SPUTEK DATABASE SYSTEM

Requirement Analysis

V1.0

Lead Software Developers

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Customer

Sputek Technology

**Introduction**

The purpose of this project is creating a database system and integrating it to the web site for SPUTEK TECHNOLOGY. The chosen database system technology is MS SQL .

**Overview**

After creating a database system for Sputek Company, they will be able to sell their projects and items via their website. Firstly , for implementing this database we will use MSSQL. After determining the entities and their relationships , we will build our database system. Then , we will integrate this database with the website of Sputek.

**Entities & Definitions**

* Customer : this entity will keep customer info in detail
* City : this entity will keep all cities
* State : this entity will keep all states of current city
* Company : this entity will keep every detail about company
* Personel : this entity will keep personels of that company
* Product : this entity will keep product list
* Storage : this entity will keep all materials for products
* Service : this entity will keep the list of all services
* Order : this entity will keep the orders
* Bill : this entity will keep the bills in detail
* Order\_Product : this entity is an intermediate entity between order and product
* Customer\_Order : this entity is an intermediate entity between customer and order
* Company\_Product : this entity is an intermediate entity between company and product
* Customer\_Company : this entity is an intermediate entity between customer and company
* Company\_Personel : this entity is an intermediate entity between company and personel

Note : new entity can be added according to the company’s requests.

**Business Processes & Definitions**

Sputek Technology serves lots of services and products to their customers. They do their best for the customer's requests. These are the services & products:

Services :

* *Project and Engineering* :

1. Creating the project size with subscription.
2. Preparation of single line diagrams.
3. Preparation of project application files.
4. Analyzing the area planned by the facility through simulation programs.
5. Creating project files of projects that meet customer needs and investment targets in accordance with relevant laws and regulations, submitting them to TEDAŞ and following up the approval process.

* *Lending and Finance* :

1. The financing problem, which is the biggest obstacle in front of the sector, slows down the realization of investments, or even makes it impossible. Sputek Technology Inc. prepares feasibility, BP and loan documentation for loan applications in different scopes for all individual or corporate investors.

* *Consultancy* :

1. Development of unlicensed solar power plant projects.
2. Technical consultancy on the currently developed portfolio.
3. Valuation, feasibility, cash flow and BP preparation for financing needs.

* *R&D* :

1. Wave electrical systems.
2. Solar electrical systems.
3. Portable energy systems
4. Energy park systems.

Products :

* *Solar Boat*:

1. Solar armature
2. Solar bank
3. Solar charging station
4. They are listed as boutique projects designed according to energy needs or demand.

* *Solar Arbor* :

1. The design applied in the solar arbor is a creative design and an original work.
2. The design of the solar arbor has been made with ergonomics in mind and it has been designed with disabled citizens in mind.
3. Solar arbor is an environmentally friendly and innovative product that emits 0 carbon.

* *Solar Irrigation System* :

1. With this system, which was established as a result of determining the water need of your land where you want to irrigate your land, and designing a special system for your needs, it is aimed to meet the irrigation need without paying an electricity bill.

**Business Rules & Restrictions**

* Using MSSQL
* Meeting at least 1 times in a week
* Submitting report of each step