**Project Report**

**KHARIDO UMT**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr.** | **Name** | **ID** | **Stake in assignment** |
| 1 | Shayan Imsal Amir | F2021065209 | Introduction, Domain Analysis, FRs, System Requirements, Use Cases |
| 2 | Ayesha Raza Toor | F2021065290 | NFRs, System Requirements, Use Cases, Use Case Diagram  FRs (update) |
| 3 | Hassaan Ahmad | F2021065214 | Introduction, Domain Analysis, FRs, Use Cases |
| 4 | Syed Moeed Bukhari | F2021065227 |  |

1. **Abstract**

In the world of latest technology the online markets are a big step ahead. The provision of all the resources on footsteps is what the need of hour is. To create a favorable marketing environment for the students of UMT, we are creating this app which would provide a secure and more advanced site for buying/selling any kind of products between the students of UMT using their own student IDs which would create a secured network.

# **1.1 Introduction**

## **1.1.1 Motivation**

Inspiration is the need that drives the littlest strides to the long distance race and prompts accomplish greater objectives. An inspiration can make enormous contrasts and convey incredible changes to the general public and to the world and all the greatest things occurred in this world were the aftereffect of interior inspiration of individuals.

The need of hour is now and again what brings the issues into notice. The difficulties bring along the inspirations to make and imagine. Our perception among our surroundings propelled us to convey something new and imaginative to the market which would help get to a large portion of the general population and would make a formative effect on the general public.

## **1.1.2 Project Overview**

We felt the need of a platform to bring along every one of the student of the university at one spot of online market where they can deal with student and other university individuals about their items. Most student need notes and books from the past semester yet don’t discover the way to do that. Purchasing and selling on different applications like OLX and so on gives a market however there’s no gathering or certification connection among purchaser and dealer. Here the KHARIDO UMT brings the verified system of utilizing an UMT Olx where college students and employees can utilize their college ids to post promotions and purchase items from other college part by gathering them face to face in the college.

The website will allow Users to:

* Login/Register
* Upload / Modify product
* Search for product
* Manage/Update user profile
* Online purchase and sale
* Post items/ads
* Online Payment /cash on delivery
* Provide comments/feedback/reviews
* Add to cart
* Shipment details

### **1.1.3 Vision**

Our Vision is to make our web application popular and helpful for a wide scope of individuals at various platforms. This application would work for various university and regions later on where it would help making a protected and solid system among different platforms.

### **1.1.4Mission**

Our main goal is to give a platform of online market for University of Management and Technology to purchase and sell any sort of items. We would give this support of the individuals from college who might purchase and selling any sort of items on the application. The application would be refreshed with time dependent on the criticism and need of the clients. We would create propelled look and posting alternatives for the clients to associate well.

Although our systems exist in the UMT, and these systems have features like search items, advance search, order placement, and payment through credit card. In our framework, every one of these highlights is incorporated and we will incorporate some development includes in our undertaking like a wide range of affirmations (request look at recognize, request shipping recognize, request conveyance recognize through SMS and E-mail and so forth.). A client who have purchased the things at any rate for the one time will be inform about any new advancement and fresh introductions through SMS and E-mail.

### **1.1.5 Objective**

Our goal is to give simple access to students and faculty and different individuals to the best open doors close-by and build up a trust on our site. This application would help many student to get anything they need inside their range at the platform. We would work more effectively to build our client's trust on the application and giving better facilities to the people by refreshing the application with time dependent on client feedback.

# **Domain analysis**

## **2.1 Customers**

Our clients would be the students and employees of UMT. The application would be utilized by login system where student or faculty doesn't need to make a record rather they simply need to login using there college id and would get the notifications by means of email on their individual ids. The clients would just be the college individuals and no outsiders.

