2.1 User Stories

2.1.1 As an Outsider/ New User

User Story – Anyone can see but students can use the application only.

As a user: I want to see the information and access my account.

Confirmation/Acceptance criteria:

- This website is available for everyone including all information so that all can get an idea about the website.
- Students can access the site and all its features.
- They can access their panels via the login page.
- They can access all the features available in the site after logging in.

2.1.2 As a Registered User

As a registered user – I have to use my credentials to access my account via the login page. Since, I am not a registered user, I need to register my account by inserting my details in the registration page. After completing my registration, I can login the application.

Confirmation/Acceptance criteria:

- New users can input their information in the required fields.
- If required information is missing or doesn't match the requirement, the registration fails and the user needs to amend the errors.
- If registration is successful, they can access the application.

2.1.3 As a Communication Manager

User Story – I need to have a clear concept of the application and be able to handle any issues.

As Communication Manager: First I have to go to the login page to log in to the system. I will be given clearance from the owner of the project to monitor activities.

Confirmation/Acceptance criteria:

- Have limited access to the project.
- They also can monitor the activities of the users.
- Handle and monitor communication issues.

2.1.4 As an Admin

User Story – I want to be able to access the central system and make necessary changes in the project.

As an admin: First I have to go to the login page to log in to the system. I will be able to make changes in the database and update the project if needed directly from the project if the owner wants me to.

Confirmation/Acceptance criteria:

- Needs to be appointed by the owner.
- Can monitor all activities.
- Change or update the database or system if necessary.

2.1.5 As an Owner

User Story – I have full control and access over the application.

As an owner: I can access the application without any login system and make necessary changes and can control who can use my application and to what extents. I can see all activities and have the right to even sell the application.

Confirmation/Acceptance criteria:

- Full control over the project.
- Can make any changes, update, or sell the project.
- Assign admins, developers, managers as per requirement.

2.2 User Classes and Characteristics

There will be 5 types of identities that can control or use the system-

1. Owner
2. Admin
3. Developer
4. Communication manager
5. User

Owner: They have complete control over the project. They are the ones who make the most important decisions. They control who will be the admins, developers, communication managers, literally who can have access to the project and to what levels. They can make any changes or update the project as per requirements and make any decision they want, even sell the project.

Admin: They are selected by the owner and have access to moderate levels of the project. They have access to the central system and can monitor the activities. If required, they can make changes in the database and other services if permitted by the owner.

Developers: They help in developing and updating the program as per the needs of owner. They are maintained by the owners or the admins and therefore have limited access to the project. They are only allowed to make changes to the program as instructed by the higher-ups.

Communication Manager: They monitor the activities of the application, how it works, who and how they are accessing the program and informs the admins or owner.

User: They are the ones who the application is developed for and uses it. They can access only the features that are built for them and make changes to the information that they provide but up to what they are given permission to.

2.3 Operating Environment

The product will be created in a Windows Operating System. This E-commerce system is a website which will operate in all famous browsers. For a model we are talking Google Chrome and Mozilla Firefox. Most of the features will be compatible with Google Chrome and Mozilla Firefox. The only requirement to use this online product would be the Internet connection.

Other Configurations:

- Programming Language: PHP version 8.0.12
- Web Framework: Laravel version 8
- Database: MySQL version 5.5.36
- Frontend: HTML and CSS
- IDE: VS Code/ PhpStorm

2.4 Constraints

The biggest drawback of e-commerce is the issue of security and legal issues. People fear providing personal and financial information, even though several improvements have been made to data encryption. The poor shopping experience and lack of favourable reviews have also created some constraints for the growth of the e-commerce industry. We are trying our best to deliver the best way to gain users' trust.

2.5 Assumptions and Dependencies

The assumptions are:

- The coding should be error free.
- The system should be user friendly so that it is easy to use for the users.
- The system should have more capacity and provide fast access to the database.
- The system should provide a search facility and support quick transactions.
- The digital product e-commerce system is running twenty-four hours a day.
- Users may access from any computer that has internet browsing capabilities and an internet connection.
- Users must have valid email to place order.

The dependencies are:

- The specific hardware and software due to which the product will be run.
- On the basis of listing requirements and specification the project will be developed and run.
- The end users (admin) should have a proper understanding of the product.
- The system should have the general report store.

The information (email) of all users must be stored in a database that is accessible by the system.