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Sales Management Portal

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Abstract

In the evolving market, we need to go face tough time to settle down in the business. Looking at the current market perspective in the evolving world running a business with manual database will not have a huge growth. So, we have decided to create a common online portal where clients who only have manual business can move to the online platform at only an affordable price. Initially to start up, we have added three different kind of products like (Cake, Flowers and Chocolates). So, if the client gets approved from us, he can post these three products and do online marketing. This application helps the client to track their sales.
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1. Feature Description:

1.1 Competitive Information:
Looking on the current market perspective in the evolving world running a business with manual database will not have a huge growth. If the customer need to shop any item he need to look at multiple individual websites, so we have bought to a common platform where they can post their orders and market the business.

1.2 Relationship to Other Applications/Projects:
Our application is quite similar to other Sales Management Portals who allow post third party products on their website. When it comes to development of the application budget and time is the biggest issue. We have developed application which doesn’t have Payment Gateway due to lack of time but it is lot more efficient than the Sales Management Portal.

1.3 Assumptions and Dependencies:
The following are the assumptions and dependencies:
When it comes to Assumptions, the application is designed with the basic front end assuming that any individual can access it.
When it comes to Dependencies: Application requires basic software and hardware configuration to run.

1.4 Future Enhancements:
We have added only three products to the application is initially developed to focus on the smaller clients and We will be adding more products and will be enhanced the website depending on the client requirements in future.
We will also be adding the Payment Gateway later once after we get associate with Payment Gateway companies.
We are planning to add more features to the Home Page, Seller Page (Client Page) and Admin Page depending on the Client requirement.
1.5 Definitions and Acronyms:
As it is a well-known existing concept, we didn’t use any Acronyms.

2. Technical Description:

2.1 Project/Application Architecture:
Basically, application architecture starts from the admin. Initially, Sellers (Clients) requests admin to approve the requests that he places to post products on website. Once after Admin authorize the request, it shows up on the home page were user can search for the products and order. If user need to place an order he need to register account mandatory due to security reasons. Also sellers (Clients) needs to create account and it should be authorized by the Admin.

The following image represents the flow of the application. It also tells us about how the user will make the operation. By seeing the following image one can easily understands the working of the application.

User Flow of Application:
Administrator Functionalities:

2.2 Project/Application information flow:
Once after the user opens up the link it directly goes to the home page where user can look for the products, deals, create account, etc., He can look for the categories to shortlist the products, once after he/she finds the product they can create an account to place an order. He needs to enter his personal information and also the address where it needs to be delivered. Later, the customer receives notification once after the order is placed.

2.3 Capabilities: Below are the Capabilities of the Application. Customer can browse products.

i. Customer can place the order.

ii. Customer can create customer account.

iii. Customer can browse categories.

iv. Seller can request Admin to add him to the database.
v. Seller can look at the orders that customer has placed to his specific products.

vi. Admin can authorize sellers and can add products to the database.

3. Project Requirements:

3.1 Identification of requirements:

The following are the requirements which we have been identified:

i. Admin Portal

ii. Seller Portal

iii. Customer Portal

iv. Home Page

3.2 Operations:

Below are the operations that can be performed by user and Client for the usage of application

Customer:

i. Customer can browse products.

ii. He can add the product to cart.

iii. He can place the order.

iv. He can create customer account.

v. He can browse categories.

Client (Seller):

i. Seller can request Admin to add him to the database.

ii. He can look at the orders that customer has placed to his specific products.

Administration:

Below are the operations that are need to be performed by Admin for the usage of application.

i. Admin can activate or inactivate the seller profile.

ii. Admin can add products to website.
iii. He can also update the product details.
iv. Admin can assign the order that is received from the customer.

Maintenance: Maintenance plays a key role for the marketing the portal. If the good reviews flow in market where we can get new customers and clients. Admin need to constantly update the data on database and make sure that database is functioning properly. As there will be huge traffic coming in on festive season and database should be able to handle the situation without break down.

