Description of the problem

Dependency injection

Container of dependency injection

Summary

Container Dependency Injection

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Agenda

- Description of the problem
- 2 Dependency injection
- 3 Container of dependency injection
- Summary

Description of the problem

```
public class Foo
{
  public void DoSomeWork()
  {
    Bar bar = new Bar();
    bar.DoSomething();
  }
}
```

```
public class Foo
{
  public void DoSomeWork()
  {
    Bar bar = new Bar();
    bar.DoSomething();
  }
}
```

```
public class Foo
{
  public void DoSomeWork(Bar bar)
  {
    bar.DoSomething();
  }
}
```

```
public class Foo
 Bar bar;
 public Foo(Bar bar)
   bar = bar;
 public void DoSomeWork()
   _bar.DoSomething();
```

Dependency injection kinds

Dependency injection kinds

- Injecting by the constructor
- Injecting by the method
- Injecting by the property

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- Injecting by the constructor
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Container of dependency injection

Basic operations

- Register,
- Resolve.

Registration types

- Transient,
- Singleton,
- Scope (Thread, HttpRequest),
- Factory Method.

Container

```
public class Container
 private List<Type> RegisteredTypes;
 public Container()
   RegisteredTypes = new List<Type>();
```

Register

```
public void Register(Type type)
{
   RegisteredTypes.Add(type);
}
```

Resolve

```
public object Resolve(Type type)
{
  if(!RegisteredTypes.Contains(type))
    throw new TypeNotRegisteredException();
  return CreateObjectOfType(type);
}
```

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Questions?

Thank you!