## **2.2 Stakeholders**

|  |  |
| --- | --- |
| Stakeholder | Roles in the system |
| Customer | The university members would post ads of various products and would be meeting the buyers to negotiate about their products prices and check the quality. |
| Site members | These are the people who visited site regularly and have membership with site by subscribing. These customers get notification via emailor SMS about the products they want to buy or sell. |
| Media mainstream | To make site for efficient and trustful media mainstream like ads and others newly highlighted products or services to reduce time consumption. |
| Advertisement source | Ads are coming on the site for latest items |

Table 2: table of stakeholders

# **2.3 Requirements analysis**

## Requirements

* Product Scope:

Product scope is the scope of availability of product and details are visible on site.

* Product type:

These are the total categories showed on website in which any products are available.

* Users:

Users are the customers who visit the site to check the latest items and services and subscribe.

* Users scope:

User scope is to search the items using keywords or by search bar and they don’t need to register to view the products.

* Searching by keyword

Users can search or view the items by given keywords which are used most by customers.

* Deleted posts or new products

Posts are deleted from the site depending upon the availability or newly added items can be shown.

* User subscription

User can subscribe to get notification

## **2.4 List of Actors**

There are three types of actors.

|  |  |
| --- | --- |
| Admin | The role of the admin is to maintain the website and accept the new users to register for an account , they also can update or remove and items. Admin can also block an account if they are miss behaving . |
| Register user | The role of registered user is that they can buy product without registering or making an account because they already have an account but they must be login or sign in to buy items. |
| Guest user | The role of the guest user in our system is they are able to search for a items but cannot buy items/product without making an acount. |

Table 5: list of Actors

1. **Requirements**

**3.1 Functional Requirements**

|  |  |  |
| --- | --- | --- |
| **SR** | **Name** | **Description** |
| FR\_1 | Admin Sign up | The user shall sign up to become a registered user of the website/app and will be able to sell products |
| FR\_2 | Admin Login | The user shall login to the website/app using their respective credentials |
| FR\_3 | User sign up | The user shall sign up to become a registered user of the website/app and will be able to purchase products |
| FR\_4 | User Login | The users shall login to the website/app using their respective credentials |
| FR\_5 | Manage Profile | This user shall be able to manage his/her account details |
| FR\_6 | Guest Mode | The user shall be able to surf on website/app without being registered |
| FR\_7 | Post Product | The user shall be able to post their respective products to be sold |
| FR\_8 | Search Product | The user shall be allowed to search filtered products |
| FR\_9 | View ads | The user shall be able to view all ads |
| FR\_10 | Product Status | The user shall update the current status of the product:   * In-stock * Out-of-stock * Available * Sold |
| FR\_11 | Manage Stock | The user shall be able to check the stock information and order/manage stock accordingly |
| FR\_12 | Add to wishlist | This shall allow users to add certain items to their wishlist which they plan to buy sometime soon. |
| FR\_13 | Add to cart | The users shall be able to add desired products to the cart for purchase |
| FR\_14 | Gateway Payment | This shall allow users to select their desired payment method i.e credit card or by cash |
| FR\_15 | Cart Status | This shall allow the user to check when the parcel will be delivered and the current status of the parcel |
| FR\_16 | Provide Feedback | This shall allow users to add feedbacks to the products they recently purchased which could be read by other users |

* 1. **Non-Functional Requirements**

|  |  |  |
| --- | --- | --- |
| SR | Name | Description |
| NFR\_1 | Performance | The website/app responds to the request within 10s. |
| NFR\_2 | Scalability | This website/app can bear upto 1k customer at a single time. With increased custome,rs this shall be able to handle upto 10k customers |
| NFR\_3 | Portability | The website/app is compatible with IOS/Android/Windows |
| NFR\_4 | Usability | This website works well with whatsapp. |
| NFR\_5 | Compatibility | The system can be used on mobiles, laptops, and tablets |
| NFR\_6 | Reliability | The system will run efficiently and would complete the required task |
| NFR\_7 | Availability | The system is available 24/7. If a website/app is down due to a fault, it will be fixed within 2 hours or as soon as possible |
| NFR\_8 | Maintainability | The system is kept plain and simple so that it allows to fix bugs, enhance performance or other properties, or adapt to a new environment easily. |
| NFR\_9 | Localization | As people from different countries also come to study in UMT, English is kept the medium so that it is reachable to everyone. |
| NFR\_10 | Security | The system include antivirus check to keep from attacks from intruders |