<table>
<thead>
<tr>
<th>Week</th>
<th>Phase</th>
<th>No. of days</th>
<th>Completion dates</th>
<th>Task to be completed</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Requirements gathering and installing the required tools</td>
<td>14 days</td>
<td>09/26/16</td>
<td>Framing of Requirements. Identifying the tools and technologies.</td>
<td>Completed</td>
</tr>
<tr>
<td>2</td>
<td>Designing</td>
<td>10 days</td>
<td>10/6/2016</td>
<td>Representing the application by using the tools.</td>
<td>Completed</td>
</tr>
<tr>
<td>3</td>
<td>Coding</td>
<td>30 days</td>
<td>11/5/2016</td>
<td>Implementing the whole requirements</td>
<td>Completed</td>
</tr>
<tr>
<td>4</td>
<td>Testing</td>
<td>10 days</td>
<td>11/15/2016</td>
<td>Testing whether the requirements are achieved or completed.</td>
<td></td>
</tr>
</tbody>
</table>
Security and Fraud prevention:
When it comes to security, securing of customer personal information is a tough task. We are working very carefully on it and would like to add more features like notifications messages for every login. So that user feel that it is safe to put in information. Application automatically send notification when the customer places the order to avoid fraud.

3.4 Release and Transition plan:

4. Project Design:
The application is designed by using some of UML diagrams.

Use Case Diagram:
Admin Use Case Diagram:

- login
- add product
- update product
- delete product
- accept seller request
- assign order to seller
- delete seller
- logout
System Sequence Diagram:

Admin sequence diagram:
Class Diagram:

Hardware Requirements:

i. Laptop with operating system.
ii. Minimum disk space: 250 MB
iii. Ram: 2GB
5. **Project Internal and external interface description:**

Internal Interface:

It is used to store, retrieve and view the details of the data designed. Below are the tables considered based on the requirements we have taken into consideration of the attributes with desired datatype and also the size of the attribute. Following are the attributes of various tables.

```
mysql> desc admin
+
<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Null</th>
<th>Key</th>
<th>Default</th>
<th>Extra</th>
</tr>
</thead>
<tbody>
<tr>
<td>username</td>
<td>varchar(20)</td>
<td>YES</td>
<td></td>
<td>NULL</td>
<td></td>
</tr>
<tr>
<td>password</td>
<td>varchar(20)</td>
<td>YES</td>
<td></td>
<td>NULL</td>
<td></td>
</tr>
<tr>
<td>email</td>
<td>varchar(30)</td>
<td>NO</td>
<td>PRI</td>
<td>NULL</td>
<td></td>
</tr>
</tbody>
</table>
+---------|-------------|------|------|---------|-------|
3 rows in set (0.01 sec)
```

```
mysql> desc cakes;
+
<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Null</th>
<th>Key</th>
<th>Default</th>
<th>Extra</th>
</tr>
</thead>
<tbody>
<tr>
<td>cakeid</td>
<td>varchar(75)</td>
<td>NO</td>
<td>PRI</td>
<td>NULL</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td>varchar(75)</td>
<td>YES</td>
<td></td>
<td>NULL</td>
<td></td>
</tr>
<tr>
<td>flavor</td>
<td>varchar(20)</td>
<td>YES</td>
<td></td>
<td>NULL</td>
<td></td>
</tr>
<tr>
<td>price</td>
<td>double</td>
<td>YES</td>
<td></td>
<td>NULL</td>
<td></td>
</tr>
<tr>
<td>weight</td>
<td>double</td>
<td>YES</td>
<td></td>
<td>NULL</td>
<td></td>
</tr>
<tr>
<td>description</td>
<td>mediumtext</td>
<td>YES</td>
<td></td>
<td>NULL</td>
<td></td>
</tr>
<tr>
<td>imageName</td>
<td>varchar(75)</td>
<td>YES</td>
<td></td>
<td>NULL</td>
<td></td>
</tr>
<tr>
<td>category</td>
<td>varchar(45)</td>
<td>YES</td>
<td></td>
<td>NULL</td>
<td></td>
</tr>
</tbody>
</table>
+-----------|-------------|------|------|---------|-------|
8 rows in set (0.02 sec)
```
Admin Functionalities:

Admin login page:
## Chocolates

<table>
<thead>
<tr>
<th>Image</th>
<th>Name</th>
<th>Price</th>
<th>Description</th>
<th>Weight</th>
<th>Edit</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Ferrero Rocher" /></td>
<td>Ferrero Rocher, 16 Pieces</td>
<td>$50.00</td>
<td>A creamy filling, a crunchy shell</td>
<td>8.0</td>
<td>Update</td>
</tr>
<tr>
<td><img src="image2" alt="Chocolate Combo" /></td>
<td>Chocolate combo</td>
<td>$40.00</td>
<td>5 different pack of chocolates</td>
<td>3.0</td>
<td>Update</td>
</tr>
</tbody>
</table>

## Deals

- **Types:**
  - `$21268=12coins=chocodelight=flowers=chocolates=comboid`

- **Image Name:** `$21268=12coins=chocodelight=flowers=chocolates=comboid.jpg`

- **Item Name:** Enter item name
- **Price:** Enter price
- **Discount:** Enter discount

**Description:**

Enter Description about Item

Show | Continue
Seller/Client Registration page:

**All Supplier**

<table>
<thead>
<tr>
<th>Company</th>
<th>Supplies</th>
<th>Name</th>
<th>Email</th>
<th>Phone</th>
<th>Status</th>
<th>Edits</th>
</tr>
</thead>
<tbody>
<tr>
<td>flowers</td>
<td>flowers</td>
<td>flowers f</td>
<td>flowers@gmail</td>
<td>9553526603</td>
<td>approved</td>
<td>delete</td>
</tr>
<tr>
<td>sk</td>
<td>chocolates</td>
<td>jamaskashy s</td>
<td>jamaskashy@gmail</td>
<td>9553526654</td>
<td>approved</td>
<td>delete</td>
</tr>
<tr>
<td>makan</td>
<td>flowers</td>
<td>mary goopy</td>
<td>mary6@gmail</td>
<td>7296543486</td>
<td>approved</td>
<td>delete</td>
</tr>
<tr>
<td>country oen</td>
<td>chocolates</td>
<td>raninder reddy</td>
<td>raninder@gmail</td>
<td>2136741259</td>
<td>approved</td>
<td>delete</td>
</tr>
</tbody>
</table>

**Existing Seller Login Here**

Email: [ ]  Password: [ ]

**Sign Up new Seller**

First Name: [ ]  Last Name: [ ]
Email: [ ]  Phone: [ ]
Supplies: [ ]  Company: [ ]
Password: [ ]  Re-Password: [ ]
Seller/Client activities:
External Interfaces:
After the information has been gathered based on which I have done the designing of the interfaces using HTML and JSP, servlets, JSP and MySQL. Below is the interface I have designed.

Design Unit Impacts:

Home Page Design:
Categories: Cakes, Flowers, Chocolates and Deals of the day.
Product Preview and purchase:

User registration page:
Existing user Login Here

Email: [input field]  Password: [input field]

[Submit]  [Reset]

Cart Details

Chocolate Name: [Milano Chocolate, 16 Pieces]
Quantity: 1 pcs
Price: $50.00

Continue
Sender and Delivery details:

Payment Details:

Order notification to Admin:
Order confirmation mail to customer:

```
From: mmafirm@yahoo.com  
To: mamiah.lisa93@gmail.com

Order Confirmed: 201611282587-00

Order ID: 201611282587-00

Item: Chocolate Fudge Cake
   Description: 9x13-inch chocolate fudge cake
   Quantity: 1

Date: Tuesday, November 29, 2016, 6:51 PM
```
6. Project Design Units Impacts:

6.1 Functional Area/Design:

6.1.1 Functional Overview:

As this is an online sales management portal kind of an application where the transactions are electronic and with the help of this application consumer will have the facility to buy his required items from anywhere and at any moment of time thus providing the customers to make their shopping easy and also save time.

