



OUR FINAL PROJECT!



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WHAT DOES HARD WORK LOOK LIKE?

- 4019 lines of code, written in 10 days
- 92 Java classes and interfaces
- 14 database entities
- 45 endpoints
- Some sleepless nights (* *no exact statistic records available*)



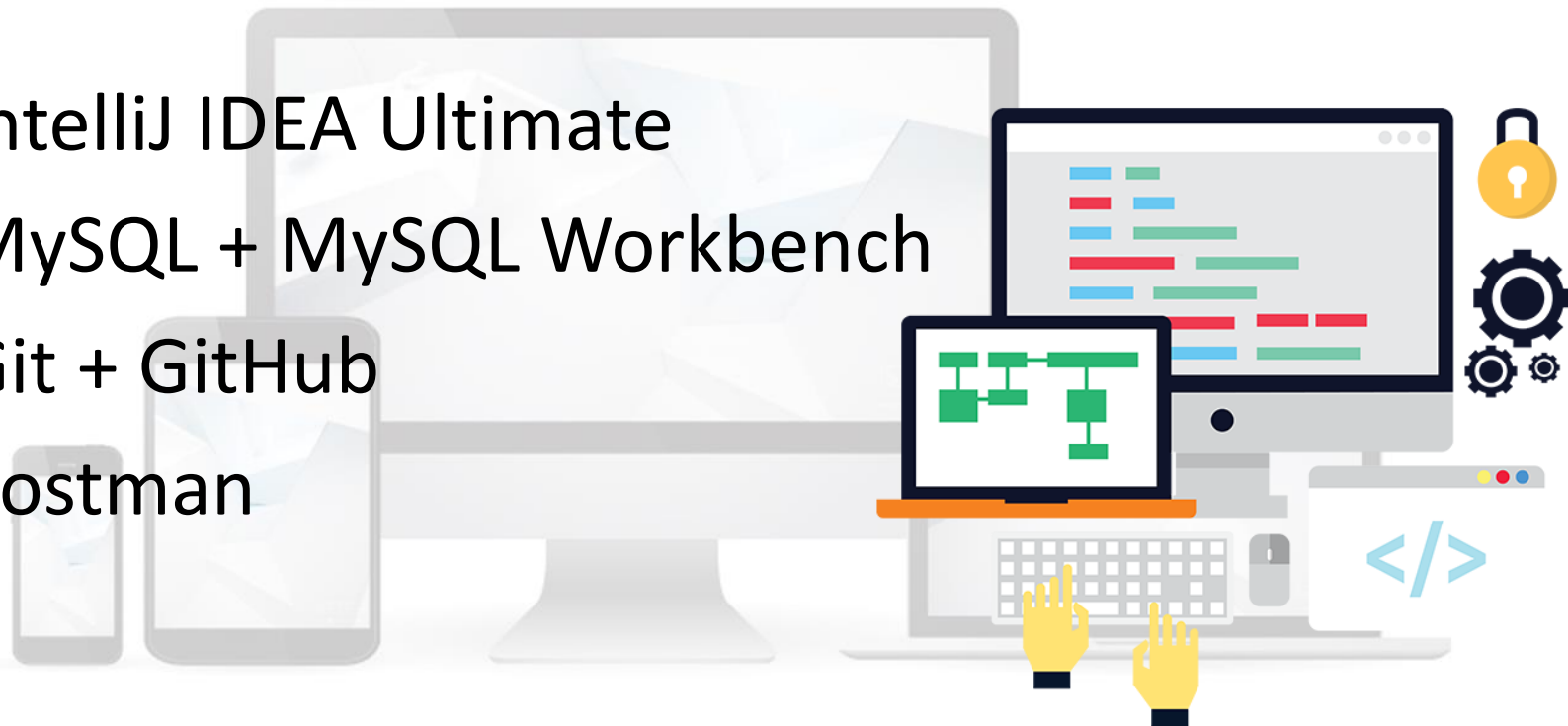
THE TECHNOLOGIES WE HAVE USED

- Java 17
- Hibernate
- Maven
- Spring Boot



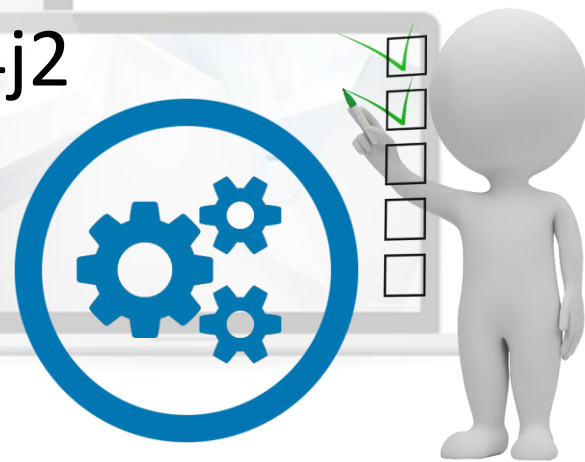
THE SOFTWARE WE HAVE USED

- IntelliJ IDEA Ultimate
- MySQL + MySQL Workbench
- Git + GitHub
- Postman



THE APIs WE HAVE USED

- Lombok
- Spring Data
- Spring Validation
- Spring Security
- Commons IO
- ModelMapper
- Java Mail Sender
- Log4j2



OUR SPRING MVC CONTROLLER

▼ controllers

- CategoryController
- CharacteristicController
- DiscountController
- GeneralController
- MediaController
- OrderController
- ProductController
- ReviewController
- ShoppingCartController
- SubcategoryController
- UserController

▼ services

- AbstractService
- CategoryService
- CharacteristicService
- DiscountService
- MediaService
- OrderService
- ProductService
- ReviewService
- ShoppingCartService
- SubcategoryService
- UserService

OUR SPRING MVC MODEL

▼ entities

- Category
- Characteristic
- Discount
- Order
- Product
- ProductCharacteristic
