



Al-Hussain Technical University

The National ICT Up skilling program

Programming in PHP

## **E-Shopping**

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## **Abstract**

In light of the remarkable and accelerating technological development in our lives, which led to The increase in the popularity of the Internet in general and its applications in particular, this part Has become part of our daily life. Transactions in general have become electronic, and for the Technology market, shopping sites have increased in their various forms, and this is what led to The production of the idea of this project for us.

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## **1. Introduction**

My project is an e-commerce website specializing in smoking products and devices, as the Project allows suppliers to display their products to customers, making it easier for the customer To make effort and time to reach the product he wants, as well as providing electronic methods In Marketing to suppliers other than traditional methods and replacing the hassles and hassles of Marketing to bring in customers. As this site constitutes a meeting point for both parties and Provides service to them, and thus the interest becomes common to all.

## **2. Methodology**

### **2.1: Introduction**

There are many types of models used in software design and development. Among them are the spiral models, rapid development model, waterfall model, prototyping Model, etc. In our project, we will use Waterfall Model

### **2.2: Waterfall Model**

#### **What is the Waterfall Model?**

WATERFALL MODEL is a sequential model that divides software development into pre-defined phases. Each phase must be completed before the next phase can begin with no overlap between the phases. Each phase is designed for performing specific activity during the SDLC phase. It was introduced in 1970 by Winston Royce.

## 2.3: Waterfall Phases

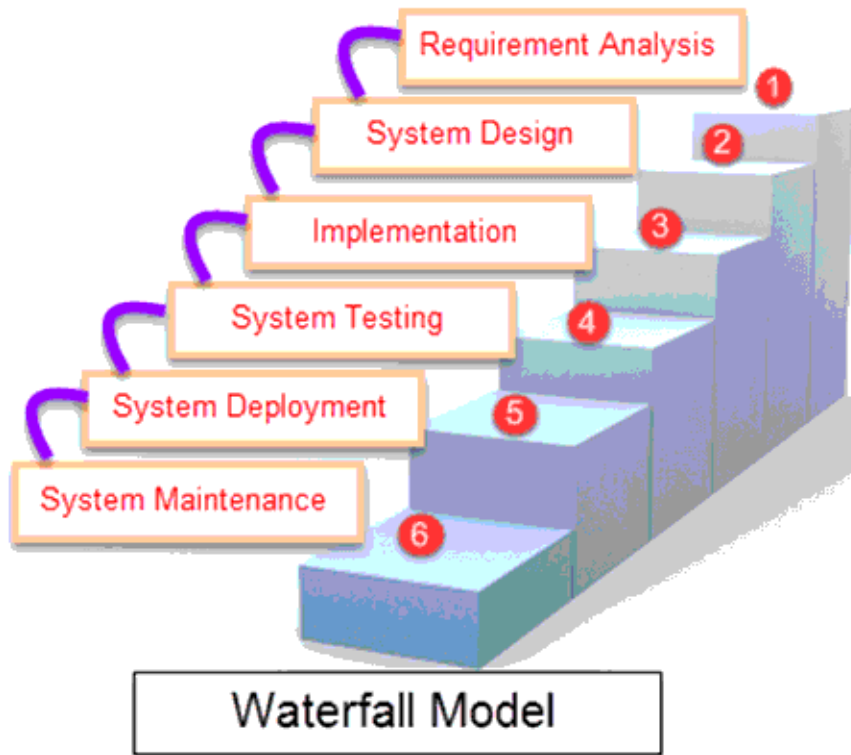


Figure (1) Waterfall Model.

## 2.4: Advantages

- Before the next phase of development, each phase must be completed
- Suited for smaller projects where requirements are well defined
- They should perform quality assurance test (Verification and Validation) before completing each stage
- Elaborate documentation is done at every phase of the software's development cycle
- Project is completely dependent on project team with minimum client intervention
- Any changes in software is made during the process of the development

