# **Preference** -LikedRecipe : List<Recipe> -SavedRecipe: List<Recipe> -Disliked: List<Ingredient> <--·Use ----+ Preference() + GetDislikes() List<Ingredients> + GetSavedRecipes () List <Recipes> + GetLikedRecipes () List <Recipes> Use **Preference Control** + PreferanceControl() + AddDislikes(user: User ingredient: Ingredient): void + RemoveDislikes(user:User, ingredient: Ingredient): void + AddRecipeToFavorites(user:User, recipe: Recipe): void +RemoveRecipeFromFavorites(user:User, recip Recipe): void + AddRecipeToLiked(user:User, recipe: Recipe): void + RemoveRecipeFromLiked(user:User, recipe: Recipe): void */*:\ '-----Use -----Roles enum Role user, moderator admin,

Ingredient

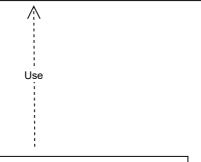
-ingredientName: string

# User profilePicture : byte[] username : string - email: string password : string firstname : string

- -role: Role -UserPreferances : Preferance
- + User(profikePicture byte[], username:string, email: string, firstname: string, lastname: string, role Role, UserPreferances Preferance)
- + GetUsername() string
- + GetProfilePic() byte []
- + GetEmail() string

lastname : string

- + GetName() string
- + GetRole() Role
- + GetPreferances() Preferance



### **UserControl**

- +UserControl()
- + SignUp(profikePicture byte[], username :string , email : string , firstname : string ,lastname :string, role Role, dislike List<Ingredient>, savedRecipe: List<Recipes> , likedRecipe : List<Recipes: )

+ LogIn(email: string, password: string): bool

- + PromoteUser(email: string): void
- + DemoteUser(email: string): void
- + DeleteUser(email: string): void
- + ChangePassword(email: string, newPassword: string): void
- + AddDislikes(user: User ingredient: Ingredient): void
- + RemoveDislikes(user:User, ingredient: Ingredient): void

# Recipe

- -picture : byte[]
- -Creator User
- -RecipeName string
- -Decription string
- -Ingredients : List<Ingredient>
- -Instruction: string
- -PreparationTime : int
- -Cooking time : int
- -Views :int
- +Recipe(picture : byte [], Creator : User, RecipeName: string, Decription: string, ingredients: List<Ingredient>, instructions: string, cookingTime: int): void
- + GetPicture() byte[]
- + GetCreator() User
- + GetRecipeName() string
- + GetDecription() string
- + GetIngredients() List<Ingredient>
- + GetInstruction() string
- + PreparationTime() int
- + GetCookingTime() int
- + GetViews() int



# RecipeControl

- +RecipeControl()
- +getRecipes(): List<Recipe>
- +RateRecipe(recipename: string, username:string, rating bool, comment string, timestamp: timestamp)
- +CreateRecipe(picture : byte [], Creator : User, RecipeName: string, Decription: string, ingredients: List<Ingredient>, instructions: string, cookingTime: int): void
- +DeleteRecipe(recipeName : string): void
- +UpdateRecipe(recipeName : string, newIngredients: List<Ingredients>, newInstruction: string, newCookingTime int): void
- +GetRecipeByName(recipeName: string): Recipe

## **Recipe Rating**

- -recipe: Recipe
- -username: User
- profilePicture : byte[]
- -rating bool
- -comment string
- -timestamp : timestamp
- +RateRecipe(recipename: string, username:string, rating bool, comment string, timestamp : timestamp)
- +GetRecipeName(): string
- + GetRaterName() string
- + GetComment() string
- + GetTimeRated() timestap

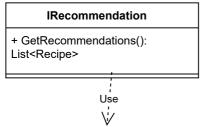
WeeklyCalendar

Use

- -WeekStartDay: DateTime
- -WeekEndDay: DateTime
- -user : User
- -SavedRicipes : List<Recipe>
- -mealPlan: Dictionary<DateTime, Recipe>
- +WeeklyCalendar( WeekStartDay: DateTime, WeekEndDay : DateTime, user: User , mealPlan: Dictionary<DateTime, Recipe>): void
- +GetSavedRecipes(user: User): List<Recipes>
- +GetWeekStartDay(): DayTime
- +GetWeekEndDay(): DayTime
- +GetMealPlan(): Dictionary<DateTime, Recipe>

-measurment unit: List<string>
-quantity: float

+Ingredient(name: string, measurment unit: List<String> quantity: float)



# Recommendation

-ite

-0\

+0

- user: User

- + Recommendation(user: User)
- + GetRecommendations(): List<Recipe>

+ AddRecipeToFavorites(user:User, recipe: Recipe): void

RemoveRecipeFromFavorites(user:User, recipe Recipe): void

- + AddRecipeToLiked(user:User, recipe: Recipe): void
- + RemoveRecipeFromLiked(user:User, recipe: Recipe): void

# **Shopping cart**

ems: List<Ingredient>

vner: User

hoppingCart(owner: User)

GetOwner(owner: User): User

SetItems(): List<Ingredient>

- +GetRecipeByUser(user: User ): List<Recipe>
- +AddView(string: recipeName): void
- +GetMostViewRecipes() List<Recipe>
- +GetRecentlyAddedRecipes(): List<Recip
- +GetTopRateRecipes(): List<Recipe>

# **ShoppingCartControl**

-owner: User

**∠**Use

- +ShoppingCartControl()
- +CreateShoppingCart(owner: User): void
- + GetShoppingCart(owner: User):
- + AddToCart(owner: User, ingredient:
- + MarkIngredient(owner: User, ingredient:
- + GetItems(owner: User): List<(Ingredient, string, bool)>

-items: List<Ingredient>

- ShoppingCart
- Ingredient, unit: string): void
- Ingredient): bool
- + RemoveFromCart(owner: User, ingredient: Ingredient): void

# CalendarControl

- +CalendarControl(User user)
- +getWeeklyPlan(User user): List<Recipe>
- + AddRecipe(day : DateTime, recipe:Recipe,
- user: User): void
- + RemoveRecipe(day : DateTime, recipe:Recipe, user: User): void
- + ChangeMealDay(currentPlaneDay: DateTime , newDay : DateTime , selectedRecipe: Recipe): void