User

-id: int
-username: string
-userPicture : image
-recipeList*

+authorize(username:string,passwo

Extends

Admin

+addUser(in user:User): void
+deleteUser(userId:int): void
+resetPassword(in userId:int): st

Date

-recipes: List of Recipes

+addRecipe(in recipe:Recipe): vo
+deleteRecipe(in recipeId:int):
+getRecipe(recipeId:int): Recipe

Has One

+ge
+sh
+sh
+sh

ord:string): bool

tring

1

Has One

-re

+ge
+ad
+de
+ed
+ge
+co
+fi

Composed of

Has One

Has One
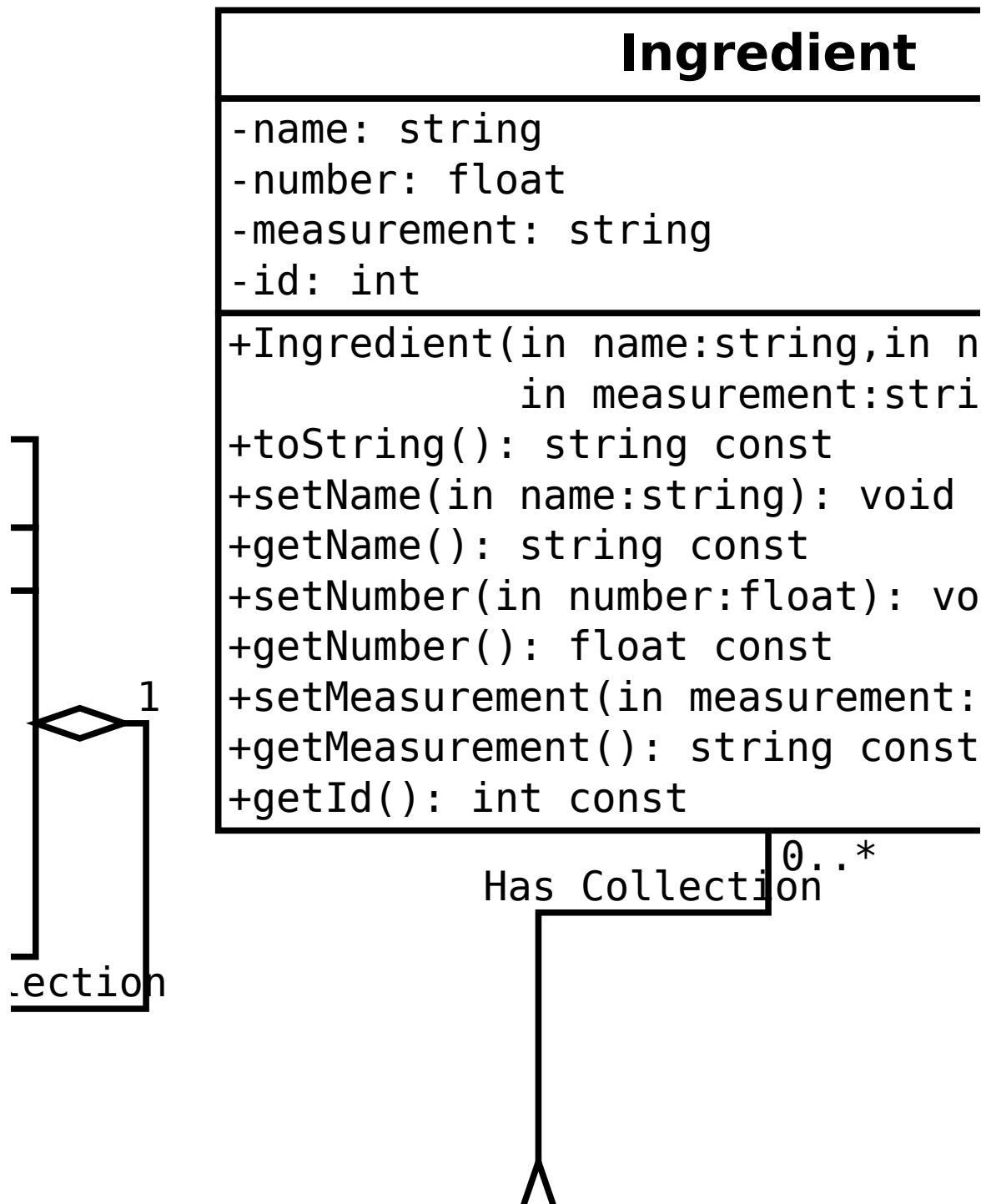
1..*

oid
void
e const

+ge
+ge

Calender

etDay(): Date const
howWeek(): void const
howMonth(): void const
howDay(): void const

