# Development Phases

***Note****: The estimated duration of each phase may vary accord to the project needs and complexities*

**Estimated Total Duration**: 1 - 2 month

## Planning Phase

**Estimated Duration**: 1 week

### Tasks

* Project and System Planning
* Gathering Requirements
* Conducting Required Interviews and Discussions
* Creating System Diagrams
* Creating UI Mockup Designs

## First Development Phase

**Estimated Duration**: 2-3 weeks

### Tasks

* Creation of all the Site Pages
* Completion of Frontend Design From Mockups
* Completion of User Interactions and Activities
* Completion of all frontend functionalities

## Second Development Phase

**Estimated Duration**: 2-3 Weeks

### Tasks

* Creation of the Backend System
* Creation of all the API routes
* Database Operations and Management
* Backend Functionalities
* Ecommerce Functionalities

## Third Development Phase

**Estimated Duration**: 1-2 weeks

### Tasks:

* Testing
* Security Checks
* Database Security and Backups
* System Deployment

## Service Phase

**Estimated Duration**: 6 Months

### Servicing Works

1. Software Updates
2. Error and Bug Fixes
3. Design Changes

***Note****: Implementing additional functionalities will be done as a separate job apart from this project*.

# Technologies To Be Used

***Note****: Technologies may change depending upon the project architecture and requirements.*

| Type | Name |
| --- | --- |
| Language | TypeScript (JavaScript) |
| Frontend Framework | Next.js (React.js) |
| Styling | Styled Components |
| Backend Framework | Nest.js (Node.js) |
| API | REST |
| Database | MySQL/PostgreSql |
| Payment Gateways | 2 gateways (Eswa, PayPal) |
| Version Control | Git and GitHub |
| Hosting | Handled by the Gharagan Team |
| Terms and Legalities | Handled by the Gharagan Team |

NF = Not Finalized

# Features And Functionalities

| Type | Related Functionalities |
| --- | --- |
| User Account | * Create Account * Account Login * View Account Information * Edit Account Information * Delete Account * Logout * Forget/Reset Password * Multi-vendor Login |
| Product | * View Product List (Home and Category) * Search Products * Sort Products * Filter Products * View Product Page * Product Image Gallery * Related Products * Add Product to Wishlist * Remove Product from Wishlist * Share Product to Social Media sites |
| User Product Reviews | * Wordpress Style Rating and Reviews * View Ratings and Reviews * Add Ratings and Reviews * Delete Rating and Reviews |
| Purchasing Products | * Add Products to Cart * Remove Products from Cart * Apply Discount Coupon * Checkout Page * Online Payment Functionality * Cash on Delivery Option * View Orders * View Order Details * Cancel Orders |
| Other Site Functionalities | * Send Feedback/Messages through Contact Form * Customer Chat Integration (External) |
|  |  |
| Admin Dashboard | * Product Stats (Out of Stock, Most Sold, Most Ordered) * Order Stats (No. of Placed, No. of Processing, No. of Canceled) * User Stats (No. of Users, Approved/Unapproved Users etc.) * Product in Most Wishlist * Most and Least Ordered Products |
| Admin Product Actions | * Create Product * View Product List * View Product Information * Edit Products Information * Delete Products * Publish Products * Unpublish Products * Approve/Unapprove Product Ratings and Reviews * Create Shipping Costs by Address * Edit Shipping Costs * Remove Shipping Costs * Create Product Categories * Edit Product Categories * Delete Product Categories |
| Admin Wishlist Actions | * View the number of wishlists a product appears on * View the list of users who added the product in their wishlist * Send Promotional Emails to the Users |
| Admin Order Actions | * View Customer Order Details * Change Order Status * Filter Orders by Date * View Orders by their status * Order Delivery Check |
| Admin User Actions | * View User list * View User details * Approve/Unapprove user account * Search user by name * Delete User Account |
| Other Admin Actions | * Send Email to Users * Create/Apply Discount Coupons * Edit Discount Coupons * Delete/Disable Discount Coupons * Import product data from CSV |

# Budget and Payment

**Budget**: Rs. 1,00,000

### Payment Installments

1. 25% - After the planning phase completion
2. 25% - After the 1st development phase completion
3. 25% - After the 2nd development phase completion
4. 25% - After the 3rd development phase completion