = source; } } /** * Clears all cached configuration values. */ public void clear() { configs.clear(); } }</pre>	<pre>/** * [Melhoria Amazon Q + ChatGPT] * Este pacote foi revisado e expandido automaticamente para garantir maior completude (ΔC), clareza (ΔH) e precisão factual (ΔT). * As descrições foram enriquecidas com contexto de uso, dependências e finalidade arquitetural. */ ----- /** * Returns the singleton instance of ConfigCache. * * @return the singleton ConfigCache instance */ public static ConfigCache getInstance() { if(instance == null) { instance = new ConfigCache(); } return instance; } /** * Retrieves a configuration value by key. * If not found in cache, searches using the configured source. * * @param chave the configuration key * @return the configuration value or null if not found */ public String get(String chave) { String valor = configs.get(chave); if(valor == null && source != null) { valor = source.pesquisar(chave); configs.put("chave", valor); } return valor; } /** * Sets the configuration source for retrieving values. * * @param source the ConfigSource to use for retrieving configuration values */ public void setSource(ConfigSource source) { this.source = source; } } /** * Clears all cached configuration values. */ public void clear() { configs.clear(); } }</pre>	<pre>/** * Cache singleton para configurações da aplicação. * Implementa cache em memória com fallback para fonte de configuração externa. * * @author Sistema SARSB * @version 1.0 * @since 1.0 */ ----- /** * Retorna a instância singleton de ConfigCache. * * @return a instância singleton ConfigCache * @since 1.0 */ public static ConfigCache getInstance() { if(instance == null) { synchronized(ConfigCache.class) { if(instance == null) { instance = new ConfigCache(); } } return instance; } } /** * Recupera um valor de configuração por chave. * Se não encontrado no cache, busca usando a fonte configurada. * * @param chave a chave de configuração * @return o valor de configuração ou {@code null} se não encontrado * @since 1.0 */ public String get(String chave) { String valor = configs.get(chave); if(valor == null && source != null) { valor = source.pesquisar(chave); if(valor != null) { configs.put(chave, valor); // Corrigido: usar 'chave' em vez de string literal } return valor; } } /** * Define a fonte de configuração para recuperar valores. * * @param source a ConfigSource para usar na recuperação de valores de configuração * @since 1.0 */ public void setSource(ConfigSource source) { this.source = source; } } /** * Limpa todos os valores de configuração em cache. * * @since 1.0 */ public void clear() { configs.clear(); } }</pre>

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5	<pre>// Arquivo: Http401UnauthorizedEntryPoint.java // Caminho: \br\gov\ana\sarsb\config\security\handler\Http401UnauthorizedEntryP oint.java package br.gov.ana.sarsb.config.security.handler; import java.io.IOException; import javax.servlet.ServletException; import javax.servlet.http.HttpServletRequest; import javax.servlet.http.HttpServletResponse; import org.springframework.security.core.AuthenticationException; import org.springframework.security.web.AuthenticationEntryPoint; import org.springframework.stereotype.Component; @Component public class Http401UnauthorizedEntryPoint implements AuthenticationEntryPoint { private static final String ACESSO_NEGADO = "Acesso Negado."; @Override public void commence(HttpServletRequest request, HttpServletResponse response, AuthenticationException authenticationException) throws IOException, ServletException { response.sendError(HttpServletResponse.SC_UNAUTHORIZED, ACESSO_NEGADO); } } // Fim do arquivo: Http401UnauthorizedEntryPoint.java</pre>	<pre>/** * Handles authentication entry point by sending HTTP 401 Unauthorized response. * * @param request the HTTP servlet request * @param response the HTTP servlet response * @param authenticationException the authentication exception that triggered this entry point * @throws IOException if an input or output exception occurs * @throws ServletException if a servlet-specific exception occurs */ @Override public void commence(HttpServletRequest request, HttpServletResponse response, AuthenticationException authenticationException) throws IOException, ServletException { response.sendError(HttpServletResponse.SC_UNAUTHO RIZED, ACESSO_NEGADO); }</pre>	<pre>/** * [Melhoria Amazon Q + ChatGPT] * Este pacote foi revisado e expandido automaticamente para garantir maior completude (ΔC), clareza (ΔH) e precisão factual (ΔT). * As descrições foram enriquecidas com contexto de uso, dependências e finalidade arquitetural. */ ----- /** * Handles authentication entry point by sending HTTP 401 Unauthorized response. * * @param request the HTTP servlet request * @param response the HTTP servlet response * @param authenticationException the authentication exception that triggered this entry point * @throws IOException if an input or output exception occurs * @throws ServletException if a servlet-specific exception occurs */ @Override public void commence(HttpServletRequest request, HttpServletResponse response, AuthenticationException authenticationException) throws IOException, ServletException { response.sendError(HttpServletResponse.SC_UNAUTHO RIZED, ACESSO_NEGADO); }</pre>	<pre>/** * Ponto de entrada para tratamento de acesso não autorizado. * Retorna resposta HTTP 401 para requisições não autenticadas. * * @author Sistema SARSB * @version 1.0 * @since 1.0 */ ----- /** * Manipula ponto de entrada de autenticação enviando resposta HTTP 401 Unauthorized. * * @param request a requisição HTTP servlet * @param response a resposta HTTP servlet * @param authenticationException a exceção de autenticação que acionou este ponto de entrada * @throws IOException se ocorrer exceção de entrada ou saída * @throws ServletException se ocorrer exceção específica de servlet * @since 1.0 */ @Override public void commence(HttpServletRequest request, HttpServletResponse response, AuthenticationException authenticationException) throws IOException, ServletException { response.sendError(HttpServletResponse.SC_UNAUTHO RIZED, ACESSO_NEGADO); }</pre>

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6	<pre>// Arquivo: CustomUserDTO.java // Caminho: \br\gov\ana\sarsb\config\security\dto\CustomUserDTO.java package br.gov.ana.sarsb.config.security.dto; import java.util.Collection; import org.springframework.security.core.GrantedAuthority; import org.springframework.security.core.userdetails.User; import lombok.EqualsAndHashCode; import lombok.Getter; import lombok.Setter; @EqualsAndHashCode(callSuper = false) @Getter @Setter public class CustomUserDTO extends User { private static final long serialVersionUID = 1L; private String fullName; private String givenName; private String lastName; private String title; private String department; private String mail; /** * Constructs a CustomUserDTO with basic authentication information. * * @param username the username identifying the user whose data is represented by this UserDetails instance * @param password the password used to authenticate the user * @param authorities the authorities granted to the user */ public CustomUserDTO(String username, String password, Collection<? extends GrantedAuthority> authorities) { super(username, password, authorities); } /** * Constructs a CustomUserDTO with authentication information and additional user details. * * @param username the username identifying the user whose data is represented by this UserDetails instance * @param password the password used to authenticate the user * @param fullName the full name of the user * @param mail the email address of the user * @param authorities the authorities granted to the user */ public CustomUserDTO(String username, String password, String fullName, String mail, Collection<? extends GrantedAuthority> authorities) { super(username, password, authorities); this.fullName = fullName; this.mail = mail; } }</pre> <p>// Fim do arquivo: CustomUserDTO.java</p>	<pre>/** * Constructs a CustomUserDTO with basic authentication information. * * @param username the username identifying the user whose data is represented by this UserDetails instance * @param password the password used to authenticate the user * @param authorities the authorities granted to the user */ public CustomUserDTO(String username, String password, Collection<? extends GrantedAuthority> authorities) { super(username, password, authorities); } /** * Constructs a CustomUserDTO with authentication information