* 1. **System Requirements**

SR\_1: Software

* IOS: IOS 11.0 or above for all IOS devices
* Android: Android 7.0 or above
* Windows: Windows 8 or above

Customers need updated, fast and easy to navigate platforms and latest versions provide this.

SR\_2: RAM

Atleast 1gb of RAM required

SR\_3: Processor

Dualcore processor needed with clockspeed of atleast 1GHZ.

For fast processing, reduce lacking in tasks, and promoting performance and quality of the product.

SR\_4: Internal Storage

Hard Drive atleast 16 GB is required or SSD atleast 4 GB is required.

For storing large sums of data for a long period of time.

SR\_5: Connectivity

Internet connectivity to access system

1. **Use Case Diagram**

Diagram

Description automatically generated

1. **Use Cases**

5.1 Use Case#: UC-1

Use Case Name: Admin Sign-up

Actor: Admin.

Preconditions: Admin must have access the website sign-up page

Post conditions: Account is created for the admin

Basic Flow:

Admin chooses the type of account to be created.

Enters the UMT ID

Enter password

Confirm password (E-1)

Submit Form

Alternative Flows:

E-1: The passwords does not match, system asks the user to re-enter the matching password.

5.2 Use Case#: UC-2

Use Case Name: Admin Login

Actor: Admin.

Preconditions: Admin must have an account associated with his/her ID.

Post conditions: The account associated with the ID is accessed

Basic Flow:

Admin access the website.

Enters the user name (E-1)

Enter password (E-2)

Alternative Flows:

E-1: The account is not created against the ID entered by the user. User must create an account before logging in.

E-2: The password entered is incorrect. Re-enter correct password

5.3 Use Case#: UC-3

Use Case Name: User Sign-up

Actor: User.

Preconditions: User must have access the website sign-up page

Post conditions: Account is created for the user

Basic Flow:

User chooses the type of account to be created.

Enters the UMT ID

Enter password (E-1)

Confirm password (E-1)

Alternative Flows:

E-1: The passwords does not match, system asks the user to re-enter the matching password.

5.4 Use Case#: UC-4

Use Case Name: User Login

Actor: User

Preconditions: User must have an account associated with his/her ID.

Post conditions: The account associated with the ID is accessed

Basic Flow:

User access the website.

Enters the user name (E-1)

Enter password (E-2)

Alternative Flows:

E-1: The account is not created against the ID entered by the user. User must create an account before logging in.

E-2: The password entered is incorrect. Re-enter correct password

5.5 Use Case#: UC-5

Use Case Name: Manage Profile

Actor: Buyer/Seller(User)

Precondition: User has accessed the website or Kharido UMT mobile app and is a registered user.

Post condition: The User shall have managed their profile.

Basic Flow:

The User clicks on My Profile from the Home Screen.

The User clicks on Edit Profile.

Alternative Flow:

No alternate flow.

5.6 Use Case#: UC-6

Use Case Name: Guest Mode

Actor: Guest

Preconditions: User must have access to internet connection and a device with a web browser or an installed app

Post conditions: The user is allowed to roam the website/app without being provided full functionalities

Basic Flow:

User accesses the website.

Alternative Flows:

No alternate flow

5.7 Use Case#: UC-7

Use Case Name: Post Product

Actor: Admin

Preconditions: Admin must have logged into account

Post conditions: The user posts the product on the website

Basic Flow:

User selects the option to add new product

Select the category of the product (E-1)

Add Details of the product its name, description, etc.