Recipe Book

cipes: List of Recipes

tList(): array const
dRecipe(in recipe:Recipe): void
leteRecipe(in recipeId:int): void
itRecipe(in recipe:Recipe): void
tRecipe(in recipeId:int): array const
pyRecipe(in recipeId:int): void
ndRecipe(in searchString:string): Recipe

Has Coll

Shopping LIst

tList(): array
tPrintableList(): array

Ingredient

-name: string
-number: float
-measurement: string
-id: int

+Ingredient(in name:string,in n
              in measurement:stri
+toString(): string const
+setName(in name:string): void
+getName(): string const
+setNumber(in number:float): vo
+getNumber(): float const
+setMeasurement(in measurement:
+getMeasurement(): string const
+getId(): int const

1

0..*

Has Collection

.ection

umber:float,
ng)

id

string): void

Database

database: Database = currentDatal

+authorize(in username:string,in
+createUser(in username:string,in
        in email:string=""):
+editUser(in user:User): void
+deleteUser(in userId:int): void
+getUserByID(in id:int): array co
+getAllUsers(): array const
+addRecipe(in recipe:Recipe): int
+editRecipe(in recipe:Recipe): vo
+copyRecipe(in recipeId:int,in nev
+getRecipe(recipeId:int): array c
+getRecipeList(in userId:int): ar
+deleteRecipe(in recipeId:int): v
+getPantry(in userId:int): array
+editPantry(in pantry:Pantry): vo
+addToPantry(in pantryId:int,in i
        in numberOf:int): int
+removeFromPantry(in pantryItemId
+findRecipe(in searchString:strin

All Classes rely on Database for

base
password:string): int
password:string,
int
nst
id
wUserId:int): int
onst
ray const
oid
const
id
tem:string,
t
:int): void
g): array const

-i

+ge

+ac

+ec

+de

data storage/retrieval

Pantry

Items: List of Items

etList(): array const
ddItem(in item:Item): void
ditItem(in item:Item): void
eleteItem(in itemId:int): void

Has Collection

1

0..*

Item

-name: string
-number: int
-id: int

+getName(): string const
+getId(): int const
+getQuantity(): int const
+setName(in name:string): void
+setQuantity(in number:int): void