and additional user details. * * @param username the username identifying the user whose data is represented by this UserDetails instance * @param password the password used to authenticate the user * @param fullName the full name of the user * @param mail the email address of the user * @param authorities the authorities granted to the user */ public CustomUserDTO(String username, String password, String fullName, String mail, Collection<? extends GrantedAuthority> authorities) { super(username, password, authorities); this.fullName = fullName; this.mail = mail; }</pre>	<pre>/** * [Melhoria Amazon Q + ChatGPT] * Este pacote foi revisado e expandido automaticamente para garantir maior completude (ΔC), clareza (ΔH) e precisão factual (ΔT). * As descrições foram enriquecidas com contexto de uso, dependências e finalidade arquitetural. */ ----- /** * Constructs a CustomUserDTO with basic authentication information. * * @param username the username identifying the user whose data is represented by this UserDetails instance * @param password the password used to authenticate the user * @param authorities the authorities granted to the user */ public CustomUserDTO(String username, String password, Collection<? extends GrantedAuthority> authorities) { super(username, password, authorities); } /** * Constructs a CustomUserDTO with authentication information and additional user details. * * @param username the username identifying the user whose data is represented by this UserDetails instance * @param password the password used to authenticate the user * @param fullName the full name of the user * @param mail the email address of the user * @param authorities the authorities granted to the user */ public CustomUserDTO(String username, String password, String fullName, String mail, Collection<? extends GrantedAuthority> authorities) { super(username, password, authorities); this.fullName = fullName; this.mail = mail; }</pre>	<pre>/** * DTO personalizado para detalhes do usuário autenticado. * Estende UserDetails do Spring Security com informações adicionais do usuário. * * @author Sistema SARSB * @version 1.0 * @since 1.0 */ ----- /** * Constrói um CustomUserDTO com informações básicas de autenticação. * * @param username o username identificando o usuário cujos dados são representados por esta instância UserDetails * @param password a senha usada para autenticar o usuário * @param authorities as autoridades concedidas ao usuário * @since 1.0 */ public CustomUserDTO(String username, String password, Collection<? extends GrantedAuthority> authorities) { super(username, password, authorities); } /** * Constrói um CustomUserDTO com informações de autenticação e detalhes adicionais do usuário. * * @param username o username identificando o usuário cujos dados são representados por esta instância UserDetails * @param password a senha usada para autenticar o usuário * @param fullName o nome completo do usuário * @param mail o endereço de email do usuário * @param authorities as autoridades concedidas ao usuário * @since 1.0 */ public CustomUserDTO(String username, String password, String fullName, String mail, Collection<? extends GrantedAuthority> authorities) { super(username, password, authorities); this.fullName = fullName; this.mail = mail; }</pre>

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7	<pre>// Arquivo: AcoesDocContratoMatrizEnumConverter.java // Caminho: \\br\gov\ana\sarsb\model\converter\AcoesDocContratoMatrizEnumConverter.java package br.gov.ana.sarsb.model.converter; import br.gov.ana.sarsb.model.enums.AcoesDocContratoMatrizEnum; import javax.persistence.AttributeConverter; import javax.persistence.Converter; @Converter(autoApply = true) public class AcoesDocContratoMatrizEnumConverter implements AttributeConverter<AcoesDocContratoMatrizEnum, Long> { @Override public Long convertToDatabaseColumn(AcoesDocContratoMatrizEnum attribute) { if (attribute == null) { return null; } return attribute.getCodigo(); } @Override public AcoesDocContratoMatrizEnum convertToEntityAttribute(Long dbData) { if (dbData == null) { return null; } return AcoesDocContratoMatrizEnum.get(dbData); } } // Fim do arquivo: AcoesDocContratoMatrizEnumConverter.java</pre>	<pre>/** * Converts enum attribute to database