A5 DD 1

Team #8

Design Document for “Order and Delivery management system” project

Group#08

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Version	Date	Author	Change
0.1	19/03/14	SM	Initial Document

Table of Contents

1 Introduction

1.1 PURPOSE

The purpose of this document is to explain the design and architecture of the “Order and delivery management system”

1.2 SCOPE

This document covers system decomposition, interfaces, and dependencies, as well as design rationale

1.3 DEFINITIONS, ACRONYMS, ABBREVIATIONS

Term	Description

1.4 DESIGN GOALS (DKO)

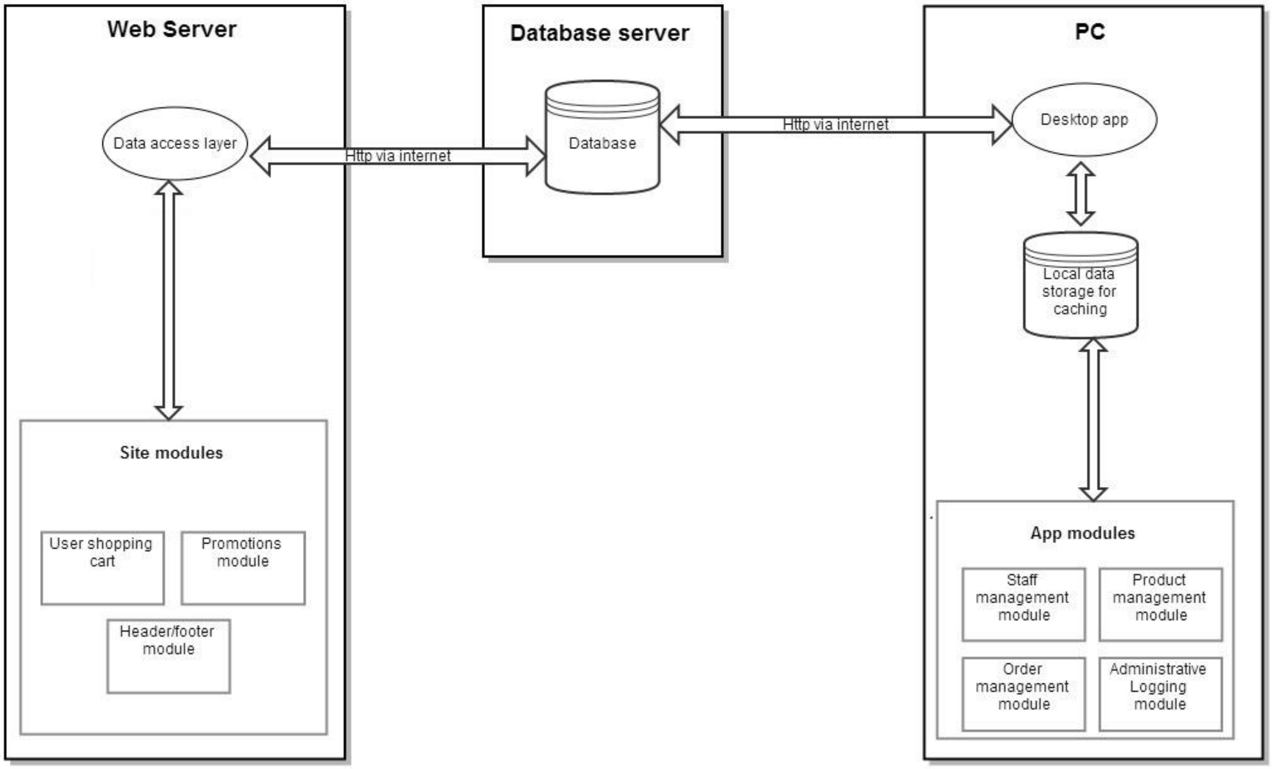
1. Reliability: The core process (major use-cases) must continually function consistently, and loss of any data must be prevented.
2. Maintainability: Our code must be well organized with consistent syntax and relavent naming techniques.
3. Extensibility: The system must facilitate easy extension of the website and application.
4. Response Time: All queries in application and website must give response in 30 seconds including library and database processing time.

