Department of computer science

Software Engineering (Sprint 1)

Project (Sprint 1): **Car Dealership System**

Group 5

Waqar Bashir 161104

Usman Nawazish 161122

Hamza Ali 161124

Minhaj Ahmad 161150

Submitted to Mam Aatka Ali

Project Car Dealership system:

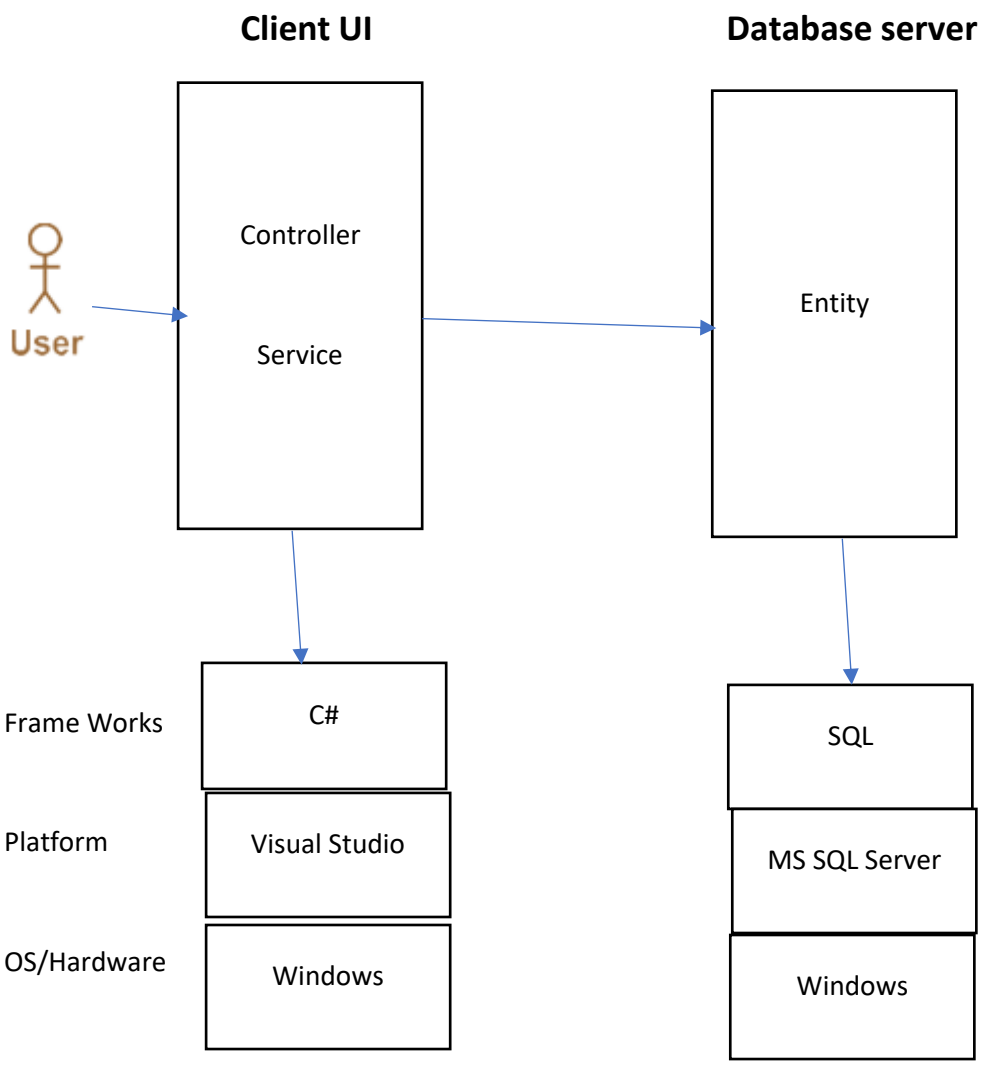
Sprint 1

Elaboration phase

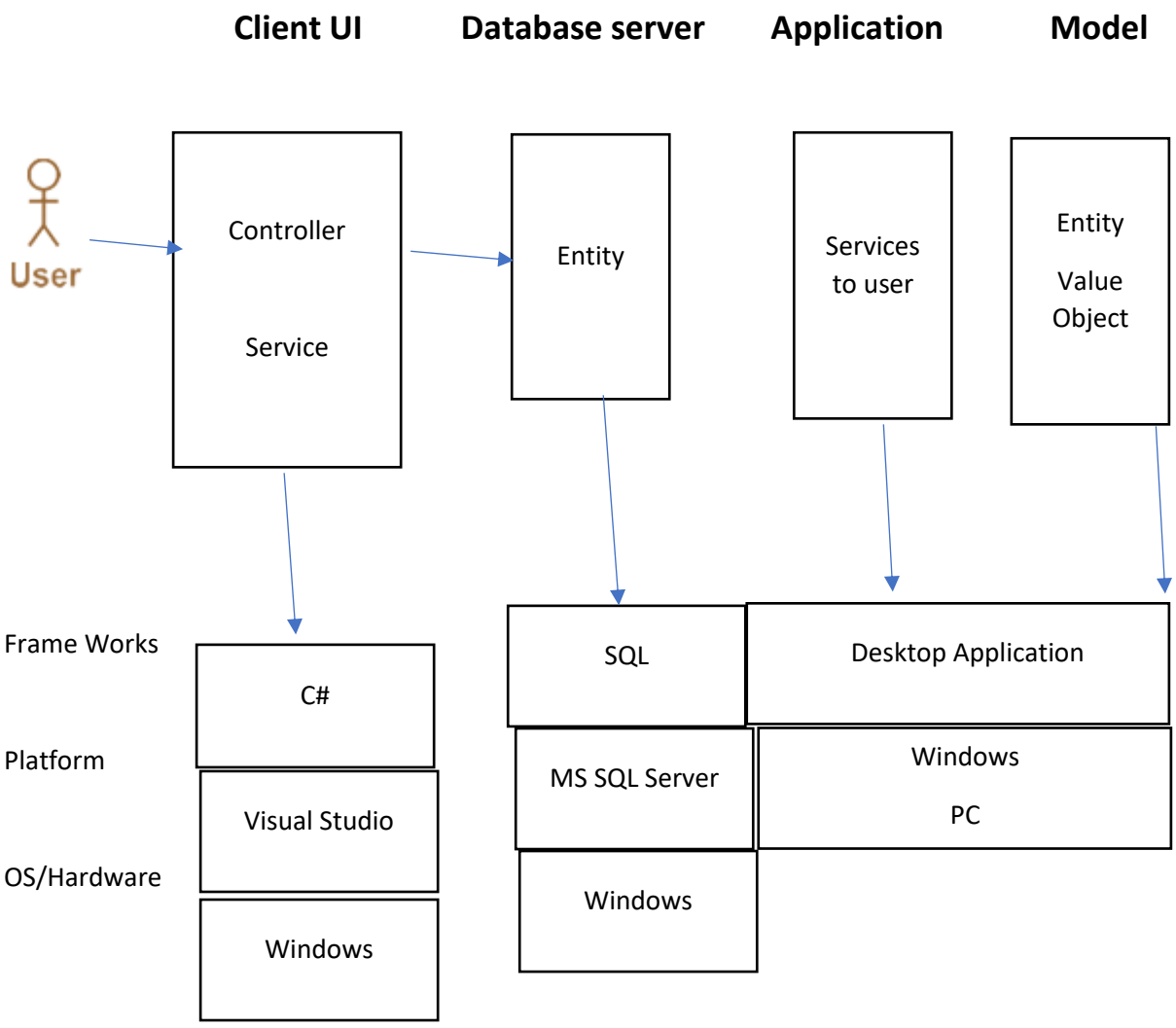
Contents:

- Project Architecture
- Domain Drive design
- State based behavior
- Implementation on sql server

Project Architecture:

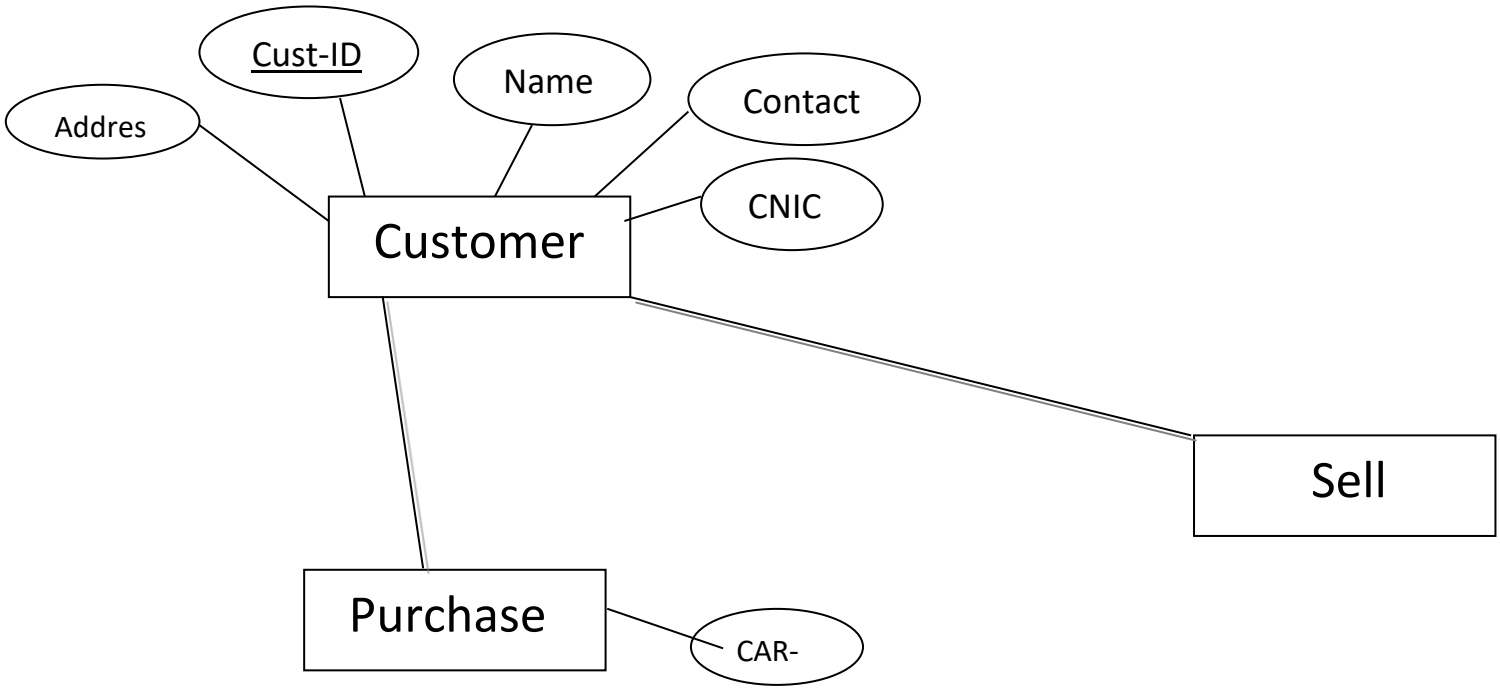


Domain Driven Design:

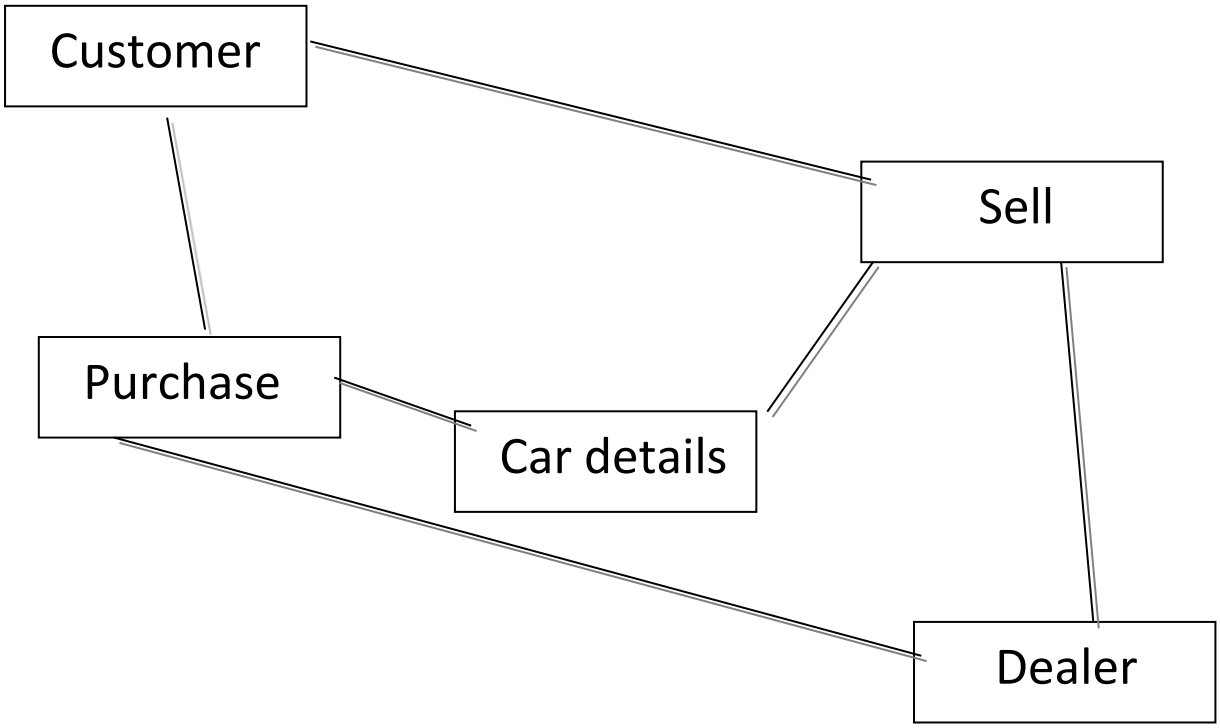


Domain Driven Design:

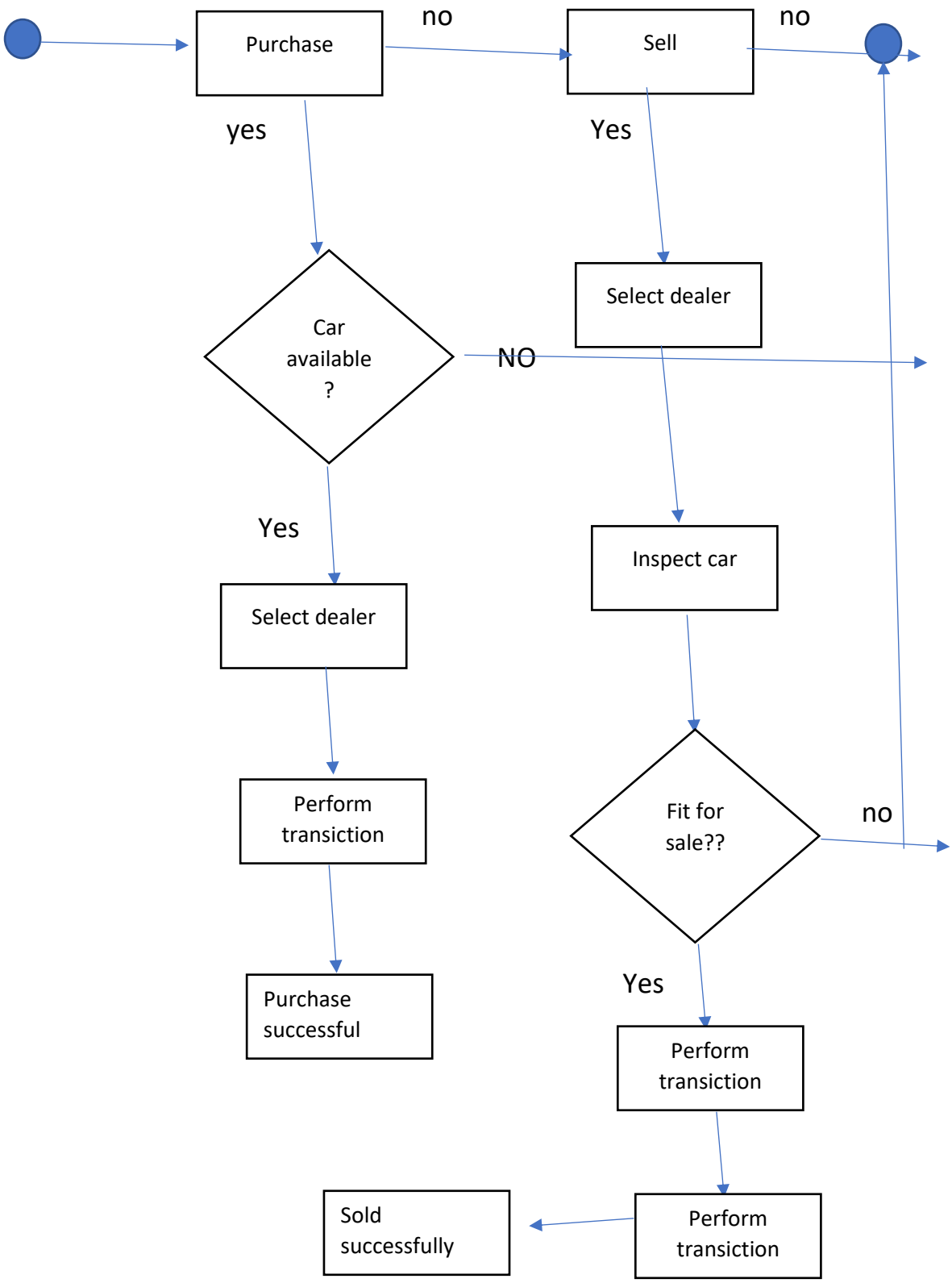
Application:



Model:



State based behavior:



Implementation:

Stored procedures:

Insert:

```
create procedure cust_insert
(
@id int,
@name nchar(50),
@contact bigint,
@cnic bigint,
@address varchar(50),
@statement nvarchar(10)=''
)
as
begin
if @statement= 'insert'
insert into dbo.customer (id,name,contact,cnic,address)
values (@id,@name,@contact,@cnic,@address)
end
```

update:

```
begin
if @statement='update'
update customer
set name=@name, contact=@contact, cnic=@cnic, address=@address
where id=@id
end
```

Delete:

```
begin
if @statement='delete'
delete from customers
where id=@id
end
```

Stored procedures call:

```
go
execute dbo.cust_insert 6,'waqar',423432,324322,'efrewre','insert'
execute dbo.cust_insert 5,'waqar',423432,324322,'multan','update'
execute dbo.cust_insert 4,'waqar',423432,324322,'multan','delete'
```

Triggers:

This trigger is used in purchase. It checks that whether the required call is available or not.

```
create trigger CARCHECKTRG ON [dbo].[sale]
instead of insert
AS
Begin
	declare @customerid int;
	declare @carid int;
	declare @cid INT
	declare @price int
	SELECT  @carid=car_id from inserted
	SELECT @cid=car_id from Purchase
	IF (@cid != @carid)
	BEGIN
		print 'Car is not available'
		return
	END
END
insert into [dbo].[sale] values(111,2,2,345)
```