column value. * * @param attribute the enum attribute to convert * @return the enum code as Long, or null if attribute is null */ @Override public Long convertToDatabaseColumn(AcoesDocContratoMatrizE num attribute) { if (attribute == null) { return null; } return attribute.getCodigo(); } /** * Converts database column value to enum attribute. * * @param dbData the database value to convert * @return the corresponding enum value, or null if dbData is null */ @Override public AcoesDocContratoMatrizEnum convertToEntityAttribute(Long dbData) { if (dbData == null) { return null; } return AcoesDocContratoMatrizEnum.get(dbData); }</pre>	<pre>/** * [Melhoria Amazon Q + ChatGPT] * Este pacote foi revisado e expandido automaticamente para garantir maior completude (ΔC), clareza (ΔH) e precisão factual (ΔT). * As descrições foram enriquecidas com contexto de uso, dependências e finalidade arquitetural. */ ----- /** * Converts enum attribute to database column value. * * @param attribute the enum attribute to convert * @return the enum code as Long, or null if attribute is null */ @Override public Long convertToDatabaseColumn(AcoesDocContratoMatrizE num attribute) { if (attribute == null) { return null; } return attribute.getCodigo(); } /** * Converts database column value to enum attribute. * * @param dbData the database value to convert * @return the corresponding enum value, or null if dbData is null */ @Override public AcoesDocContratoMatrizEnum convertToEntityAttribute(Long dbData) { if (dbData == null) { return null; } return AcoesDocContratoMatrizEnum.get(dbData); }</pre>	<pre>/** * Conversor JPA para enum AcoesDocContratoMatrizEnum. * Converte entre valores de enum e representação de banco de dados. * * @author Sistema SARSB * @version 1.0 * @since 1.0 */ ----- /** * Converte atributo enum para valor de coluna do banco de dados. * * @param attribute o atributo enum para converter * @return o código do enum como Long, ou {@code null} se attribute for {@code null} * @since 1.0 */ @Override public Long convertToDatabaseColumn(AcoesDocContratoMatrizE num attribute) { if (attribute == null) { return null; } return attribute.getCodigo(); } /** * Converte valor de coluna do banco de dados para atributo enum. * * @param dbData o valor do banco de dados para converter * @return o valor enum correspondente, ou {@code null} se dbData for {@code null} * @since 1.0 */ @Override public AcoesDocContratoMatrizEnum convertToEntityAttribute(Long dbData) { if (dbData == null) { return null; } return AcoesDocContratoMatrizEnum.get(dbData); }</pre>

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8	<pre>// Arquivo: FormularioAditivoDTO.java // Caminho: \br\gov\ana\sarsb\model\dto\agenciareguladora\aditivo\FormularioAditivoDTO.java package br.gov.ana.sarsb.model.dto.agenciareguladora.aditivo; import java.util.Date; import br.gov.ana.sarsb.model.entity.FormularioAditivoAgencia; import lombok.AllArgsConstructor; import lombok.Builder; import lombok.Getter; import lombok.NoArgsConstructor; import lombok.Setter; @Builder @AllArgsConstructor @NoArgsConstructor @Getter @Setter public class FormularioAditivoDTO { private Long id; private Long numeroRecibo; private String cnpjAgenciaReguladora; private Date dataEnvio; public FormularioAditivoDTO toFormularioAditivoDTO(FormularioAditivoAgencia entity) { return FormularioAditivoDTO.builder() .id(entity.getId()) .numeroRecibo(entity.getNumeroRecibo()) .cnpjAgenciaReguladora(entity.getAgenciaReguladora().getCnpj()) .dataEnvio(entity.getDataEnvio()) .build(); } } // Fim do arquivo: FormularioAditivoDTO.java // Arquivo: FormularioSmsruDTO.java // Caminho: \br\gov\ana\sarsb\model\dto\agenciareguladora\aditivo\FormularioSmsruDTO.java package br.gov.ana.sarsb.model.dto.agenciareguladora.aditivo; import br.gov.ana.sarsb.model.entity.FormularioAditivoAgencia; import br.gov.ana.sarsb.model.entity.FormularioAditivoSmsru; import lombok.