**Report on**

**“Online Hardware Store”**

SUBMITTED TO

**Darshan University - Rajkot**

IN FULFILLMENT OF THE REQUIREMENTS FOR THE AWARD OF

**DIPLOMA IN**

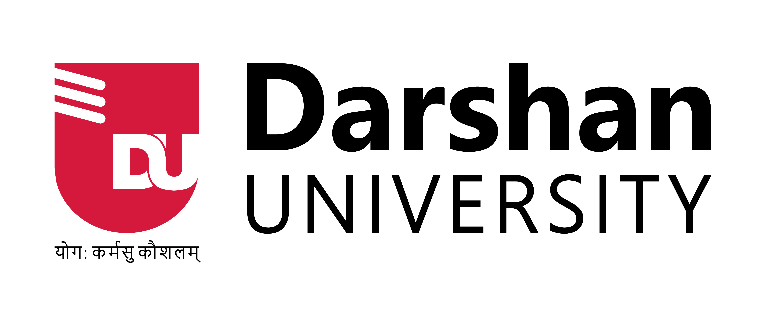
**COMPUTER ENGINEERING**

SUBMITTED BY

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**October – 2023**

**DEPARTMENT OF COMPUTER ENGINEERING**

**DARSHAN INSTITUTE OF ENGG. & TECHNOLOGY FOR DIPLOMA STUDIES**

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**CERTIFICATE**

This is to certify that **Hit D. Bhimani (21020201018)** astudent of the Computer Engineering Department from Darshan University - Rajkot, has satisfactorily completed his project work on **“Online Hardware Store”** in a group consisting of **FOUR** persons under the guidance of Prof. **Asha A. Gondaliya.**

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This is to certify that **Karan K. Songara (21020201074)** astudent of the Computer Engineering Department from Darshan University - Rajkot, has satisfactorily completed his project work on **“Online Hardware Store”** in a group consisting of **FOUR** persons under the guidance of Prof. **Asha A. Gondaliya.**

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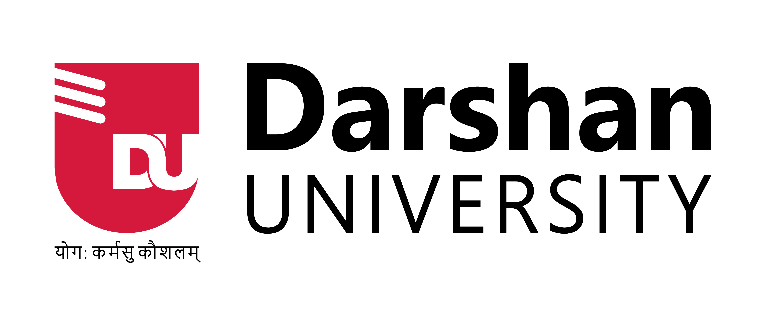
**EXAMINER’S CERTIFICATE OF APPROVAL**

This is to certify that project report entitled **Online Hardware Store**

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In Fulfillment for the award of the diploma in **“Computer Engineering”** of the Darshan University - Rajkot is hereby approved.

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| **Signature of**  **External Examiner** | **Signature of**  **Internal Examiner** |



**October – 2023**

**DEPARTMENT OF COMPUTER ENGINEERING**

**DARSHAN INSTITUTE OF ENGG. & TECHNOLOGY FOR DIPLOMA STUDIES**

**RAJKOT-MORBI HIGHWAY, RAJKOT, GUJARAT**

**ACKNOWLEDGEMENT**

First of all, we thank the almighty for providing us strength and courage to present the project. We avail this opportunity to express our sincere gratitude towards **Prof. Chintan N. Kanani,** **Head of Computer Engineering Department** for permitting us to conduct the project.

We express our cavernous sense of obligation and gratitude to our Guide **Prof. Asha A. Gondaliya** for her genuine guidance and constant encouragement throughout this project work. We are highly obliged to our honorable guide for providing us with such an opportunity to carry out project work under her continuous guidance.

Also, we are very thankful to Darshan University, Computer Engineering Department faculties who supported us in getting our website ready. We also wish to express our heartfelt appreciation to our family, colleagues and many who have rendered their support for the successful works towards the completion of the project work, both explicitly and implicitly.

We also thank to our friends who suggested right way for the improvement of our project, they gave us complete support for the development of our project according to guideline. We deeply acknowledge mutually to all project supporter for their never-ending encouragement, moral support and patience during the preparation of this project.

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**ABSTRACT**

**Online Hardware Store** is a virtual retail platform dedicated to providing a comprehensive tools and equipment for a variety of purposes. Shoppers can product catalog featuring hand tools, power tools, machinery, accessories, and specialized equipment for construction, automotive, woodworking, and projects. In this application, user can register and then login through valid username and password. An online hardware store is a digital retail platform that offers a wide range of hardware products and tools for various application These stores e-commerce technology to provide customers with a convenient and accessible way to browse, select, and purchase hardware items. Customer can explore a deserver catalog of products, including hand tools, power tools, electrical components, and home improvement products.

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| 1. **INTRODUCTION** |
| **1.1 PROBLEM SUMMARY** |
| * + 1. ***Problem Identification***   In the previous system, had to go to the hardware shop to buy a hardware, ask for discount, going at hardware shop for time of the shop, people were not free at shop’s time. It’s not easy to the find and keep customer’s especially when the startup. Our website needs to be easy to use, but not sure how to do. We need to have enough but not too much stock. |
|  |
| * + 1. ***Problem Solution***   To solve above problems, I have created a “Hardware Website”. Then user can select the tools of his choice to available discount. Once the hardware order is after user can cancelled order. An E- Commerce is also sent to the user via email when user ordered a hardware. E-Commerce site available 24 hours. Variety of goods products are available. Work closely with suppliers and use software to keep ingredients and deliveries in check. Listen to what customers say and use their feedback to get better. Offer reliable delivery and maybe partner with local delivery services. |

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| 1. **PLANNING** |
| **2.1 MODEL DESCRIPTION** |
| Feasibility study  Requirement analysis and specification  Design  Maintenance  Integration and system testing  Coding and unit testing |
| **Fig. 2.1 Iterative Waterfall Model**   * In our project we are using iterative waterfall model. * It is not possible to strictly follow the classical waterfall model. * Making necessary changes to the classical waterfall model so that it becomes applicable to practical software development projects. * The main change to the classical waterfall model is in the form of providing feedback paths from every phase to its preceding phases as shown in figure. * The feedback paths allow for correction of the errors committed during a phase as and when these are detected in a later phase. * For example, if during testing a design error is identified then the feedback path allows the design to be reworked and the changes to be reflected in the design document. * There is no feedback path to the feasibility stage. This means that the feasibility study errors cannot be corrected.   **Requirements analysis and specification**   * The aim of the requirements analysis and specification phase is to understand the exact requirements of the customer and to document them properly. This phase consists of two distinct activities, namely * Requirements gathering and analysis, and * Requirements specification * The goal of the requirement’s gathering activity is to collect all relevant information from the customer regarding the product to be developed. This is done to clearly understand the customer requirements so that incompleteness and inconsistencies are removed. * The requirements analysis activity is begun by collecting all relevant data regarding the product to be developed from the users of the product and from the customer through interviews and discussions. * During SRS activity, the user requirements are systematically organized into a Software Requirements Specification (SRS) document.   **Design**   * During the design phase the software architecture is derived from the SRS document. Two distinctly different approaches are available. * Traditional design consists of two different activities; first a structured analysis of the requirements specification is carried out where the detailed structure of the problem is examined. During structured design, the results of structured analysis are transformed into the software design.   **Coding and unit testing (Implementation)**   * The purpose of the coding and unit testing phase of software development is to translate the software design into source code. Each component of the design is implemented as a program module. The end-product of this phase is a set of program modules that have been individually tested. * Each module is unit tested for determine the correct working of all the individual modules.   **Integration and system testing**   * Integration of different modules is done once they have been coded and unit tested. During the integration and system testing phase, the modules are integrated in a planned manner. * Finally, when all the modules have been successfully integrated and tested, system testing is carried out. The goal of system testing is to ensure that the developed system conforms to its requirements laid out in the SRS document. System testing usually consists of three different kinds of testing activities. * α – testing: It is the system testing performed by the development team. * β – Testing: It is the system testing performed by a friendly set of customers. * Acceptance testing: It is the system testing performed by the customer himself after the product delivery to determine whether to accept or reject the delivered product.   **Maintenance**   * Maintenance involves performing any one or more of the following three kinds of activities: * Correcting errors that were not discovered during the product development phase. This is called corrective maintenance. * Improving the implementation of the system, and enhancing the functionalities of the system according to the customer’s requirements. This is called perfective maintenance. * Porting the software to work in a new environment. For example, porting may be required to get the software to work on a new computer platform or with a new operating system. This is called adaptive maintenance. |
| **2.2 RISK MANAGEMENT**   * The aim of risk management is to reducing the impact of all kind of risks that might affect a project. Risk management consists of three essential activities: risk identification, risk assessment, and risk containment.   **Risk Identification**   * A software project can be affected by a large variety of risks. In order to be able to systematically identify the important risks which might affect a software project, it is necessary to categorize risks into different classes. * The project manager can then examine which risks from each class are relevant to the project. There are three main categories of risks which can affect a software project:   **Project Risks**   * Project risks concern varies forms of budgetary, schedule, personnel, resource, and customer-related problems. An important project risk is schedule. It is very difficult to monitor and control a software project. * It is very difficult to control something which cannot be seen. * The invisibility of the product being developed is an important reason for many software projects failure. * So, in our project we are trying to resolve this kind of project risk which is also known as schedule risk.   **Technical Risks**   * Technical risks concern design, implementation, interfacing, testing, and maintenance problems. * Technical risks also include ambiguous specification, incomplete specification, changing specification, technical uncertainty. Most technical risks occur due to the team member’s insufficient knowledge about the project. * So in order to prevent this risk, we have done appropriate project analysis before starting our project.   **Business Risks**   * This type of risks includes risks of building an excellent product that no one wants, losing budgetary or personnel commitments, etc.   **Risk Assessment**   * Risk assessment involves identifying risk, analyzing them and then assigns priority to them on the basis of the analysis. * The objective of risk assessment is to rank the risks in terms of their damage. For risk assessment, first each risk should be rated in two ways: * The probability of a risk coming true (denoted as r). * The result of the problems associated with that risk (denoted as s). * Based on these two factors, the priority of each risk can be computed:   **p = r \* s**   * Where, p is the priority with which the risk must be handled, r is the probability of the risk becoming true, and so is the result of damage caused due to the risk becoming true. If all identified risks are prioritized, then the most likely and damaging risks can be handled first and reject procedures can be designed for these risks.   **Risk Containment**   * After all the identified risks of a project are assessed, plans must be made to containment the most damaging and the most likely risks. * Different risks require different containment procedures. In fact, most risks require expertness on the part of the project manager in handling the risk. * There are three main strategies to plan for risk containment: * **Avoid the risk:** This may take several forms such as discussing with the customer to change the requirements to reduce the scope of the work. * **Transfer the risk:** This strategy involves getting the risky component developed by a third party. * **Risk reduction:** This involves planning ways to containment the damage due to a risk. * To choose between the different strategies of handling a risk, the project manager must consider the cost of handling the risk and the corresponding reduction in risk. * For this we may compute the risk leverage of the different risks. Risk leverage is the difference in risk divided by the cost of reducing the risk. * **Risk leverage = (Risk before reducing - Risk after reducing) / cost of reducing** |

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| 1. **DETAIL DESCRIPTION** |
| **Admin\_Master** |
| Admin details are stored in this module. Admin can login to the system and manage the entire system. |
| * **ad\_id:** - ID of Admin. * **ad\_username: -** username of Admin. * **ad\_password: -** Password of Admin |
|  |
| **Customer\_Master** |
| |  | | --- | | User can visit to the site and help them to find product, view image, and detail, product | | Add to cart, checkout, select payment mode, place order, give feedback, logout. | |
| * **cus\_id: -** ID of Customer. * **cus\_name: -** Name of Customer. * **cus\_email: -** Emailed of Customer. * **cus\_contactno:** - Contact Number of Customer. |
|  |
| **Category\_Master** |
| This module stores categories of products. Product categories can be added and managed. by the admin. It contains the name of a category. |
| * **cat\_id**: - ID of Category. * **cat\_type**: - Type of Category. * **cat\_name**: - Name of Category. * **pro\_id**: - ID of Product. |
|  |
| **Payment\_Master** |
| Payment module allow user to pay fare to any product as well as buy. |
| * **pay\_id**: - ID of Payment. * **pay\_type**: - Type of Payment. * **pay\_id**: - ID of Customer. * **pay\_date**: - Date of Product. * **pay\_description**: - description of Payment. * **pay\_amount: -** amount of Payment. |
|  |
| **Product\_Master** |
| This module stores product details like product name, product price, product description, etc. product's details can be managed and added by the admin. |
| * **pro\_id**: - ID of Product. * **pro\_name**: - name of Product. * **pro\_decription**: - description for Product. * **pro\_price**: - price of Product. * **pro\_status**: - status for Product. |
|  |
| **Order\_Master** |
| Order details like order status, payment status, order amount, etc. are stored in this module. Admin can manage order details. |
| * **ord\_id**: - ID of Order. * **pro\_id**: - ID of Product. * **pro\_date**: - Date of Order. * **ord\_status**: - status of Order. |
|  |
| **Billing\_Master** |
| Bill details are stored in this module. Admin can manage bill details. |
| * **bill\_id: -** id for Bill. * **bill\_number: -** number for Bill. * **bill\_date: -** date for Bill. * **bill\_amount: -** amount for Bill. * **bill\_status: -** status for Bill. |

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| 1. **DIAGRAMS** |
| **4.1 CLASS DIAGRAM** |
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|  |
| **Fig. 4.1 Class Diagram of Online Hardware Store** |
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|  |
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|  |
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|  |
| **Fig. 4.7.2 Data Flow Diagram Level 1 for Admin of Online Hardware Store** |
| ***4.7.3 DATA FLOW DIAGRAM LEVEL 1 FOR USER*** |
|  |
|  |
| **Fig. 4.7.3 Data Flow Diagram Level 1 for User of Online Hardware Store** |

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| 1. **DATA DICTIONARY** |
| **5.1 Database Tables** |
| ***Table 5.1.1: Admin\_Master***   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **Admin\_Master** | | | | | | | **Field Name** | **Datatype** | **Size** | **Constraint** | **Reference** | **Description** | | ad\_id | int | - | PRIMARY KEY | - | It describes Admin Id | | ad\_email | varchar | 200 | NOT NULL | - | It describes Admin email\_id | | ad\_password | varchar | 200 | NOT NULL | - | It describes Admin password | |
|  |
| ***Table 5.1.2: Reviews\_Master***   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **Reviews\_Master** | | | | | | | **Field Name** | **Datatype** | **Size** | **Constraint** | **Reference** | **Description** | | rev\_id | int | - | PRIMARY KEY | - | It describes Review Id. | | cus\_id | int | - | FOREIGN KEY | Customer\_Master🡪  cus\_id | It describes Customer Id. | | pro\_id | int | - | FOREIGN KEY | Product\_Master🡪  pro\_id | It describes Product Id. | | rev\_comment | varchar | 100 | NOT NULL | - | It describes Reviews Comment. | | rev\_date | datetime | - | NOT NULL | - | It describes Reviews Date. | |
|  |
| ***Table 5.1.3: Payment\_Master***   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **Payment\_Master** | | | | | | | **Field Name** | **Datatype** | **Size** | **Constraint** | **Reference** | **Description** | | pay\_id | int | - | PRIMARY KEY | - | It describes Payment Id | | pay\_date | datetime | - | NOT NULL | - | It describes Payment Date | | pay\_amount | float | - | NOT NULL | - | It describes Payment Amount | | pay\_type | varchar | 100 | NOT NULL | - | It describes Payment Type | | cus\_id | int | - | FOREIGN KEY | Customer\_Master🡪  cus\_id | It describes Customer Id | |
|  |
| ***Table 5.1.4: Employee\_Master***   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **Employee\_Master** | | | | | | | **Field Name** | **Datatype** | **Size** | **Constraint** | **Reference** | **Description** | | emp\_id | int | - | PRIMARY KEY | - | It describes Employee Id | | emp\_first\_name | varchar | 50 | NOT NULL | - | It describes First Name | | emp\_middle\_name | varchar | 50 | NOT NULL | - | It describes Middle Name | | emp\_last\_name | varchar | 50 | NOT NULL | - | It describes Last Name | | emp\_email\_id | varchar | 50 | NOT NULL | - | It describes Email Id | | emp\_contact\_no | bigint | - | NOT NULL | - | It describes Contact No | | emp\_city | varchar | 50 | NOT NULL | - | It describes Employee City | |
|  |
| ***Table 5.1.5: Category\_Master***   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **Category\_Master** | | | | | | | **Field Name** | **Datatype** | **Size** | **Constraint** | **Reference** | **Description** | | cat\_id | int | - | PRIMARY KEY | - | It describes Category Id | | cat\_name | varchar | 200 | NOT NULL | - | It describes Category Name | | cat\_type | varchar | 200 | NOT NULL | - | It describes Category Type | | pro\_id | int | - | FOREIGN KEY | Product\_Master🡪  pro\_id | It describes Product Id | |
|  |
| ***Table 5.1.6: Order\_Master***   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **Order\_Master** | | | | | | | **Field Name** | **Datatype** | **Size** | **Constraint** | **Reference** | **Description** | | ord\_id | int | - | PRIMARY KEY | - | It describes Order Id. | | ord\_date | datetime | - | NOT NULL | - | It describes Order Date | | ord\_status | varchar | 50 | NOT NULL | - | It describes Order Status | | pro\_id | int | - | FOREIGN KEY | Product\_Master🡪  pro\_id | It describes Product detail | |
|  |
| ***Table 5.1.7: Customer\_Master***   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **Customer\_Master** | | | | | | | **Field Name** | **Datatype** | **Size** | **Constraint** | **Reference** | **Description** | | cus\_id | int | - | PRIMARY KEY | - | It describes Customer Id | | cus\_first\_name | varchar | 200 | NOT NULL | - | It describes First Name | | cus\_middle\_name | varchar | 200 | NOT NULL | - | It describes Middle Name | | cus\_last\_name | varchar | 200 | NOT NULL | - | It describes Last Name | | cus\_email\_id | varchar | 200 | UNIQUE | - | It describes Email Id | | cus\_contact\_no | bigint | 200 | NOT NULL | - | It describes Contact No | | cus\_city | varchar | 100 | NOT NULL | - | It describes Customer City | | cus\_state | varchar | 200 | NOT NULL | - | It describes Customer State | |
|  |
| ***Table 5.1.8: Product\_Master***   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **Product\_Master** | | | | | | | **Field Name** | **Datatype** | **Size** | **Constraint** | **Reference** | **Description** | | pro\_id | int | - | PRIMARY KEY | - | It describes Product Id | | cat\_id | int | - | FOREIGN KEY | Category\_Master🡪  cat\_id | It describes Category Id | | cus\_id | int | - | FOREIGN KEY | Customer\_Master🡪  cus\_id | It describes Customer Id | | pro\_name | varchar | 200 | NOT NULL | - | It describes Product Name | | pro\_detail | varchar | 200 | NOT NULL | - | It describes Product Detail | | pro\_quanity | int | - | NOT NULL | - | It describes Product Quantity | | pro\_price | int | - | NOT NULL | - | It describes Product Price | | pro\_category | int | - | NOT NULL | - | It describes Product Category | | pro\_type | varchar | 100 | NOT NULL | - | It describes Product Type | |
|  |
| ***Table 5.1.9: Billing\_Master***   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **Billing\_Master** | | | | | | | **Field Name** | **Datatype** | **Size** | **Constraint** | **Reference** | **Description** | | bill\_id | int | **-** | PRIMARY KEY | - | It describes Billing Id | | pro\_id | int | **-** | FOREIGN KEY | Product\_Master🡪  pro\_id | It describes Product Id | | ord\_id | int | **-** | FOREIGN KEY | Order\_Master🡪  ord\_id | It describes Order Id | | cus\_id | int | - | FOREIGN KEY | Customer\_Master🡪  cus\_id | It describes Customer Id | | bill\_number | int | - | NOT NULL | - | It describes Billing Number | | bill\_invoice\_no | bigint | - | NOT NULL | - | It describes Billing Invoice no | | bill\_amount | int | - | NOT NULL | - | It describes Billing Amount | | bill\_quantity | int | - | NOT NULL | - | It describes Billing Quantity | |
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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Table 5.1.10: Delivery\_Master***   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **Delivery\_Master** | | | | | | | **Field Name** | **Datatype** | **Size** | **Constraint** | **Reference** | **Description** | | del\_id | int | **-** | PRIMARY KEY | - | It defines id of bill. | | emp\_id | int | **-** | FOREIGN KEY | Employee\_Master🡪  emp\_id | It describes employee Id | | pro\_id | int | **-** | FOREIGN KEY | Product\_Master🡪  pro\_id | It describes Product Id | | cus\_id | int | - | FOREIGN KEY | Customer\_Master🡪  cus\_id | It describes Customer Id | | del\_name | varchar | 100 | NOT NULL | - | It describes Delivery Name | | del\_time | bigint | - | NOT NULL | - | It describes Delivery time | | del\_address | varchar | 100 | NOT NULL | - | It describes Delivery Address | | del\_date | int | - | NOT NULL | - | It describes Delivery Date | | del\_detail | varchar | 100 | NOT NULL | - | It describes Delivery Detail | |