The following are the operations that are offered by the application:

i. We can apply many filters to find the appropriate information like sales, transactions, cost etc.

ii. To add or to delete the products, an option is provided as a management console so that these kind of operations should be done by the management.

iii. Every management has the ability of viewing the information regarding the sales like individual sales, daily sales, monthly sales, tracking the information etc.

iv. Providing the registration to the clients, so that the clients will also be able to see the transaction which they have made.
6.1.2 Impacts: As the application flow is clearly specified using the UML diagrams there will not be any ambiguity for the developers to implement the said requirements and for sure customers will be satisfied with the type of application as they are benefitted with the reduce in shopping time, availability of large number of products at one place which gives a better choice option and getting it delivered at the door step.
6.1.3 Requirements:

Below are the requirements:

i. Admin Portal

ii. Client Portal

iii. Customer Portal

iv. Home Page

Admin Portal: The total control of the application and the process is authorized to one person who plays the major role known as administrator as he has the ability to add or delete any kind of information in this application.

Client Portal: Before the client information is entered he should be registered to the application after which he will be given an identification code and only after which he will be a registered user of the application. The data entered at the time of registration will be saved in the database and will be saved to that particular user’s profile only for further reference.

Filter: The filter option enables the users to look for anything specific what he needs compared to all the other things available to him in the application. Ex: the user can search things by applying the filter option to narrow his search among the total number of products available in the applications website.

All requirements covered by the design must be listed with the requirements tag number. It is not necessary to copy the text associated with a requirement number as that will require you to update the design document anytime there is a change in the text.
7. **Open Issues:**

While the implementation of the application we have encountered few issues which had to be implemented like the payment option, information flow from one interface to another. Also, while implementing the cart we have faced few problems but at the end have rectified the issues and the end product produced is free with all the issues and ready to use.

8. **Test Cases:**

i. **Admin functionalities like addition, deletion of items:**

<table>
<thead>
<tr>
<th>Test case 1: Verify add, delete items by the Administrator.</th>
<th>Priority (H, L): High</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Objective: To check all methods and classes are working properly or not</td>
<td></td>
</tr>
<tr>
<td>Test Description: Adding items and deleting items in sales management portal</td>
<td></td>
</tr>
<tr>
<td>Requirements Verified: Yes</td>
<td></td>
</tr>
<tr>
<td>Test Environment: This GUI based application</td>
<td></td>
</tr>
<tr>
<td>Test Setup/Pre-Conditions: not necessary.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Actions</th>
<th>Expected Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tester should enter the items through the interface. He has to delete a product and should check whether deleted or not.</td>
<td>One Item should be added. One item should be deleted</td>
</tr>
<tr>
<td>Pass:</td>
<td>Conditions Pass: Yes</td>
</tr>
<tr>
<td>Fail: No</td>
<td></td>
</tr>
<tr>
<td>Problems / Issues: NIL</td>
<td></td>
</tr>
<tr>
<td>Note: Successfully Executed</td>
<td></td>
</tr>
</tbody>
</table>

ii. **Test Cases: Test Case for Verifying Supplier:**

<table>
<thead>
<tr>
<th>Test case 2: Verifying supplier and giving authorization.</th>
<th>Priority (H, L): High</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Objective: To allow the seller in completing the registration</td>
<td></td>
</tr>
<tr>
<td>Test Description: After entering the supplier details, admin should authorize him in registering.</td>
<td></td>
</tr>
<tr>
<td>Requirements Verified: Yes</td>
<td></td>
</tr>
<tr>
<td>Test Environment: GUI based application.</td>
<td></td>
</tr>
<tr>
<td>Test Setup/Pre-Conditions: Seller registration details should enter.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Actions</th>
<th>Expected Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Admin has to view the information of the seller and giving permission for successful registration.</td>
<td>As per the actions, it is successfully executed</td>
</tr>
<tr>
<td>Pass:</td>
<td>Conditions Pass: Yes</td>
</tr>
<tr>
<td>Fail: No</td>
<td></td>
</tr>
<tr>
<td>Problems / Issues: NIL</td>
<td></td>
</tr>
</tbody>
</table>
Note: Successfully Executed

9. References:


