Response Simple UML diagram of system. +Data: List<AbstractEntity> NB: only public methods and fields +Metadata: HashMap<string, string> are notaded in order to keep it +ErrorMessage: string simple and understandable. +ErrorCode: int INHERITED METHODS ARE Request **Permissions NOT INCLUDED!** +url: string +Permissions(User user) +data: HashMap<string, string> +CanDo(Action action, int id) +user: User Responsibilities **DatabaseConnector** -- Check user permissions +Query(HashMap<string,string> data, PreparedStmt stmt): SqlDataReader +Command(HashMap<string,string> data, PreparedStmt stmt): void +Prepare(string query): PreparedStmt «interface» +StartTransaction(): void +Rollback(): void iRestServiceImpl "all methods as Responsibilities described in spec" -- Connect to the database -- Execute Queries **UserController** -- Open and close connections Responsibilities -- Interpret call -- Assemble response **MainController RestServiceImpl** Responsibilities Responsibilities -- Call Validation -- Public interface -- URL-structure -- User Authentication UserHandler -- User to request object -- Url+Data to Request object -- Route call to correct controller Responsibilities -- Query or manipulate user data Query and manipulate user related data via other relevant handlers User «Interface» **Action iController** «abstract» **AbstractEntity** +Call(Request request): Response +id: int Media Responsibilities MediaHandler -- Data structure for WS return types Responsibilities «abstract» - Query or manipulate **AbstractHandler** media data +AbstractHandler(Permissions permissions) · Query and manipulate media related +Create(HashMap<string, string> data): void data via other relevant handlers +Read(int id): AbstractEntity +Update(int id, HashMap<string, string> data): void +Delete(int id): void +Search(HashMap<string, string> data): List<AbstractEntity> Responsibilities -- All basic entity methods -- CRUD for single entities -- Read multiple entities