- ProductCharacteristicKey
- ProductImage

ProductImageKey

- Review
- SearchHistory
- SearchHistoryKey
- ShoppingCart
- ShoppingCartKey
- Subcategory
- User

▼ repositories

- CategoryRepository
- CharacteristicRepository
- DiscountRepository
- OrderRepository
- ProductCharacteristicRepository
- ProductImageRepository
- ProductRepository
- ReviewRepository
- SearchHistoryRepository
- ShoppingCartRepository
- SubcategoryRepository
- UserRepository

OUR DTOs

▼ DTOs

- ⦿ AddCategoryDTO
- ⦿ AddDiscountDTO
- ⦿ AddNewCharacteristicDTO
- ⦿ AddOrderDTO
- ⦿ AddProductDTO
- ⦿ AddReviewDTO
- ⦿ AddSubcategoryDTO
- ⦿ AddToShoppingCartDTO
- ⦿ CategoryWithNameIdDTO
- ⦿ ChangePasswordDTO
- ⦿ CharacteristicWithValuesDTO
- ⦿ ErrorDTO
- ⦿ NewDiscountDTO
- ⦿ ProductFilteringDTO
- ⦿ ProductForImagesDTO
- ⦿ ProductImageDTO
- ⦿ ProductWithIdNameDTO
- ⦿ ProductWithIdOnlyDTO
- ⦿ RemoveFromCartDTO
- ⦿ ReviewWithoutProductDTO
- ⦿ SearchedProductDTO
- ⦿ SimpleCategoryDTO
- ⦿ SimpleOrderDTO
- ⦿ SimpleProductCharacteristicDTO
- ⦿ SimpleProductDTO
- ⦿ SimpleReviewDTO
- ⦿ SimpleShoppingCartDTO
- ⦿ SimpleSubcategoryDTO
- ⦿ SubcategoryWithNameIdDTO
- ⦿ userEmailDTO
- ⦿ UserFavouritesDTO
- ⦿ UserLoginDTO
- ⦿ UserRegisterDTO
- ⦿ UserWithIdNameDTO
- ⦿ UserWithoutPasswordDTO
- ⦿ UserWithPassDTO

