**Project Name: Advance e-commerce**

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1. **Introduction**
   1. **Purpose:** Mainly in Dhaka city where people are doing their job and can’t find enough time to go to the grocery store every week to buy their groceries. Who goes shopping most of the time goes without a proper shopping list and spends more than their need. That’s why we are offering a smart web service that can suggest them make a proper shopping list based on 3 parameters. (i) Number of a family member, (ii) Monthly budget, (iii) Based on previous shopping stats. Customers can always edit the suggestion based on their needs. Then customers can order those products online. We will deliver products weekly. The best part is customers can make payments monthly and they can choose a specific time limit on a specific day of the week when s/he wants the delivery (e.g. 7 pm-9 pm, Monday). This way customers can save time and save themselves from overspending.
   2. **Document Convention:** Calibri (Body), Font size: 12.
   3. **Project Scope:** The scope of this project is to study and design a web application that will provide services to the busy families. Deliver products within fixed days of weeks and in a time range. Deliver fresh vegetables and groceries regularly.
   4. **References:**

1. <https://www.daraz.com.bd/>

2. <https://evaly.com.bd/>

3. <https://dhamakashopping.com/>

4. <https://www.foodpanda.com.bd/>

1. **Overall Description**
   1. **Productive perspective:** Design a website for e-commerce where retailer will show products and customers will buy them. Customers will order products and delivery man will bring the products to the customers. This web application will sale products and services but in bit different way. This application will have several users.
   2. **User classes and characteristics:**

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| User Class | Characteristics |
| Admin | Register new Admin or Managers. Monitor business stats and make business deals. |
| Managers | HR manager to verify new delivery mans and new retailers. They also manage their deals.  Accounting and Finance Manager to handle money flow of the business. They also monitor whole market place and where to invest, what offer to run for promotions. |
| Tech support | Tech Support team develop and maintain website and mobile application. Provide updates and upgrades. |
| Customer | Customers will buy services and products from this business. |
| Delivery man | Deliver man will deliver products to customers. |
| Retailer | Retailers will provide products to be delivered. |
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* 1. **Operating Environment:** This system will be developed on Windows10 based Desktops. There will be a web application to run on all platforms and mobile application Android and IOS will be developed in future.
  2. **Design and implementation constraints:** To design this website ASP.NET framework will be used. Programing Language is C# to develop backend, for database MS SQL server will be used. For front end a JS framework ReactJS, bootstrap, CSS, HTML will be used.

Version:

|  |  |
| --- | --- |
| Application and API | version |
| Visual Studio | 2019 |
| ASP.NET framework | 4.5 |
| MS SQL Server | 18.8 |
| HTML | 5 |
| CSS | 3 |
| Bootstrap | 4 |
| React JS | 17.0.2 |

1. **System Features**
   1. **Description of feature:**

**Admin :**

1. Login
2. Add new admin and managers
3. View Retailer and delivery man information
4. View customer information

**HR Manager:**

1. Login
2. Retailer verification
3. Delivery man verification

**Accounting and Finance :**

1. Login
2. Manage Income and expenditure

**Customer :**

1. Self Registration
2. Login
3. Customer Info

* Add Monthly Income
* Number of family members (specify adult and children)
* Monthly expenditure on grocery (range of amount)\*
* Address
* Number of delivery in a month (2/4 per month)
* Number of delivery for Vegetables/Fruits (2-3 in a week)
* Preferable delivery day and time\*

      3. View product

* By shop
* By category
* Search
* Sort
* Suggestion List\*

        4. Add to cart

      5. Checkout

      6. Make payment (Mobile banking, Card)\*

      7. View balance

      8.   Service cancelation (Entirely)

      9. Order Cancelation (Weekly/Monthly)

     10.  Feedback on product and delivery service (optional)

     11.  Discounts/Voucher/Referrals

     12. View stats (Monthly, Category)

**Retailer :**

1. Self Registration
2. Retailer info
   1. Shop name
   2. Shop Address
   3. Bank account information
   4. Verification
3. Add/Update/Disable Product
4. Discount/Voucher
5. View Review and ratings
6. Update delivery information

**Delivery Man :**

1. Self Registration
2. Verification
3. Login
4. View nearest order
5. Accept order
6. Update delivery process
7. View Stats
8. View Review and ratings
   1. **Functional requirements**
      1. The admin shall be able to register new admin or manager so that the system shall let new admin and mangers to login into the system.
      2. The manager shall be able to verify new retailer or delivery man so that the retailer can sell product and the delivery man can delivered product.
      3. The accountant manager shall be able to manage Income and expenditure.
      4. The customer shall be able to register by their own so that they the system shall let new customer login into the system.
      5. The customer shall be able to update their profile
   2. **User Stories (user requirements):**

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| **Sample Use Case** | **Corresponding User Story** |
| Manager registration | As an Admin I want to register new manager so that they can maintain our system. |
| Verify retailer and delivery man | As a manager I want to verify Retailer and delivery man so that in future our system can track them and customer can get better service. |
| Customer Registration | As a customer I want to register my profile into this platform so that I can buy product. |
| Update customer profile | As a customer I want to update my profile so that future purchases are billed to updated information. |
| Order product and cancelation | As a customer I want to order product on my given information and if I don’t want to order then I will cancel my own. |
| Feedback on product and service | As a customer I want to give feedback on product and service so that in future another customer can take decision on purchasing. |
| Customer profile statistics | As a customer I want to view my daily/weekly/monthly statistics so that I can be updated. |
| Retailer Registration | As a retailer I want to register my account so that I can sell product. |
| Update Product | As a retailer I want to update, delete or insert new product into my shop to get customer and keep my shop status updated; |
| Review And Ratings | As a retailer I want to see my shop review that given by customer to solve what type of fault I have done. |
| Delivery Information | As a Retailer I want update delivery information so that customer can get updated about their product. |
| Delivery Man registration | As a delivery man I want create my account so that I can deliver product. |
| Find Order | As a delivery man I want to find customer order to deliver it properly. |
| Delivery Information | As a delivery man I want update delivery information so that customer can get updated about their product. |
| View Statistics | As a delivery man I want see how many delivery I have done. |
| Review And Ratings | As a delivery man I want to see my review that given by customer to solve what type of fault I have done. |

1. **External Interface Requirements**
   1. **User interface:**
   2. **software interface:**
   3. **Hardware interface:**
   4. **Communication interface:**
2. **Quality Attributes**
   1. **Usability:**
   2. **Performance:**
   3. **[others]:**
   4. **Cross-references:**
3. **Data Requirements**
   1. **Logical data model:**
   2. **Data dictionary –s:**