

פיתוח מערכות צד שרת בסביבת קוד פתוח
תשפ"ב סמסטר קיץ 2022

שם המרצה: נתן דילברי

שמות המגישים: נועה וטורי 315472464

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אלגוריתמים וספריות בהם השתמשנו:

MongoDB

Swagger UI

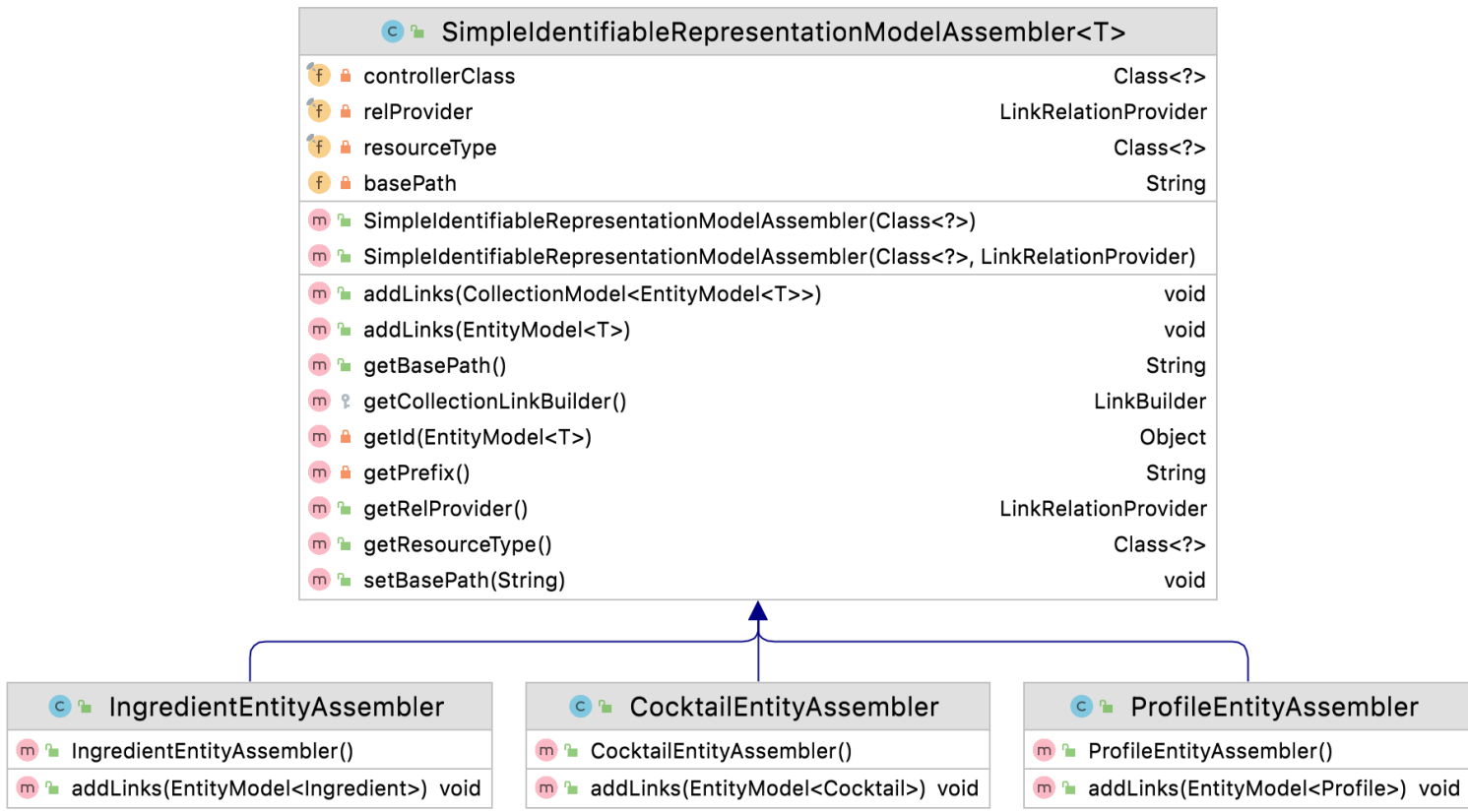
Spring HATEOAS

@ManyToMany

UML

| CocktailAPIClass | |
|----------------------------|---------|
| strDrink | String |
| idDrink | String |
| stringredient1 | String |
| stringredient2 | String |
| stringredient3 | String |
| stringredient4 | String |
| stringredient5 | String |
| stringredient6 | String |
| stringredient7 | String |
| stringredient8 | String |
| stringredient9 | String |
| stringredient10 | String |
| stringredient11 | String |
| stringredient12 | String |
| stringredient13 | String |
| stringredient14 | String |
| stringredient15 | String |
| strInstructions | String |
| CocktailAPIClass() | |
| canEqual(Object) | boolean |
| equals(Object) | boolean |
| getIdDrink() | String |
| getStrDrink() | String |
| getStringredient1() | String |
| getStringredient10() | String |
| getStringredient11() | String |
| getStringredient12() | String |
| getStringredient13() | String |
| getStringredient14() | String |
| getStringredient15() | String |
| getStringredient2() | String |
| getStringredient3() | String |
| getStringredient4() | String |
| getStringredient5() | String |
| getStringredient6() | String |
| getStringredient7() | String |
| getStringredient8() | String |
| getStringredient9() | String |
| getStrInstructions() | String |
| hashCode() | int |
| setIdDrink(String) | void |
| setStrDrink(String) | void |
| setStringredient1(String) | void |
| setStringredient10(String) | void |
| setStringredient11(String) | void |
| setStringredient12(String) | void |
| setStringredient13(String) | void |
| setStringredient14(String) | void |
| setStringredient15(String) | void |
| setStringredient2(String) | void |
| setStringredient3(String) | void |
| setStringredient4(String) | void |
| setStringredient5(String) | void |
| setStringredient6(String) | void |
| setStringredient7(String) | void |
| setStringredient8(String) | void |
| setStringredient9(String) | void |
| setStrInstructions(String) | void |
| toString() | String |

| Profile | |
|--------------------------------------|----------------|
| id | String |
| name | String |
| password | byte[] |
| salt | byte[] |
| cocktailArrayList | List<Cocktail> |
| Profile() | |
| Profile(String, byte[], byte[]) | |