## 2.5: SDLC Waterfall Model:

S.No	Phase	Activities Performed	Deliverables
1	Requirement Analysis	1. Capture all the requirements. 2. Do brainstorming and walkthrough to understand the requirements. 3. Do the requirements feasibility test to ensure that the requirements are testable or not.	RUD ( Requirements Understanding Document)
2	System Design	1. As per the requirements, create the design 2. Capture the hardware / software requirements. 3. Document the designs	HLD ( High Level Design document)  LLD (Low level design document)
3	Implementation	1. As per the design create the programs / code 2. Integrate the codes for the next phase. 3. Unit testing of the code	Programs Unit test cases and results
4	System Testing	1. Integrate the unit tested code and test it to make sure if it works as expected. 2. Perform all the testing activities (Functional and non-functional) to make sure that the system meets the requirements. 3. In case of any anomaly, report it. 4. Track your progress on testing through tools like traceability metrics, ALM 5. Report your testing activities.	Test cases Test reports Defect reports Updated matrices.
5	System Deployment	1. Make sure that the environment is up 2. Make sure that there are no set 1 defects open. 3. Make sure that the test exit criteria are met. 4. Deploy the application in the respective environment. 5. Perform a sanity check in the environment after the application is deployed to ensure the application does not break.	User Manual  Environment definition / specification
6	System maintenance	1. Make sure that the application is up and running in the respective environment. 2. In case user encounters a defect, make sure to note and fix the issues faced. 3. In case any issue is fixed; the updated code is deployed in the environment. 4. The application is always enhanced to incorporate more features, update the environment with the latest features	User Manual  List of production tickets  List of new features implemented.



### 3: Database Design

What is ER Model?

ER Model stands for Entity Relationship Model is a high-level conceptual data model diagram. ER model helps to systematically analyze data requirements to produce a well-designed database. The ER Model represents real-world entities and the relationships between them. Creating an ER Model in DBMS is considered as a best practice before implementing your database.

