UML Diagrams
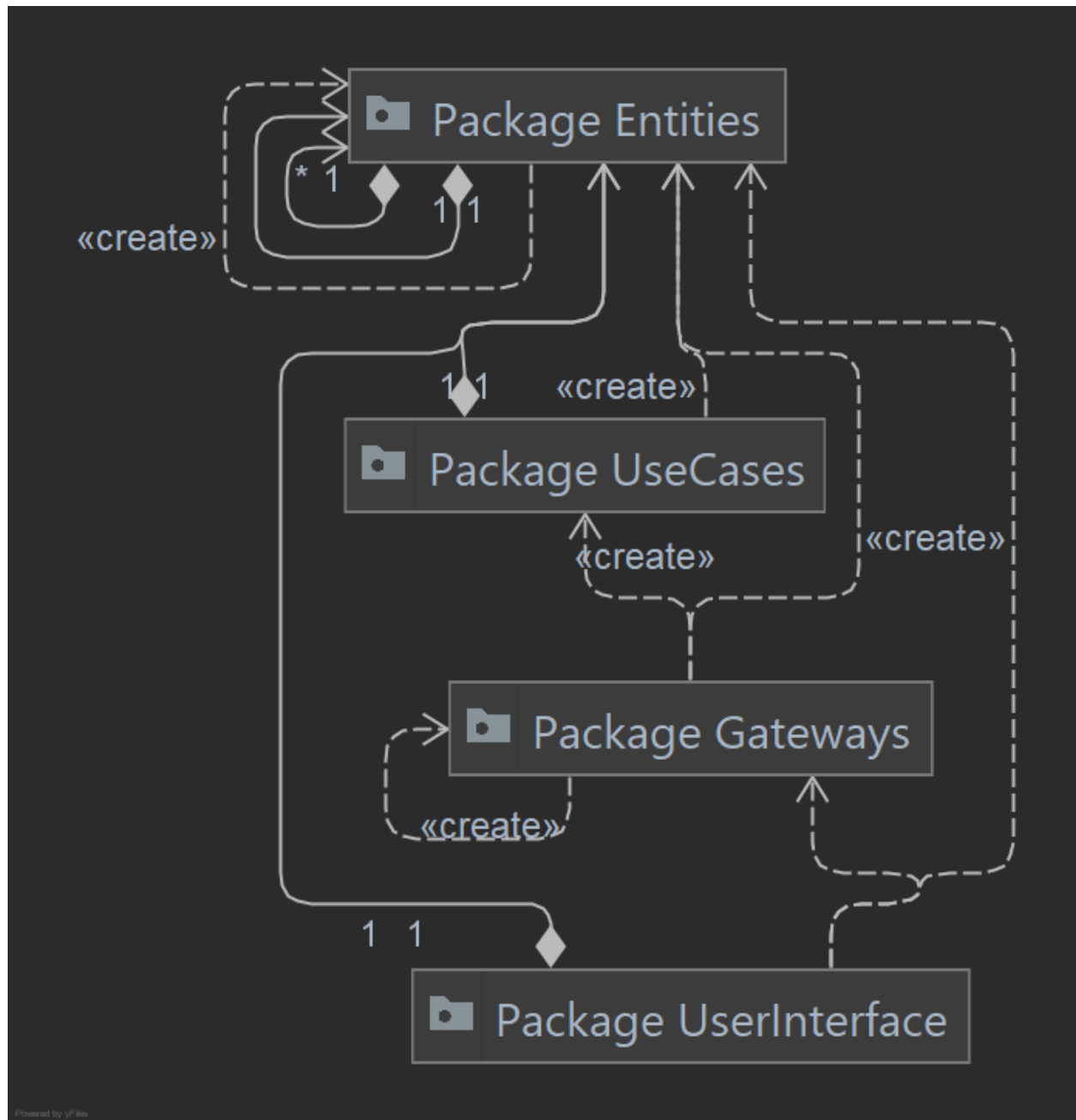