| canEqual(Object) | boolean |
| equals(Object) | boolean |
| getCocktailArrayList() | List<Cocktail> |
| getId() | String |
| getName() | String |
| getPassword() | byte[] |
| getSalt() | byte[] |
| hashCode() | int |
| setCocktailArrayList(List<Cocktail>) | void |
| setId(String) | void |
| setName(String) | void |
| setPassword(byte[]) | void |
| setSalt(byte[]) | void |
| toString() | String |



| Cocktail | |
|-------------------------------------|------------------|
| id | String |
| Instructions | String |
| name | String |
| ingredientList | List<Ingredient> |
| Cocktail() | |
| Cocktail(String, List<Ingredient>) | |
| canEqual(Object) | boolean |
| equals(Object) | boolean |
| getId() | String |
| getIngredientList() | List<Ingredient> |
| getInstructions() | String |
| getName() | String |
| hashCode() | int |
| setId(String) | void |
| setIngredientList(List<Ingredient>) | void |
| setInstructions(String) | void |
| setName(String) | void |
| toString() | String |

| Ingredient | |
|---------------------------------|----------------|
| id | String |
| kind | String |
| name | String |
| cocktailList | List<Cocktail> |
| Ingredient() | |
| Ingredient(String, String) | |
| canEqual(Object) | boolean |
| equals(Object) | boolean |
| getCocktailList() | List<Cocktail> |
| getId() | String |
| getKind() | String |
| getName() | String |
| hashCode() | int |
| setCocktailList(List<Cocktail>) | void |
| setId(String) | void |
| setKind(String) | void |
| setName(String) | void |
| toString() | String |

| CocktailController | |
|---|--|
| cocktailRepo | CocktailRepo |
| ingredientRepo | IngredientRepo |
| profileRepo | ProfileRepo |
| userService | UserService |
| cocktailEntityAssembler | CocktailEntityAssembler |
| asyncCommandsLogger | Logger |
| CocktailController(CocktailRepo, IngredientRepo, ProfileRepo, UserService, CocktailEntityAssembler) | |
| addCocktail(Cocktail) | ResponseEntity<EntityModel<Cocktail>> |
| deleteAllCocktail() | ResponseEntity<String> |
| deleteCocktail(String) | ResponseEntity<String> |
| getAllCocktails() | ResponseEntity<CollectionModel<EntityModel<Cocktail>>> |
| getAllMainCocktail() | ResponseEntity<List<String>>> |
| getCocktailByld(String) | ResponseEntity<EntityModel<Cocktail>> |
| getCocktailByPersonNameAndIngredientName(String, String) | ResponseEntity<CollectionModel<EntityModel<Cocktail>>> |
| postCocktailByName(String, String) | ResponseEntity<CollectionModel<EntityModel<Cocktail>>> |