2 References

[NONE]

3 Decomposition Description

3.1 MODULE DECOMPOSITION



This project contains desktop application and web site which are connected via database. And consist of 3 layers. Our main (controlling) part is desktop application and it's located in PC layer. Our client side has only web page which has site modules and located in Web Server layer. Last layer is Database server layer. It's bounding layer of other two layers. And it has high priority as desktop application, because it is connects our client side and administrative side.

3.1.1 Staff management module (DKO)

This module is responsible for staff management via desktop application. In this module responsible for managing of staff data. This module has to:

1) Get all data from administration, divide it to small pieces and send the pieces to database.

2) Get data from data cache and show it to administration.

3) By administration’s desire has to delete all data about some staff from database’s staff table’s row by id.

4) By administration’s desire has to edit data’s about some staff from database’s staff table’s row by id.

3.1.2 Product management module (DKH)

This module is responsible for product managing in web site via desktop application. By this module our administration can easily change content of site without code knowledge or other extra knowledge in IT. This module has to:

1) Get all necessary data from data cache, parse it and show in easy GUI form.

2) Get all necessary data from administration that they desire to add, parse it and send it to database.

3) Get all necessary data from administration that they desire to edit, parse it and send it to database.

4) Get all necessary id of product from administration that they desire to delete and send that id to delete proper product from database.

3.1.3 Order management module (AA)

This module is responsible for every order that was come from users via desktop application. By this module our administration can manage orders. This module has to:

1) Get all necessary data from data cache, parse it and show in easy GUI form.

2) Track administrations choice of approve or denial to change status of chosen orders id from database.

3.1.4 Administrative logging module (RB)

This module is responsible for orders logging only for administrator via desktop application. By this module administrator can see all order interactions made by managers. This module has to:

1) Get all necessary data from data cache and show it in easy GUI form.

3.1.5 Session module (AA)

This module is responsible for sessions in our desktop application. This module has to:

1) Get authentication data and validate them before sending to database.

2) Make session for different users and privileges. For example: at the same time there might be sitting administrator and two managers, and they have to make their own deeds without interrupts or privilege changes.

3.2 CONCURRENT PROCESS

3.2.1 Data caching process Description (DKH)

Data caching process is process, which caches all data, which comes from and to desktop application. This process is responsible for data integrity. All queries and data which will be sent to database server, firstly will be checked by this process, and only after checking will be sent to database server.

3.2.2 Data parsing process Description (RB)

Data parsing process is process, which will translate all data from database format to format which will be understandable by web site.

3.3 DATA DECOMPOSITION

3.3.1 <Class 1> Description

3.3.2 <Class 2> Description

3.4 STATES

3.4.1 <State/System 1 > Description

3.4.2 <State/System 2> Description

4 Dependency Description

4.1 INTERMODULE DEPENDENCIES

4.2 INTERPROCESS DEPENDENCIES

4.3 DATA DEPENDENCIES

5 Interface Description

5.1 MODULE INTERFACE

5.1.1 <Module 1> Interface

5.1.2 <Module 2> Interface

5.2 PROCESS INTERFACE

5.2.1 <Process 1> Interface

5.2.2 <Process 2> Interface

6 Detailed Design

NOT REQUIRED <Java Docs to be used instead>

7 Design Rationale

7.1 DESIGN ISSUES

7.2 <ISSUE 1>

7.2.1 Description

7.2.2 Factors affecting Issue

7.2.3 Alternatives and their pros and cons

7.2.4 Resolution of Issue

7.3 <ISSUE 1>

7.3.1 Description

7.3.2 Factors affecting Issue

7.3.3 Alternatives and their pros and cons

7.3.4 Resolution of Issue

8 Traceability

No	Use Case/ Non-functional Description	Subsystem/Module/classes that handles it
1		
2		

FEEL FREE TO ADD APPENDICES AS NEEDED. UPDATE TOC BEFORE SUBMITTING