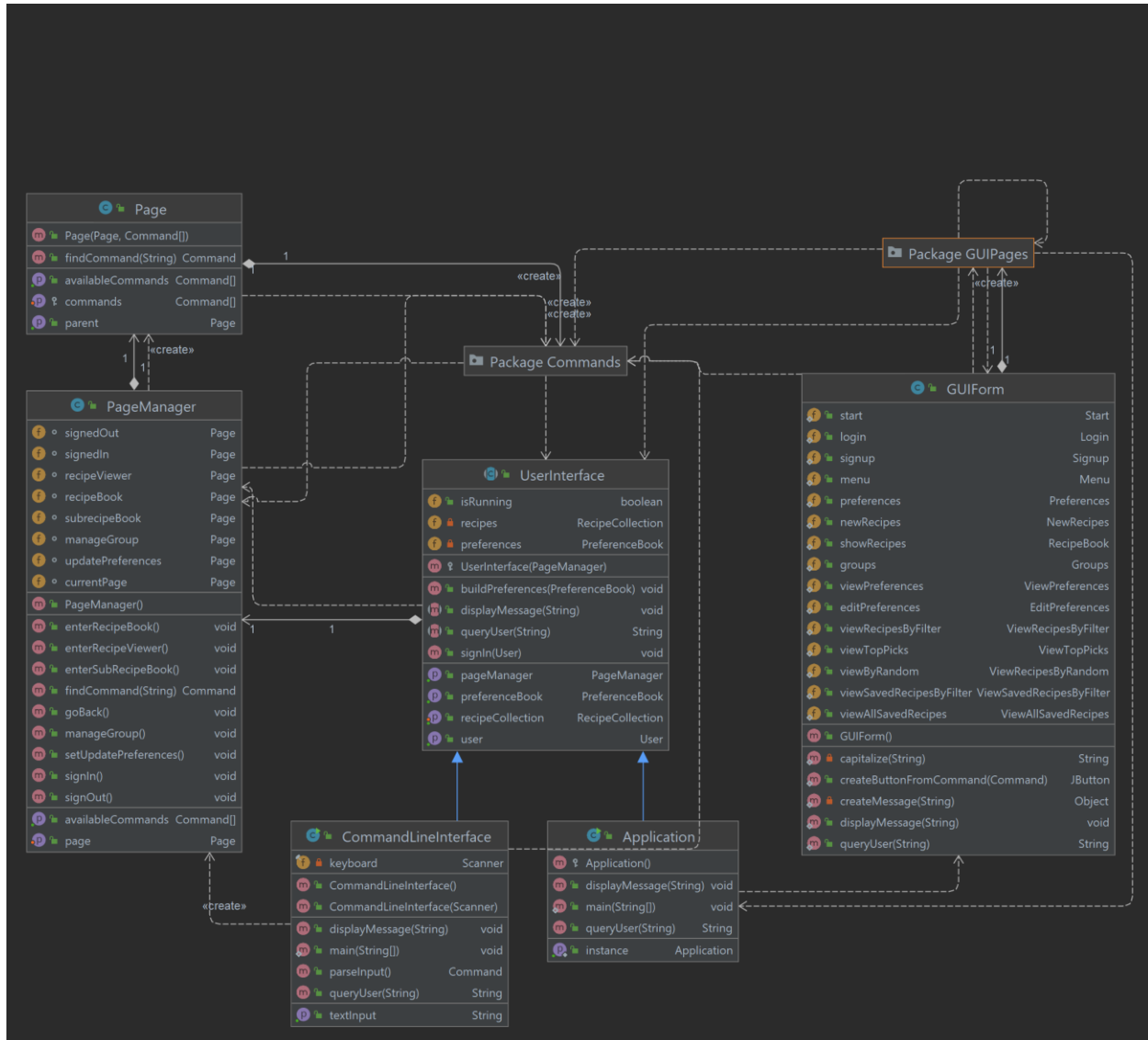
A high-level UML highlighting all