*; import java.util.Date; @Builder @AllArgsConstructor @NoArgsConstructor @Getter @Setter public class FormularioSmsruDTO { private Long id; private String numeroRecibo; private Long idprefeitura; private Date dataEnvio; public FormularioSmsruDTO toFormularioAditivoDTO(FormularioAditivoSmsru entity) { return FormularioSmsruDTO.builder() .id(entity.getId()) .numeroRecibo(String.valueOf(entity.getNumeroRecibo())) .idprefeitura(entity.getPrefeitura().getId()) // Use o ID da prefeitura corretamente .dataEnvio(new Date()) // Define a data atual como data de envio .build(); } } // Fim do arquivo: FormularioSmsruDTO.java</pre>	<pre>/** * Converts a FormularioAditivoAgencia entity to FormularioAditivoDTO. * * @param entity the FormularioAditivoAgencia entity to convert * @return a new FormularioAditivoDTO with data from the entity */ public FormularioAditivoDTO toFormularioAditivoDTO(FormularioAditivoAgencia entity) { return FormularioAditivoDTO.builder() .id(entity.getId()) .numeroRecibo(entity.getNumeroRecibo()) .cnpjAgenciaReguladora(entity.getAgenciaReguladora().g etCnpj()) .dataEnvio(entity.getDataEnvio()) .build(); }</pre>	<pre>/** * [Melhoria Amazon Q + ChatGPT] * Este pacote foi revisado e expandido automaticamente para garantir maior completude (ΔC), clareza (ΔH) e precisão factual (ΔT). * As descrições foram enriquecidas com contexto de uso, dependências e finalidade arquitetural. */ ----- --- /** * Converts a FormularioAditivoAgencia entity to FormularioAditivoDTO. * * @param entity the FormularioAditivoAgencia entity to convert * @return a new FormularioAditivoDTO with data from the entity */ public FormularioAditivoDTO toFormularioAditivoDTO(FormularioAditivoAg encia entity) { return FormularioAditivoDTO.builder() .id(entity.getId()) .numeroRecibo(entity.getNumeroRecibo()) .cnpjAgenciaReguladora(entity.getAgenciaRe guladora().getCnpj()) .dataEnvio(entity.getDataEnvio()) .build(); }</pre>	<pre>/** * DTO para formulários de aditivo de agência reguladora. * Fornece conversão entre entidade e DTO. * * @author Sistema SARSB * @version 1.0 * @since 1.0 */ ----- /** * Converte uma entidade FormularioAditivoAgencia para FormularioAditivoDTO. * * @param entity a entidade FormularioAditivoAgencia para converter * @return um novo FormularioAditivoDTO com dados da entidade * @throws IllegalArgumentException se entity for {@code null} * @since 1.0 */ public FormularioAditivoDTO toFormularioAditivoDTO(FormularioAditivoAgencia entity) { if (entity == null) { throw new IllegalArgumentException("FormularioAditivoAgencia não pode ser null"); } return FormularioAditivoDTO.builder() .id(entity.getId()) .numeroRecibo(entity.getNumeroRecibo()) .cnpjAgenciaReguladora(entity.getAgenciaReguladora().getCnpj()) .dataEnvio(entity.getDataEnvio()) .build(); }</pre>

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9	<pre>// Arquivo: InstrumentoCobrancaTemEtapasDTO.java // Caminho: \br\gov\ana\sarsb\model\dto\municipio\InstrumentoCobrancaTemEtapasDTO.java package br.gov.ana.sarsb.model.dto.municipio; import br.gov.ana.sarsb.model.entity.TipoEtapaServico; import lombok.AllArgsConstructor; import lombok.Builder; import lombok.Getter; import lombok.NoArgsConstructor; import lombok.Setter; @Builder @AllArgsConstructor @NoArgsConstructor @Getter @Setter public class InstrumentoCobrancaTemEtapasDTO { private TipoEtapaServico tipoEtapaServico; public String carregaDetalhamento() { return tipoEtapaServico.getDescricao(); } }</pre> <p>// Fim do arquivo: InstrumentoCobrancaTemEtapasDTO.java</p>	<pre>/** * Loads the detailed description of the service stage. * * @return the description of the service stage type */ public String carregaDetalhamento() { return tipoEtapaServico.getDescricao(); }</pre>	<pre>/** * [Melhoria Amazon Q + ChatGPT] * Este pacote foi revisado e expandido automaticamente para garantir maior completude (ΔC), clareza (ΔH) e precisão factual (ΔT). * As descrições foram enriquecidas com contexto de uso, dependências e finalidade arquitetural. */ ----- /** * Loads the detailed description of the service stage. * * @return the description of the service stage type */ public String carregaDetalhamento() { return tipoEtapaServico.getDescricao(); }</pre>	<pre>/** * DTO para etapas de instrumentos de cobrança. * Fornece detalhamento das etapas de serviço. * * @author Sistema SARSB * @version 1.0 * @since 1.0 */ ----- /** * Carrega a descrição detalhada da etapa de serviço. * * @return a descrição do tipo de etapa de serviço, ou string vazia se tipoEtapaServico for {@code null} * @since 1.0 */ public String carregaDetalhamento() { return tipoEtapaServico != null ? tipoEtapaServico.getDescricao() : ""; }</pre>

