

Building Database Applications- Lab 1 – Create simple architecture

1. Introduction.
 - a. You can use C#/Java/C++ language for realize tasks.
 - b. I propose use Git Hub for store yours project and send me a link to adam.hakowski@wab.edu.pl or send compressed project via email.
2. Create project with layers(can be folders or packages or assemblies):
 - a. Models
 - i. Create class with name Cart and with fields:
 1. Id, Integer
 2. CreatedDate, DateTime
 3. UpdatedDate, DateTime
 4. UserId, Integer
 5. Articles, List<Article>
 6. Value, Decimal
 - ii. Create class Article with fields:
 1. Id, Integer
 2. Name, String
 3. Price, Decimal
 4. Quantity, Integer
 5. Unit, String
 - b. Repositories
 - i. Create class CartRepository with functions/methods
 1. GetCart with Id as argument/ entry parameter. Mock example date.
 2. GetAllCarts with UpdateDate as argument
 3. GetAllCarts and return all carts
 - c. Services
 - i. Create class CartService with functions/methods:
 1. GetAllCarts and get data by CartRepository. Calculate Value of Cart by formula:
Value = Sum(Article Price * Article Quantity)
 - d. Views
 - i. Create class CartView and call GetAllCarts from CartService