0..*

-ing
-dir
-des
-nam
-id:
-pic

+ado
+del
+edi
+get
+set
+get
+set
+get
+set
+get

V 1
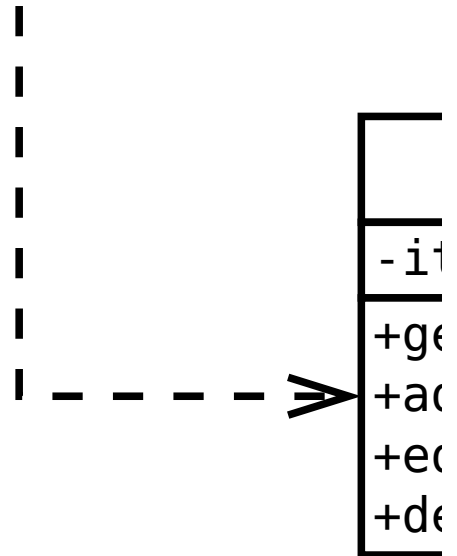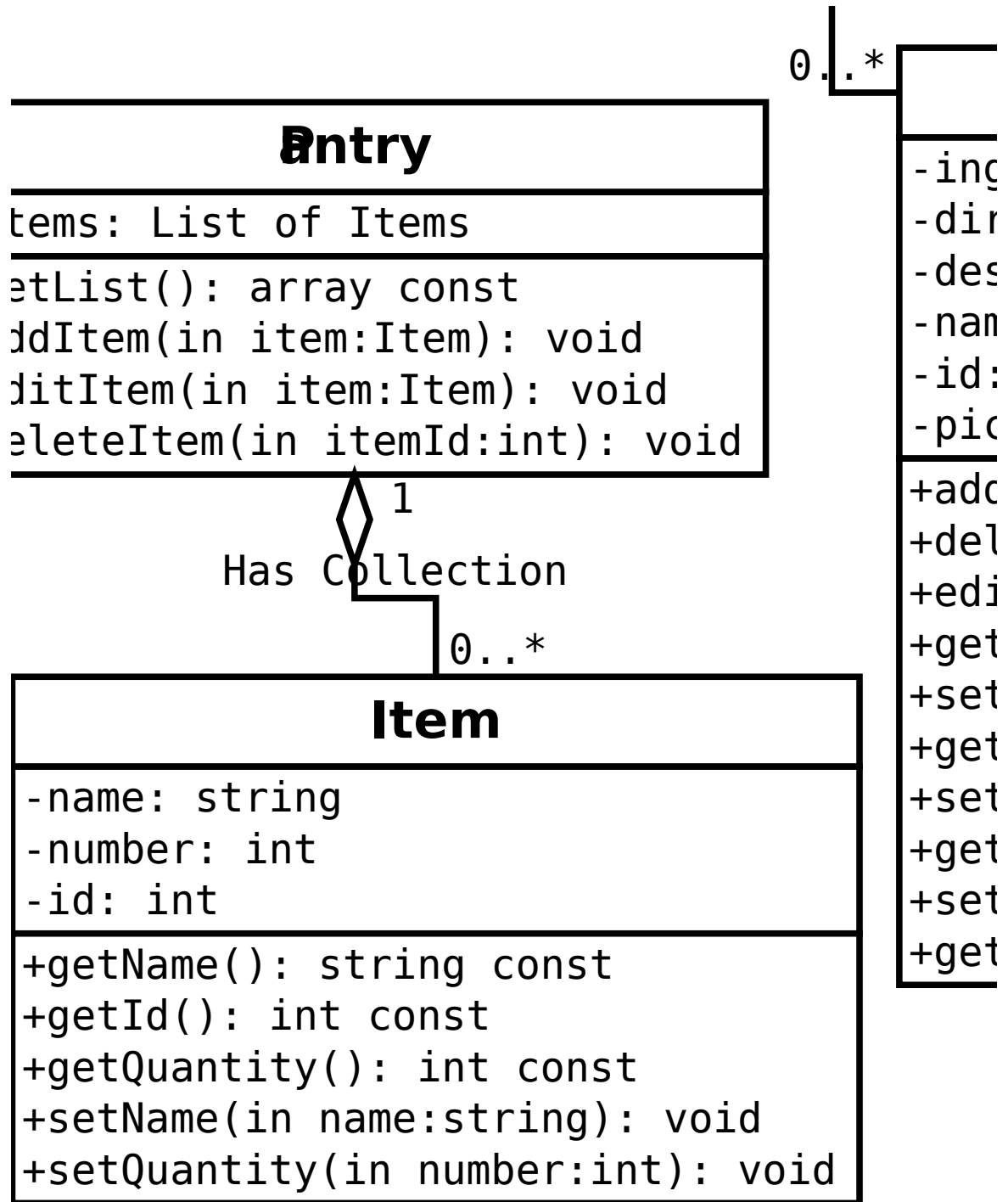
Recipe

gredients: List of Ingredients
rections: string
scription: string
me: string
: int
cture: string

dIngredient(in ingredient:Ingredient): vc
eteIngredient(in ingredientId:int): voic
tIngredient(in newIngredient:Ingredient)
Directions(): string const
Directions(in directions:string): void
Description(): string const
Description(in description:string): voic
Picture(): string const
Picture(in picture:string): void
Id(): int const

oid
d
): void

d