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| **5.2 E-R DIAGRAM** |
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| **Fig. 5.2 E-R Diagram of Online Hardware Store** |
| 1. **SCREENSHOTS** |
| **ADMIN LOGIN** |
|  |
|  |
| **Fig. 6.1 Admin Login Page** |
| * This is admin page for login. * After successful login, admin can access dashboard of the website. |
| **HOME PAGE** |
|  |
|  |
| **Fig. 6.2 Home Page** |
| * This is home page of site. * When user comes on dashboard this page is appear. * User can select categories in this page. |
| **DASHBOARD OF PAGES** |
|  |
|  |
| **Fig. 6.3 Dashboard of Pages** |
| * This is home page of our site. * When user comes on dashboard this page is appear. |
| **DASHBOARD OF PRODUCTS** |
|  |
|  |
| **Fig. 6.4 Dashboard of Product** |
| * This is dashboard of all products. * All the products in website are displayed here. * Here admin can also edit products. |
| **DASHBOARD OF USERS** |
|  |
|  |
| **Fig. 6.5 Dashboard of Users** |
| * This is dashboard of users. * All users are displayed here. * In here dashboard only website admin can choose the role for the users. |
| **TOOL CATEGORY** |
|  |
|  |
| **Fig. 6.6 Tool Category** |
| * The tool category user can see all available tools for all here. * User can view brief detail of patriation tools by click on it. * User can apply filters by their requirement. |
| **CART PAGE** |
|  |
|  |
| **Fig. 6.7 Cart Page** |
| * User can apply discount couped it available. * In cart page user can view list of fashion information that he/she added. |
| **CHECKOUT PAGE** |
|  |
|  |
| **Fig. 6.8 Checkout Page** |
| * In checkout page user need to filed their billing details. * Order details also appear here. * User can make payment Cash on Delivery for purchase order. |
| **CONTACT PAGE** |
|  |
|  |
| **Fig. 6.9 Contact Page** |
| * This is contact us page. * User can contact with us using this page. |

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| **MY ACCOUNT PAGE** |
|  |
|  |
| **Fig. 6.9 My Account Page** |
| * By this page user can view their account details. * And also view previous order payment details. |

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| **SIGN UP PAGE** |
|  |
|  |
| **Fig. 6.9 Sign Up Page** |
| * User can sign up itself by feeling their details. * User need to approve privacy of our website. |

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| 1. **CONCLUSION** |
| **Online Hardware Store** somethings known as a store, sell household hardware for home improvement including: Tools, building materials, hand tools, power tools, power tools, keys, locks, electricals supplies, cleaning products, houseware, tools, paint. Online shopping system is developed by using a proper channel. The objectives of online shopping are pre-defined on which the whole system work to achieve them by managing the details of all customers, payments, bills, products, shopping, and so on. |
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| 1. **FUTURE ENHANCEMENT** |
| In online shopping, customers get many options in the future for mode of payments. Our websites give them the option of online payment through debit or credit cards. Customers have also the option of net banking payment option. It is the objective of an online shopping system to manage all the payment details of each product. |
|  |

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| --- | --- |
| 1. **REFERENCES** | |
| **Description** | **Websites** |
| WordPress | [**www.wordpress.org**](http://www.wordpress.org) |
| Theme: Starter Shop | **www.themeforest.net** |
| Product Image: | [**https://www.amazon.in/**](https://www.amazon.in/)  [**https://www.flipkart.com/**](https://www.flipkart.com/)  [**https://hardwareshack.in/**](https://hardwareshack.in/) |
| Download Website Plugin: |  |
| Contact Form 7 | **https://contactform7.com/** |
| Cart Flow | **https://wordpress.org/plugins/cartflows/** |
| WooCommerce | **https://woocommerce.com/** |
| User Registration | **https://wordpress.org/plugins/user-registration/** |
| Elementor | **https://elementor.com/** |
| WPForms | **https://wpforms.com/** |
| YITH | **https://yithemes.com/themes/plugins/yith-woocommerce** |
| All-in-one Migration | **https://wordpress.org/plugins/all-in-one-wp-migration/** |