| ProfileController | |
|---|---|
| profileRepo | ProfileRepo |
| profileEntityAssembler | ProfileEntityAssembler |
| profileDtoAssembler | ProfileDtoAssembler |
| asyncCommandsLogger | Logger |
| ProfileController(ProfileRepo, ProfileEntityAssembler, ProfileDtoAssembler) | |
| addProfile(ProfileCred) | ResponseEntity<EntityModel<ProfileDTO>> |
| deleteAllProfile() | ResponseEntity<String> |
| deleteProfile(String) | ResponseEntity<String> |
| enterProfile(ProfileCred) | ResponseEntity<EntityModel<ProfileDTO>> |
| getAllProfile() | ResponseEntity<CollectionModel<EntityModel<Profile>>> |
| getProfileById(String) | ResponseEntity<EntityModel<Profile>> |
| getProfileByName(String) | ResponseEntity<EntityModel<Profile>> |
| updateProfile(String, Profile) | ResponseEntity<EntityModel<Profile>> |

| ProfileLoggedCreds | |
|------------------------------------|---------|
| password | byte[] |
| salt | byte[] |
| ProfileLoggedCreds(byte[], byte[]) | |
| canEqual(Object) | boolean |
| equals(Object) | boolean |
| getPassword() | byte[] |
| getSalt() | byte[] |
| hashCode() | int |
| setPassword(byte[]) | void |
| setSalt(byte[]) | void |
| toString() | String |

| CocktailsNames | |
|------------------|------------------|
| Mojito | |
| Whiskey_Sour | |
| Old_Fashioned | |
| Dry_Martini | |
| Long_Island_Tea | |
| Negroni | |
| Daiquiri | |
| Margarita | |
| CocktailsNames() | |
| valueOf(String) | CocktailsNames |
| values() | CocktailsNames[] |

| ProfileCred | |
|-----------------------------|---------|
| name | String |
| password | String |
| ProfileCred(String, String) | |
| canEqual(Object) | boolean |
| equals(Object) | boolean |
| getName() | String |
| getPassword() | String |
| hashCode() | int |
| setName(String) | void |
| setPassword(String) | void |
| toString() | String |

| IngredientController | |
|---|--|
| ingredientRepo | IngredientRepo |
| ingredientEntityAssembler | IngredientEntityAssembler |
| asyncCommandsLogger | Logger |
| IngredientController(IngredientRepo, IngredientEntityAssembler) | |
| deleteAllIngredient() | ResponseEntity<String> |
| deleteIngredient(String) | ResponseEntity<String> |
| getAllIngredient() | ResponseEntity<CollectionModel<EntityModel<Ingredient>>> |
| getIngredientByld(String) | ResponseEntity<EntityModel<Ingredient>> |

| IngredientKindAPI | |
|--|------------------------------|
| ingredients | List<IngredientKindAPIClass> |
| IngredientKindAPI() | |
| canEqual(Object) | boolean |
| equals(Object) | boolean |
| getIngredients() | List<IngredientKindAPIClass> |
| hashCode() | int |
| setIngredients(List<IngredientKindAPIClass>) | void |
| toString() | String |

| IngredientAPI | |
|-------------------------------------|--------------------------|
| drinks | List<IngredientAPIClass> |
| IngredientAPI() | |
| canEqual(Object) | boolean |
| equals(Object) | boolean |
| getDrinks() | List<IngredientAPIClass> |
| hashCode() | int |
| setDrinks(List<IngredientAPIClass>) | void |
| toString() | String |

| CocktailAPI | |
|-----------------------------------|------------------------|
| drinks | List<CocktailAPIClass> |
| CocktailAPI() | |
| canEqual(Object) | boolean |
| equals(Object) | boolean |
| getDrinks() | List<CocktailAPIClass> |
| hashCode() | int |
| setDrinks(List<CocktailAPIClass>) | void |
| toString() | String |

| IngredientKindAPIClass | |
|--------------------------|---------|
| strType | String |
| IngredientKindAPIClass() | |
| canEqual(Object) | boolean |
| equals(Object) | boolean |
| getStrType() | String |
| hashCode() | int |
| setStrType(String) | void |
| toString() | String |