OUR EXCEPTION HANDLING & GLOBAL APP HANDLING

▼ exceptions

BadRequestException

FileNotFoundException

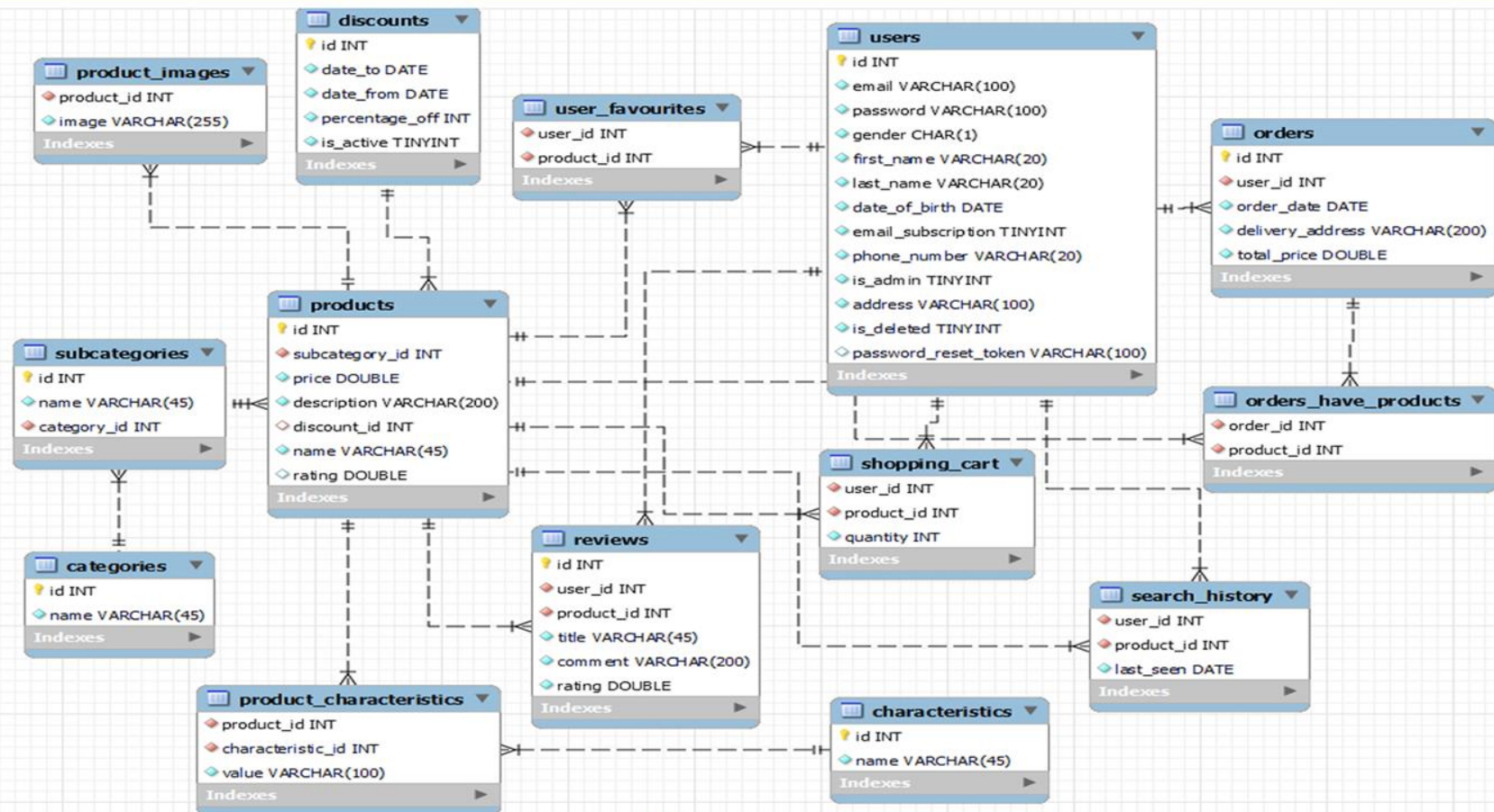
UnauthorizedException

GlobalHandler

Logger

TechnomarketProjectApplication

OUR DATABASE



OUR WEB API DOCUMENTATION

✓ categories

- POST add new category
- DEL delete category
- GET show category
- GET show all categories

✓ orders

- POST place new order
- DEL cancel order
- GET show specific order
- GET show orders of a user

✓ products

- POST add new product
- DEL delete product
- GET show product
- GET search products by name
- POST filter products

✓ reviews

- POST add new review
- DEL delete review
- GET show specific review
- GET show reviews of a user
- GET show reviews of a product

✓ shopping carts

- POST add product to cart
- POST remove product from cart
- GET show the cart of a user

✓ subcategories

- POST add new subcategory
- DEL delete subcategory
- GET show subcategory
- GET show all subcategories

✓ users

- POST login
- POST register
- POST delete user
- POST change password
- PUT update profile
- GET view browsing history
- GET view profile
- GET show user favourites
- POST add/remove product to/from user favourites
- GET logout
- POST forgot password
- GET reset password

✓ characteristics

- POST add new characteristic
- DEL delete characteristic

✓ discounts

- POST add new discount
- POST set discount inactive

✓ media

- POST upload product image
- GET download product image
- DEL delete product image
- DEL delete all product images





**NOW IT'S TIME FOR A
DEMONSTRATION!**