<<Enum>> Room <<interface>> MeetingRoom **ICommandService** CommandService ResourceShortage Kitchen Bathroom + UserName:string - _userName:string + Title:string - isAdministrator:bool + AddResourceShortage(ResourceShortage) + Name:string _repository:IRepository :ValidationResult <<Enum>> + Room:Room -_validator:ResourceShortageValidator Category + GetResourceShortage(ResourceShortageFilter) + Priority:int :List<ResourceShortage> + CreatedOn:string Electronics +RemoveResourceShortage(string, Room):bool Food Other ResourceShortageFilter <<interface>> + Title:string **IRepository** + Date1:string + Date2:string Repository + Room:Room + Category: Category +FindAllOrderedPriority: IQueryable<ResourceShortage> - _jsonFileName:string + FindFirstByCondition(Expression<Func<ResourceShortage, _shortageResources: bool>>):ResourceShortage List<ResourceShortage> + IndexOfResourceShortage(ResourceShortage) : int + AddResourceShortage(ResourceShortage) : void SaveDataToJson:void + RemoveResourceShortage(ResourceShortage) : void + ReplaceResourceShortageAt(int , ResourceShortage) : void <<interface>> **ICoommand** +Execute(ICommandService):void DeleteRequestCommand RegisterShortageCommand ListRequestsCommand + Title:string + Title:string + Title:string + Room:Room + Name:string + Date1:string + Room:Room + Date2:string + Category: Category + Category: Category + Priority:int + Room:Room