| IngredientAPIClass | |
|---------------------------|---------|
| stringredient1 | String |
| IngredientAPIClass() | |
| canEqual(Object) | boolean |
| equals(Object) | boolean |
| getStringredient1() | String |
| hashCode() | int |
| setStringredient1(String) | void |
| toString() | String |

| ApiErrorException | |
|---------------------------|---------|
| error | String |
| ApiErrorException(String) | |
| canEqual(Object) | boolean |
| equals(Object) | boolean |
| getError() | String |
| hashCode() | int |
| setError(String) | void |
| toString() | String |

| ProfileDTO | |
|---------------------|---------|
| profile | Profile |
| ProfileDTO(Profile) | |
| equals(Object) | boolean |
| getId() | String |
| getName() | String |
| getProfile() | Profile |
| hashCode() | int |
| toString() | String |

| UserService | |
|----------------------------------|--------------------------------------|
| restTemplate | RestTemplate |
| serviceLogger | Logger |
| UserService(RestTemplateBuilder) | |
| getCocktailAPI(String) | CompletableFuture<CocktailAPI> |
| getIngredientAPI() | CompletableFuture<IngredientAPI> |
| getIngredientKindAPI(String) | CompletableFuture<IngredientKindAPI> |

| AsyncCommands | |
|--|----------------|
| userService | UserService |
| cocktailRepo | CocktailRepo |
| ingredientRepo | IngredientRepo |
| asyncCommandsLogger | Logger |
| AsyncCommands(UserService, CocktailRepo, IngredientRepo) | |
| run(String...) | void |

| CocktailRepo | |
|-------------------------------|--------------------|
| findAllByCocktailName(String) | List<Cocktail> |
| findByCocktailld(String) | Cocktail |
| findByCocktailName(String) | Optional<Cocktail> |
| findByIngredientName(String) | List<Cocktail> |
| findByProfileName(String) | List<Cocktail> |

| SeedDB | |
|---|-------------------|
| logger | Logger |
| SeedDB() | |
| initDatabase(CocktailRepo, IngredientRepo, ProfileRepo) | CommandLineRunner |

| MainExceptionHandler | |
|--|------------------------|
| MainExceptionHandler() | |
| handleApiError(ApiErrorException) | ResponseEntity<Object> |
| handleMethodArgumentNotValid(MethodArgumentNotValidException, HttpHeaders, HttpStatus, WebRequest) | ResponseEntity<Object> |

| ProfileDtoAssembler | |
|--|------|
| ProfileDtoAssembler() | |
| addLinks(CollectionModel<EntityModel<ProfileDTO>>) | void |
| addLinks(EntityModel<ProfileDTO>) | void |

| Security | |
|---------------------------------------|--------------------|
| Security() | |
| checkPassword(String, byte[], byte[]) | boolean |
| hashPassword(String) | ProfileLoggedCreds |

| ProfileRepo | |
|----------------------------------|-------------------|
| findByCocktailld(String) | List<Profile> |
| findByName(String) | Optional<Profile> |
| findCocktiaByProfileName(String) | List<Cocktail> |

| IngredientRepo | |
|----------------------------|------------------|
| findByCocktailld(String) | List<Ingredient> |
| findByIngredientld(String) | Ingredient |
| findByProfileld(String) | List<Ingredient> |

| FinalProjectApplicationTests | |
|--------------------------------|------|
| FinalProjectApplicationTests() | |
| contextLoads() | void |

| FinalProjectApplication | |
|---------------------------|------|
| FinalProjectApplication() | |
| main(String[]) | void |

| SwaggerConf | |
|---------------|--------|
| SwaggerConf() | |
| api() | Docket |

Server Flow

פנייה ל-API לקבלת כל המרכיבים שמופיעים בכלל הקוקטיילים.
לאחר מכן המשתמש יוכל ליצור לעצמו פרופיל, בו יוכל לשמור קוקטיילים שהתעניין בהם לתוך רשימה.
שמות כל הקוקטיילים יוצגו בפני המשתמש באמצעות בקשת GET ,
לאחר מכן יוכל לבקש שם של קוקטייל מסוים ולקבל את כל הקוקטיילים מאותו הסוג.
במידה ויכניס שם ספציפי של קוקטייל הנמצא בתת קטגוריה יקבל אותו בלבד.
כמו כן, ישנה אפשרות לחפש קוקטייל גם לפי מרכיב מסוים.