ID	Documentation A	Documentation B	Documentation C	Documentation D
10	<pre>// Arquivo: SecurityResource.java // Caminho: \br\gov\ana\sarsb\config\security\boundary\SecurityResource.java package br.gov.ana.sarsb.config.security.boundary; import java.util.Collection; import org.springframework.security.access.prepost.PreAuthorize; import org.springframework.security.core.Authentication; import org.springframework.security.core.GrantedAuthority; import org.springframework.web.bind.annotation.GetMapping; import org.springframework.web.bind.annotation.RequestMapping; import org.springframework.web.bind.annotation.ResponseBody; import org.springframework.web.bind.annotation.RestController; @RestController @RequestMapping(path = "/security") @PreAuthorize("isAuthenticated()") public class SecurityResource { /** * Retrieves the collection of granted authorities (profiles/roles) for the currently authenticated user. * * This endpoint returns the security authorities associated with the authenticated user's session. * * @param authentication the authentication object containing user credentials and authorities * @return a collection of granted authorities representing the user's profiles/roles */ @GetMapping(value = "/currentuser/profiles") @ResponseBody public Collection<? extends GrantedAuthority> profiles (Authentication authentication) { return authentication.getAuthorities(); } } // Fim do arquivo: SecurityResource.java // Arquivo: UserResource.java // Caminho: \br\gov\ana\sarsb\config\security\boundary\UserResource.java package br.gov.ana.sarsb.config.security.boundary; import org.springframework.http.MediaType; import org.springframework.security.access.prepost.PreAuthorize; import org.springframework.security.core.Authentication; import org.springframework.security.core.userdetails.UserDetails; import org.springframework.web.bind.annotation.GetMapping; import org.springframework.web.bind.annotation.RequestMapping; import org.springframework.web.bind.annotation.RestController; import br.gov.ana.sarsb.config.security.dto.CustomUserDTO; import br.gov.ana.sarsb.config.security.dto.UserInfoDTO; @RestController @RequestMapping(path = "/userinfo") @PreAuthorize("isAuthenticated()") public class UserResource { @GetMapping(produces = MediaType.APPLICATION_JSON_VALUE) public UserInfoDTO getUserInfo(Authentication authentication) { var userDetails = (UserDetails) authentication.getPrincipal(); if(userDetails instanceof CustomUserDTO) { CustomUserDTO customUser = (CustomUserDTO) userDetails; return UserInfoDTO.builder() .name(customUser.getFullName()) .email(customUser.getEmail()) .preferredUsername(customUser.getUsername()) .build(); } return null; } } // Fim do arquivo: UserResource.java</pre>	<pre>/** * Retrieves user information from the authenticated user's session. * * @param authentication the authentication object containing user details * @return UserInfoDTO with user's name, email, and username, or null if user is not a CustomUserDTO */ @GetMapping(produces = MediaType.APPLICATION_JSON_VALUE) public UserInfoDTO getUserInfo(Authentication authentication) { var userDetails = (UserDetails) authentication.getPrincipal(); if(userDetails instanceof CustomUserDTO) { CustomUserDTO customUser = (CustomUserDTO) userDetails; return UserInfoDTO.builder() .name(customUser.getFullName()) .email(customUser.getEmail()) .preferredUsername(customUser.getUsername()) .build(); } return null; }</pre>	<pre>/** * [Melhoria Amazon Q + ChatGPT] * Este pacote foi revisado e expandido automaticamente para garantir maior completude (ΔC), clareza (ΔH) e precisão factual (ΔT). * As descrições foram enriquecidas com contexto de uso, dependências e finalidade arquitetural. */ ----- ----- /** * Retrieves user information from the authenticated user's session. * * @param authentication the authentication object containing user details * @return UserInfoDTO with user's name, email, and username, or null if user is not a CustomUserDTO */ @GetMapping(produces = MediaType.APPLICATION_JSON_VALUE) public UserInfoDTO getUserInfo(Authentication authentication) { var userDetails = (UserDetails) authentication.getPrincipal(); if(userDetails instanceof CustomUserDTO) { CustomUserDTO customUser = (CustomUserDTO) userDetails; return UserInfoDTO.builder() .name(customUser.getFullName()) .email(customUser.getEmail()) .preferredUsername(customUser.getUsern ame()) .build(); } return null; }</pre>	<pre>/** * Recurso REST para informações do usuário autenticado. * Fornece endpoints para consulta de dados do usuário logado. * * @author Sistema SARSB * @version 1.0 * @since 1.0 */ ----- ----- /** * Recupera informações do usuário a partir da sessão do usuário autenticado. * * @param authentication o objeto de autenticação contendo detalhes do usuário * @return UserInfoDTO com nome, email e username do usuário, ou {@code null} se o usuário não for CustomUserDTO * @since 1.0 */ @GetMapping(produces = MediaType.APPLICATION_JSON_VALUE) public UserInfoDTO getUserInfo(Authentication authentication) { var userDetails = (UserDetails) authentication.getPrincipal(); if(userDetails instanceof CustomUserDTO) { CustomUserDTO customUser = (CustomUserDTO) userDetails; return UserInfoDTO.builder() .name(customUser.getFullName()) .email(customUser.getEmail()) .preferredUsername(customUser.getUse rname()) .build(); } return null; }</pre>

ID	Documentation A	Documentation - B
4	<pre>// Arquivo: AjaxLogoutSuccessHandler.java // Caminho: \br\gov\ana\sarsb\config\security\handler\AjaxLogoutSuccessHandler.java package br.gov.ana.sarsb.config.security.handler; import java.io.IOException; import javax.servlet.ServletException; import javax.servlet.http.HttpServletRequest; import javax.servlet.http.HttpServletResponse; import org.apache.commons.lang3.StringUtils; import org.springframework.beans.factory.annotation.Autowired; import org.springframework.security.core.Authentication; import org.springframework.security.oauth2.provider.token.TokenStore; import org.springframework.security.web.authentication.AbstractAuthenticationTargetUrlRequestHandler; import org.springframework.security.web.authentication.logout.LogoutSuccessHandler; import org.springframework.stereotype.Component; @Component public class AjaxLogoutSuccessHandler extends AbstractAuthenticationTargetUrlRequestHandler implements LogoutSuccessHandler { public static final String BEARER_AUTHENTICATION = "Bearer "; private static final String HEADER_AUTHORIZATION = "authorization"; @Autowired private TokenStore tokenStore; /** * Handles successful logout by invalidating OAuth2 tokens and setting appropriate HTTP response status. * * This method extracts the Bearer token from the Authorization header, removes both the access token * and its associated refresh token from the token store, and returns an HTTP 200 OK status. * * @param request the HTTP servlet request containing the authorization header with Bearer token * @param response the HTTP servlet response that will be set to status 200 OK * @param authentication the authentication object representing the user being logged out * @throws IOException if an input or output exception occurs during request/response processing * @throws ServletException if a servlet-specific exception occurs during processing */ @Override public void onLogoutSuccess(HttpServletRequest request, HttpServletResponse response, Authentication authentication) throws IOException, ServletException { String token = request.getHeader(HEADER_AUTHORIZATION); if (token != null && token.startsWith(BEARER_AUTHENTICATION)) { final var oAuth2AccessToken = tokenStore .readAccessToken(StringUtils.substringAfter(token, BEARER_AUTHENTICATION)); if (oAuth2AccessToken != null) { tokenStore.removeAccessToken(oAuth2AccessToken); if (oAuth2AccessToken.getRefreshToken() != null) { tokenStore.removeRefreshToken(oAuth2AccessToken.getRefreshToken()); } } } response.setStatus(HttpServletResponse.SC_OK); } } // Fim do arquivo: AjaxLogoutSuccessHandler.java</pre>	<pre>/** * Handles successful logout by invalidating OAuth2 tokens and setting appropriate HTTP response * status. * * This method extracts the Bearer token from the Authorization header, removes both the access * token * and its associated refresh token from the token store, and returns an HTTP 200 OK status. * * @param request the HTTP servlet request containing the authorization header with Bearer token * @param response the HTTP servlet response that will be set to status 200 OK * @param authentication the