Attach image if available (E-2)

Post product

Alternative Flows:

E-1: Category cannot be left empty. Include a category of the product

E-2: If image not available it will display a warning to the user and ask if the user wants to progress without adding image or wants to add an image

5.8 Use Case#: UC-8

Use Case Name: Search Product

Actor: User, admin, guest

Preconditions: Admin must have logged into account

Post conditions: The user searches for the specific product on the website

Basic Flow:

User enters the category from which the user wants to search the data (E-1)

User enters a specific product name to further filter the products (E-2)

Alternative Flows:

E-1 & E-2: Category and name can be left empty and the user can search through all the products to find a desired product

5.9 Use Case#: UC-9

Use Case Name: View ads

Actor: User

Precondition: The user have accessed the product using website or installed app and is roaming or searching for desired product.

Post condition: The user will view product ads.

Basic Flow:

User will access the website and see recommended product ads. (E-1)

Alternative Flow:

E-1: User will search for desired product and see ads accordingly.

5.10 Use Case#: UC-10

Use Case Name: Product Status

Actor: Buyer

Precondition: The user shall be viewing different products from different sellers.

Post condition: The user shall be notified of the product status.

Basic Flow:

The user shall view product ad by clicking on it.

The user shall be notified if the stock is available.(E-1)

Alternative Flow:

E-1: The user shall be shown different ads of similar products from different sellers if the product is out of stock or sold.

5.11 Use Case#: UC-11

Use Case Name: Manage Stock

Actor: Seller

Precondition: The seller shall have added a product for selling which would be available for buyers to order using the product ad.

Post condition: The seller shall manage product stock accordingly.

Basic Flow:

Seller shall view their product inventory.

Seller shall check product stock and information regarding how many products were sold.

Alternative Flow:

No alternate flow.

5.12 Use Case#: UC-12

Use Case Name: Add to wishlist

Actor: Buyer

Precondition: Buyer has accessed the website or Kharido UMT mobile app and is viewing products.

Post condition: The Buyer shall have added the desired product to their wishlist.

Basic Flow:

The Buyer shall view products and add product to the wishlist if he desired to buy items later.

Alternative Flow:

No alternate flow.

5.13 Use Case#: UC-13

Use Case Name: Add to cart

Actor: Buyer

Precondition: Buyer has accessed the website or Kharido UMT mobile app and is viewing products.

Post condition: The Buyer has added an item to their cart.

Basic Flow:

The Buyer views the product and decides to place an order.

The Buyer adds the item to their cart. (E-1)

Alternative Flow:

E-1: Buyer shall click on buy now button to directly proceed to checkout and item will be added to cart.

5.14 Use Case#: UC-14

Use Case Name: Gateway Item

Actor: Buyer

Precondition: Buyer has accessed the website or Kharido UMT mobile app and is viewing products.

Post condition: The Buyer has selected their desired payment method.

Basic Flow:

The Buyer adds the item to their cart. (E-1)

The Buyer click on proceed to checkout and option of payment will be displayed.

Alternative Flow:

E-1: Buyer shall click on buy now button to directly proceed to checkout and item will be added to cart.

5.15 Use Case#: UC-15

Use Case Name: Cart Status

Actor: Buyer

Precondition: Buyer has accessed the website or Kharido UMT mobile app and have ordered products.

Post condition: The Buyer shall be notified of their order status.

Basic Flow:

The Buyer has accessed the Kharido UMT home screen.

The Buyer clicks on pending orders.

Alternative Flow:

No alternate flow.

5.16 Use Case#: UC-16

Use Case Name: Provide Feedback

Actor: Buyer

Precondition: Buyer has bought a product from the app.

Post condition: The Buyer’s feedback will be added to the product page.

Basic Flow:

The Buyer received their order.

The Buyer is asked through mail to provide feedback for the product and provide a link to add feedback. (E-1)

The Buyer first rates the product and then writes their remarks on the service provided.

Alternative Flow:

E-1: The Buyer goes to My Orders from the home screen and clicks on the product they wanna provide feedback for and an option to add feedback will be available.