dependencies:
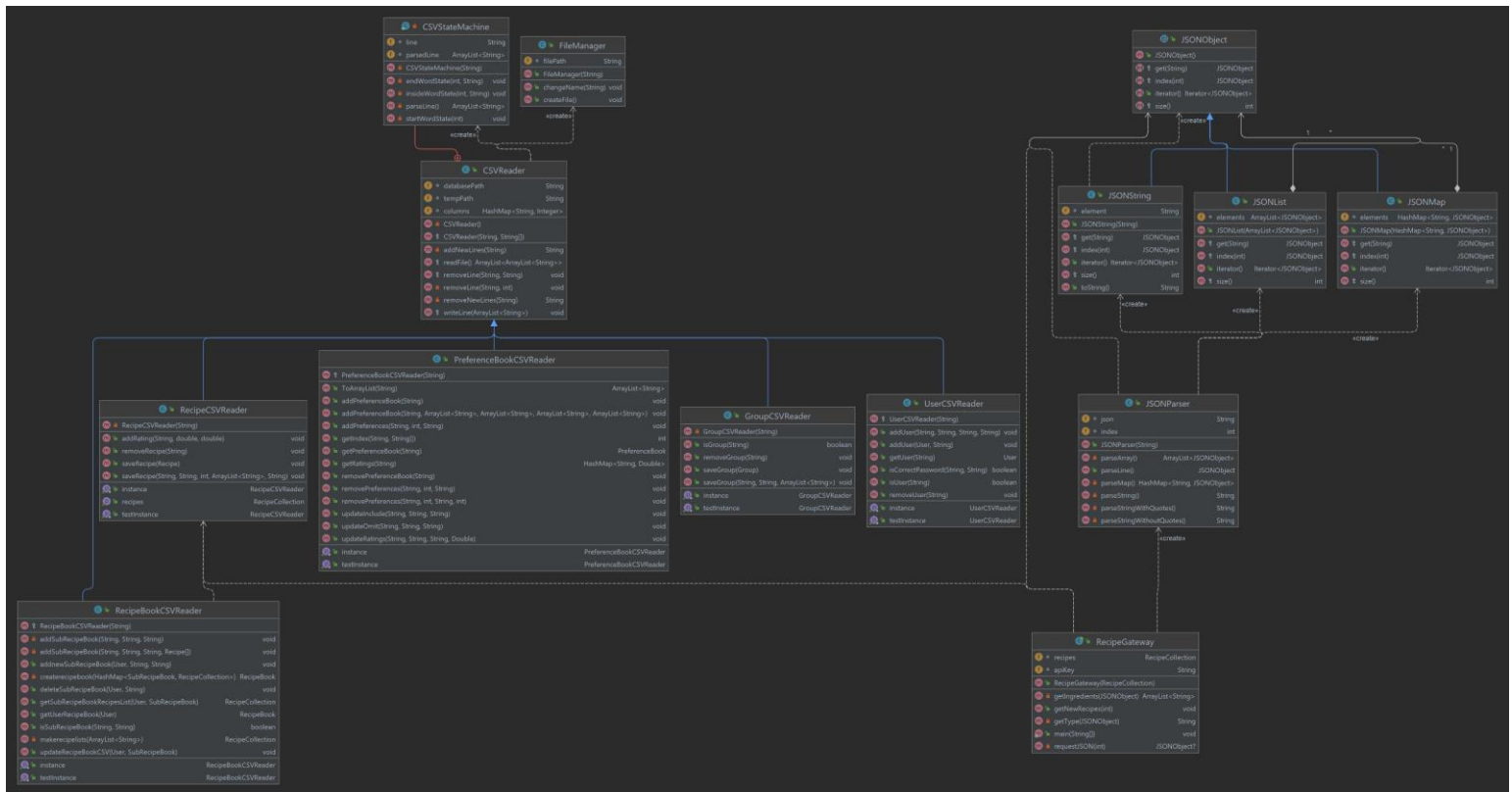
UML Diagrams