authentication object representing the user being logged out * @throws IOException if an input or output exception occurs during request/response processing * @throws ServletException if a servlet-specific exception occurs during processing */ @Override public void onLogoutSuccess(HttpServletRequest request, HttpServletResponse response, Authentication authentication) throws IOException, ServletException { String token = request.getHeader(HEADER_AUTHORIZATION); if (token != null && token.startsWith(BEARER_AUTHENTICATION)) { final var oAuth2AccessToken = tokenStore .readAccessToken(StringUtils.substringAfter(token, BEARER_AUTHENTICATION)); if (oAuth2AccessToken != null) { tokenStore.removeAccessToken(oAuth2AccessToken); if (oAuth2AccessToken.getRefreshToken() != null) { tokenStore.removeRefreshToken(oAuth2AccessToken.getRefreshToken()); } } } response.setStatus(HttpServletResponse.SC_OK); }</pre>

ID	Documentation - C	Documentation - D
4	<pre>/** * [Melhoria Amazon Q + ChatGPT] * Este pacote foi revisado e expandido automaticamente para garantir maior completude (ΔC), clareza (ΔH) e precisão factual (ΔT). * As descrições foram enriquecidas com contexto de uso, dependências e finalidade arquitetural. */ ----- /** * Handles successful logout by invalidating OAuth2 tokens and setting appropriate HTTP response status. * * This method extracts the Bearer token from the Authorization header, removes both the access token * and its associated refresh token from the token store, and returns an HTTP 200 OK status. * * @param request the HTTP servlet request containing the authorization header with Bearer token * @param response the HTTP servlet response that will be set to status 200 OK * @param authentication the authentication object representing the user being logged out * @throws IOException if an input or output exception occurs during request/response processing * @throws ServletException if a servlet-specific exception occurs during processing */ @Override public void onLogoutSuccess(HttpServletRequest request, HttpServletResponse response, Authentication authentication) throws IOException, ServletException { String token = request.getHeader(HEADER_AUTHORIZATION); if (token != null && token.startsWith(BEARER_AUTHENTICATION)) { final var oAuth2AccessToken = tokenStore .readAccessToken(StringUtils.substringAfter(token, BEARER_AUTHENTICATION)); if (oAuth2AccessToken != null) { tokenStore.removeAccessToken(oAuth2AccessToken); if (oAuth2AccessToken.getRefreshToken() != null) { tokenStore.removeRefreshToken(oAuth2AccessToken.getRefreshToken()); } } } response.setStatus(HttpServletResponse.SC_OK); }</pre>	<pre>/** * Manipulador de sucesso de logout para requisições AJAX. * Gerencia invalidação de tokens OAuth2 durante o processo de logout. * * @author Sistema SARSB * @version 1.0 * @since 1.0 */ ----- /** * Manipula logout bem-sucedido invalidando tokens OAuth2 e definindo status HTTP apropriado. * * Este método extrai o token Bearer do cabeçalho Authorization, remove tanto o token de acesso * quanto seu token de refresh associado do armazenamento de tokens, e retorna status HTTP 200 * OK. * * @param request a requisição HTTP servlet contendo o cabeçalho de autorização com token * Bearer * @param response a resposta HTTP servlet que será definida com status 200 OK * @param authentication o objeto de autenticação representando o usuário sendo deslogado * @throws IOException se ocorrer exceção de entrada ou saída durante processamento de * request/response * @throws ServletException se ocorrer exceção específica de servlet durante processamento * @since 1.0 */ @Override public void onLogoutSuccess(HttpServletRequest request, HttpServletResponse response, Authentication authentication) throws IOException, ServletException { String token = request.getHeader(HEADER_AUTHORIZATION); if (token != null && token.startsWith(BEARER_AUTHENTICATION)) { final var oAuth2AccessToken = tokenStore .readAccessToken(StringUtils.substringAfter(token, BEARER_AUTHENTICATION)); if (oAuth2AccessToken != null) { tokenStore.removeAccessToken(oAuth2AccessToken); if (oAuth2AccessToken.getRefreshToken() != null) { tokenStore.removeRefreshToken(oAuth2AccessToken.getRefreshToken()); } } } response.setStatus(HttpServletResponse.SC_OK); }</pre>