

BunService
- modelMapper: ModelMapper - storageService: FileSystemStorageService - bunRepository: BunRepository
+ createBun(bunDTO): Bun + getAllBuns: [Bun] + getBunById(id): Bun + updateBun(id, bunDTO): Bun + updateBunPicture(id, pictureFile): Bun + deleteBunById(id) + deleteBunPicture(filename)

NewsItemService
- modelMapper: ModelMapper - storageService: FileSystemStorageService - newsItemRepository: NewsItemRepository
+ createNewsItem(newsItemDTO): NewsItem + getAllNewsItems: [NewsItem] + getNewsItemById(id): NewsItem + updateNewsItem(id, newsItemDTO): NewsItem + updateNewsItemPicture(id, pictureFile): NewsItem + deleteNewsItemById(id) + deleteNewsItemPicture(filename)

LoafService
- modelMapper: ModelMapper - storageService: FileSystemStorageService - loafRepository: LoafRepository
+ createLoaf(loafDTO): Loaf + getAllLoafs: [Loaf] + getLoafById(id): Loaf + updateLoaf(id, loafDTO): Loaf + updateLoafPicture(id, pictureFile): Loaf + deleteLoafById(id) + deleteLoafPicture(filename)

ApplicationUserService
- userRepository: UserRepository - jwtTokenProvider: JwtTokenProvider - passwordEncoder: PasswordEncoder - authenticationManager: AuthenticationManager - minPasswordLength: int
+ createUser(applicationUser): ApplicationUser + getAllUsers: [ApplicationUser] + getUserById(id): ApplicationUser + getUserByUsername(username): ApplicationUser + login(username, password): string + whoAmI(httpRequest): ApplicationUser + isValidUsername(username): boolean

IngredientService
- modelMapper: ModelMapper - ingredientRepository: IngredientRepository
+ createIngredient(ingredient): Ingredient + getAllIngredients: [Ingredient] + getIngredientById(id): Ingredient + updateIngredient(id, ingredient): Ingredient + deleteIngredientById(id)

FileSystemStorageService
- STORAGELOCATION: string = "upload-dir" - DIGESTMETHOD: string = "md5" - ALLOWEDFILEEXTENSIONS: List<String> = [".jpg", ".png"] - ROOTLOCATION: Path
+ store(file): string + load(filename: Path) + loadAsResource(filename) Resource + delete(filename) + deleteAll + init

