**IDS 401 Project Report**

*MMECC - Sports Retail E-commerce Website*

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1. Business Information

1.1 Background

MMECC is an online sports retail solution. Its aim is to provide customers with top quality products while also ensuring that customers receives maximum customer service. Seamless integrated database and modern web design, MMECC aims to continue enhancing its User experience and convenience for its customers.

1.2 Objectives

Objectives of Implementing MMECC:

1. Powerful Search function to help customers navigate quickly.
2. Enhanced security with SHA256 encryption.

1.3 Business Value

MMECC can integrate any existing Database/Excel being used by other companies. This gives MMECC competitive edge when we sell this product in the Market.

* 1. Target Audience

The following target market has been identified for the initial go-live of the website.

1. Local Stores in Chicago who are willing to make an online presence can use MMECC.
2. Presently, MMECC has been made for sports industry, but the Database and Front-end pages has been designed in such a manner that other industry needs (Ex - grocery store, book store) can also be accommodated with minor adjustments.

1.5 Impacted Business Areas/Other Affected Groups

**Business Areas**:

1. Login and Logout
2. Search Functionality
3. Cart and Payment Pages

**Affected Groups**

1. General User

2. Business Specifications

|  |  |  |  |
| --- | --- | --- | --- |
| **Category** | **ID** | **Description** | **Comments** |
|  |  |  |  |
| Functionality - 1 |  | **Login Page**  User should be able to enter his/her details by using his User ID and Password.  User should not be able to enter into the website if the details do not match with our Database.  **Registration Page**  Create a registration page where the user can enter his details and get registered with MMECC.  Personal Information will include the following fields:   1. First Name 2. Last Name 3. Phone Number 4. Address 5. User ID 6. Username 7. Email 8. Password   **Password Criteria**:   1. Password needs to be 8-20 characters long 2. Password needs to have at least one upper case character 3. Password needs to have at least one lower case character 4. Password needs to have a minimum of one number 5. Password needs to have at least one special character 6. Password should not contain spaces   If any of above criteria are not met, show an error message to the user where (s)he gets to know which criteria was not met.  **User ID Restrictions**:   1. Username needs to be unique for each user on MMECC 2. Username should not have special characters 3. Username should not be case-sensitive |  |
| Functionality - 2 |  | **Categories on MMECC**  Shirts, Pants, Shoes, Equipment  **Search**  User should be able to enter any brand name and then the simultaneous results should be fetched.  User should also be able to click on the result fetched and he should be taken to the Catalog Page of that product. |  |
| Functionality - 3 |  | **Catalog Navigation**  User should be shown the following on the Catalog page:   1. Name of the product 2. Price of the product 3. Description of the product 4. Image of the Product   The following buttons should also be made on the Catalog Page   1. First Item – should take to the first item of the Category 2. Last Item - should take to the last item of the Category 3. Previous Item - should take to the previous item of the Category 4. Next Item - should take to the next item of the Category 5. Add to cart – the product should be added to the Cart 6. Close – should close the catalog page and take the user back to the Dashboard |  |
| Functionality - 4 |  | **Cart Page**   1. All the items added to the cart by user should get displayed here. 2. User should be provided with the total value of his cart for payment purposes. 3. User should also be given an option of continue shopping on MMECC from Cart page as well. Provide a button for this purpose. 4. User should also be provided with a Checkout Button to make the payment. |  |
| Functionality - 5 |  | **Create a Payment Page for User** – this will enable the User to make a payment on MMECC.  The page should include the following:   1. Name 2. Address 3. Billing Information 4. Payment Methods   **Payment Method**  Potential Solution might include the following. The following list is in decreasing order of usage.   1. MasterCard 2. VISA 3. AMEX, Discover 4. PayPal   Card Information  The page should have the following fields for getting the payment done on MMECC.   1. Credit Card Number 2. Expire Date – there should be a dropdown for Month and Year 3. CVV |  |
| Database Flow |  | ER Diagram for the Phase 1 of MMECC is as below: |  |
| Security Roles |  | The following 2 Security Roles need to be made:   1. General User 2. Admin |  |
| Notifications |  | Future Enhancement Standard notification inventory can be made for notifications to be sent from MMECC’s platform.  This can be implemented based on the local store and their needs. Out of Scope for the present Project. |  |
| Admin Access Requirement |  | Future Enhancement Admin needs to be provided with special privileges where he can do a proxy login as a User.  Admin should also be able to track the progress of each order submitted.  This can be implemented based on the local store and their needs. Out of Scope for the present Project. |  |

3. User Experience

Login Page

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Dashboard

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Search Functionality

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Catalog page

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Description automatically generated

Cart Page

A screenshot of a computer

Description automatically generated

Payment Page

A screenshot of a cell phone

Description automatically generated

4. Recommendation by Professor

**Recommendation** – Provide a delete option for the user on the Cart Page.

**User Experience** - Before Removal of 3G Cardio Elite Runner Treadmill.

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After removal of 3G Cardio Elite Runner Treadmill

A screenshot of a computer

Description automatically generated

**Business Justification** – This will now allow the user to remove items from his cart and enhance the User Experience.

**Business Specification** – User should click on the item he/she wants to remove from the cart and then click on remove Item. The cart should then be updated with changed fields.