Development of desktop application for sales registration of mobile operator in Republic of Iraq

of the master graduate qualification work
for the student of the group CE-229

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Supervisor:
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O.N. Ivanova
- Each company has a special system to storage data
- These programs vary from one company to another
- In Iraq some companies use ordinary paper or Excel
Research goal and objectives

Goal:
- The goal of the research is to develop a desktop application for sales registration of mobile operator in Republic of Iraq.

Objectives:
- To make a comparative analysis of the existing solutions.
- To design database and to design a project due to the functional requirements.
- To implement the project.
- To perform functional testing.
Comparative analysis

- Such companies usually use Excel to perform. But I see that it has a lot of disadvantages
  - Time Consuming
  - Viruses
  - Customizable Graphs
  - Hard to use
  - Difficult to analyze
Requirements

- Function “sales” is available for the Customer care so he will be responsible for fully managing of sales (CRUD).
- Function “Customer” is available for the Customer care so he will be responsible for fully managing of himself (CRUD).
- Function “Type” is available for the Customer care so he will be responsible for fully managing of items types (CRUD).
- Function “Item” is available for the Customer care so he will be responsible for fully managing of items (CRUD).
- Function “Guarantee return” is available for the Customer care so he will be responsible for fully managing of guarantee returns (CRUD).
- Function “Unblock SIM” is available for the Customer care so he will be responsible for fully managing of unblock SIM (CRUD).
Use case diagram

[Use case diagram with nodes labeled as CRUD Sell, Sell WiFi Router, Sell Sim Card, Sell Phone, CRUD Customer, CRUD Type of items, CRUD Guarantee return, CRUD Unblock sim card, CRUD items, Get offers for WIFI Router, Get Statistical Reports, and Customer Care.]
Scheme of database
Implementation

- Language: C#
- Platforms: ASP.NET 4.5
- DBMS: SQL-server
The main interfaces
Function “Add customer”
Function “Add customer”
Function “Delete type”
Function “Edit items”
Function “Load data”

<table>
<thead>
<tr>
<th>No</th>
<th>ID</th>
<th>Customer ID</th>
<th>Customer Name</th>
<th>Item ID</th>
<th>Item Model</th>
<th>Date</th>
<th>Quantity</th>
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Function “Search”
Function “Generate report”

- Report by search

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- Current report

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algorithm of sales calculation
Main results

- Comparative analysis of the existing solutions is made
- Database is designed
- Functional requirements are designed
- Project is implemented
- Functional testing is performed