UML of UserInterface:

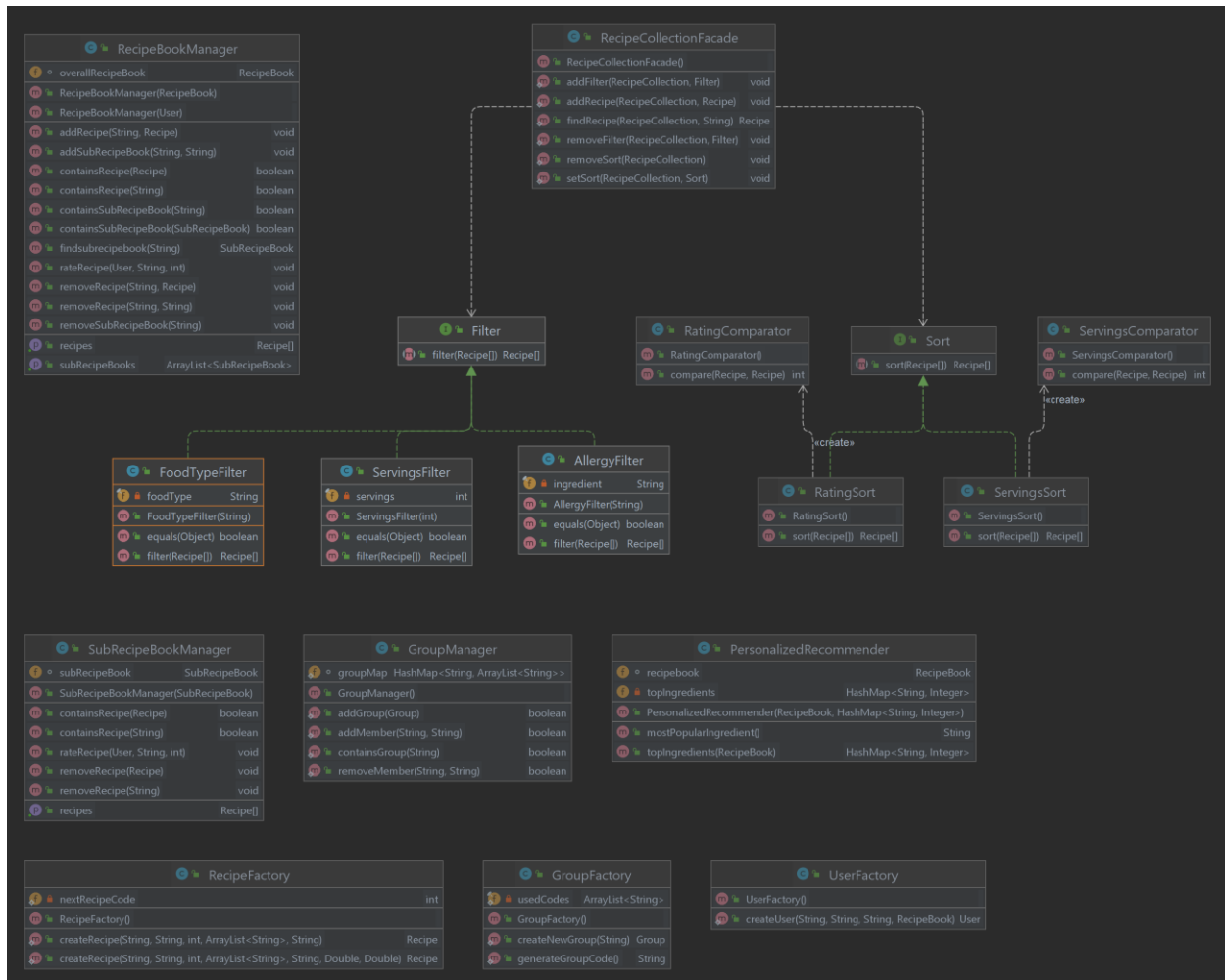# UML Diagrams

UML of Gateways:

UML Diagrams

UML of UseCases

UML Diagrams

UML Entities:

PreferenceBook
- user : String
- omit : ArrayList<String>
- include : ArrayList<String>
- ratingMap : HashMap<String, Double>
- PreferenceBook(String)
- PreferenceBook(String, ArrayList<String>, ArrayList<String>)
- addRating(HashMap<String, Double>) : void
- addRating(Recipe, Double) : void
- contains(String, String) : boolean

Recipe
- foodName : String
- ratingCount : double
- Recipe(int, String, String, int, ArrayList<String>, String)
- addRating(double) : void
- toString() : String
- foodType : String
- ingredients : ArrayList<String>
- instructions : String
- name : String
- rating : double
- recipeCode : Integer
- servings : int

RecipeCollection
- dataMap : HashMap<Integer, Recipe>
- sortAlgorithm : Sort
- filters : HashSet<Filter>
- usesSort : boolean
- RecipeCollection()
- addFilter(Filter) : void
- addRecipe(Recipe) : void
- containsRecipe(Recipe) : boolean
- containsRecipe(String) : boolean
- containsRecipe(int) : boolean
- findRecipe(Integer) : Recipe
- findRecipe(String) : Recipe
- iterator() : Iterator<Recipe>
- removeFilter(Filter) : void
- removeRecipe(Integer) : void
- removeRecipe(Recipe) : void
- removeRecipe(String) : void
- removeSort() : void
- size() : int
- recipeCodes : Integer[]
- recipes : Recipe[]
- sort : Sort

SubRecipeBook
- SubRecipeBook()
- SubRecipeBook(String)
- SubRecipeBook(String, String)
- addRecipe(Recipe) : void
- containsRecipe(Recipe) : boolean
- containsRecipe(String) : boolean
- getRecipe(Integer) : Recipe
- getRecipe(String) : Recipe
- removeRecipe(Integer) : void
- removeRecipe(Recipe) : void
- size() : int
- codes : Integer[]
- description : String
- name : String
- recipes : Recipe[]

RecipeBook
- usersubrecipebooks : ArrayList<SubRecipeBook>
- RecipeBook()
- addRecipe(String, Recipe) : void
- addSubRecipeBook(String) : void
- addSubRecipeBook(String, String) : void
- addSubRecipeBook(SubRecipeBook) : void
- getRecipe(Integer) : Recipe
- getRecipe(String) : Recipe
- removeRecipe(String, Integer) : void
- removeRecipe(String, Recipe) : void
- removeSubRecipeBook(SubRecipeBook) : void
- showSubRecipeBook(String) : SubRecipeBook
- showSubRecipeBook(SubRecipeBook) : SubRecipeBook
- size() : int
- allRecipes : Recipe[]
- codes : Integer[]
- subRecipeBooks : ArrayList<SubRecipeBook>

User
- User(String, String, String)
- User(String, String, String, RecipeBook)
- email : String
- fullname : String
- recipeBook : RecipeBook
- username : String

Group
- Group(String, String)
- groupCode : String
- groupMembers : ArrayList<String>
- groupName : String
- recipeBook : RecipeBook