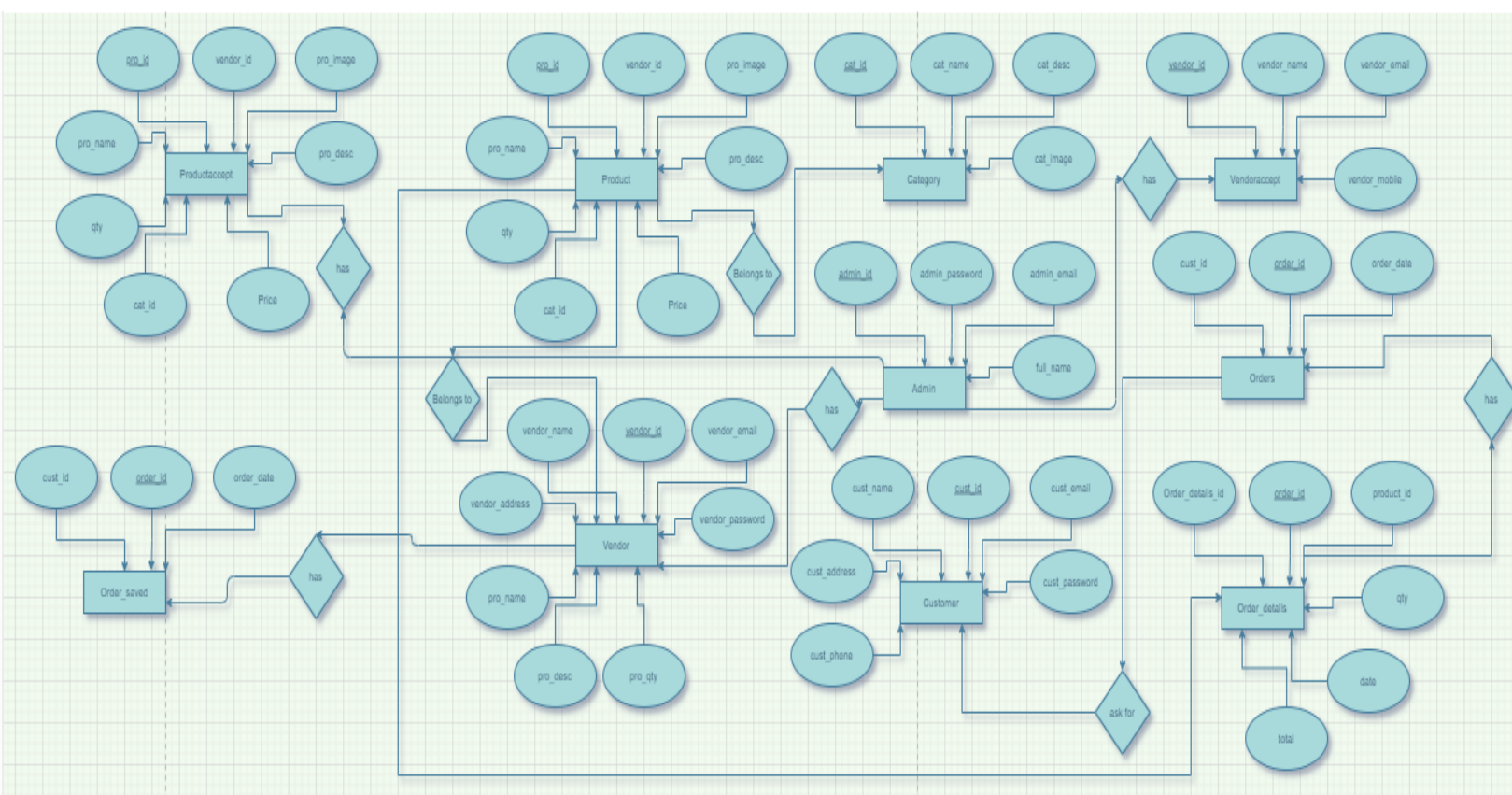


Figure 2: E-Shopping entity-relationship diagram

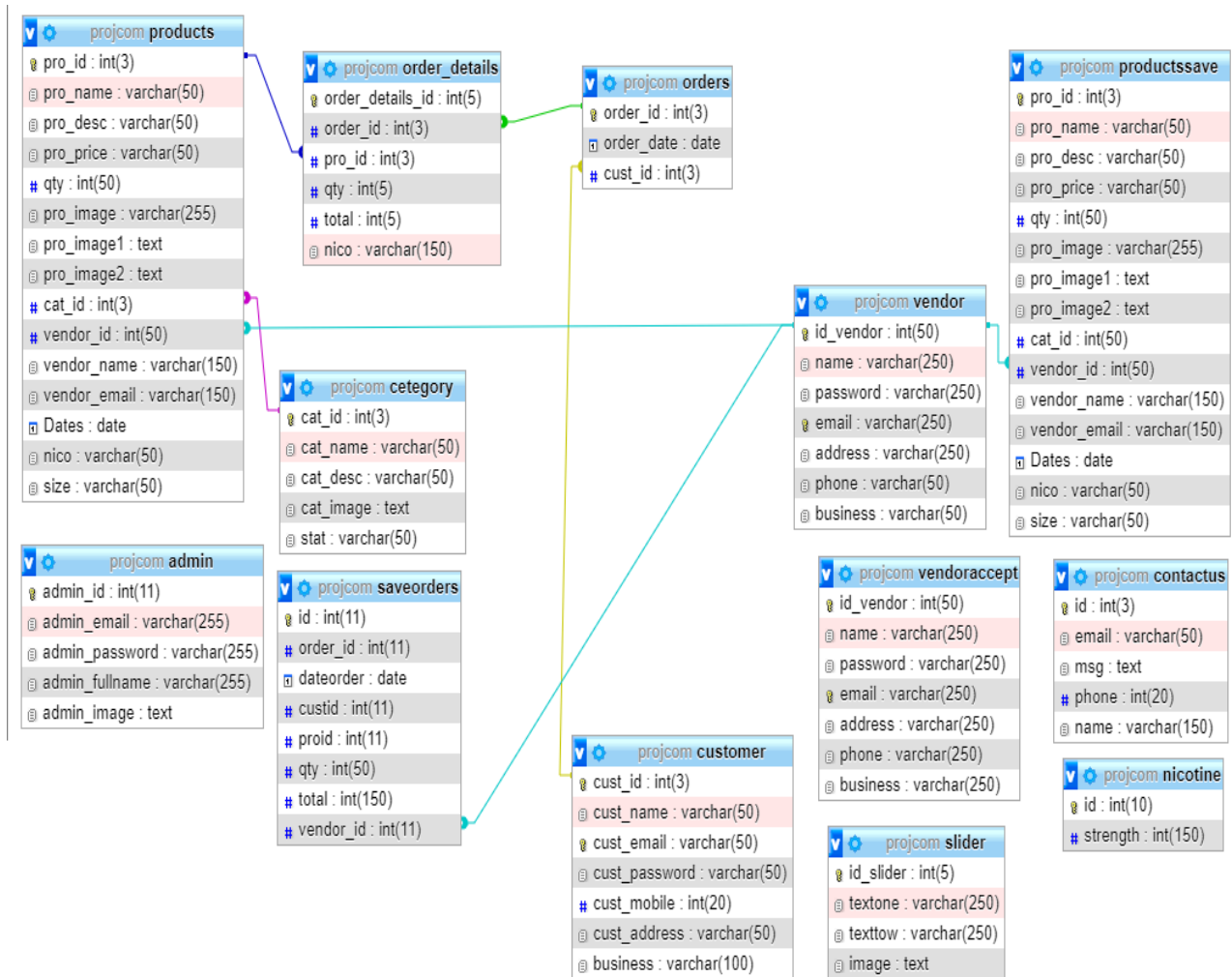


Figure 3: E-Shopping Class diagram

## 4. Conclusion

Summary of the topic through the application of e-commerce in practical life increases the productivity in real life because of its effect of saving time and effort on all parties and the site can be developed in the future to be in line with the requirements of customers and producers and taking into account the technological development in terms of displaying products and different payment methods.

My Project: <https://github.com/Mohammad-404>

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