Project Report

Easy Accounting

CSE3002- Internet and Web Programming

submitted by

PROJECT ID-34

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1. Abstract:

The objective of this project is to provide views on how to improve the accounting systems of the small enterprises so that they can provide the owners/managers with appropriate financial information. This can be achieved through the identification and exchange of views in the area of accounting systems of small enterprises.
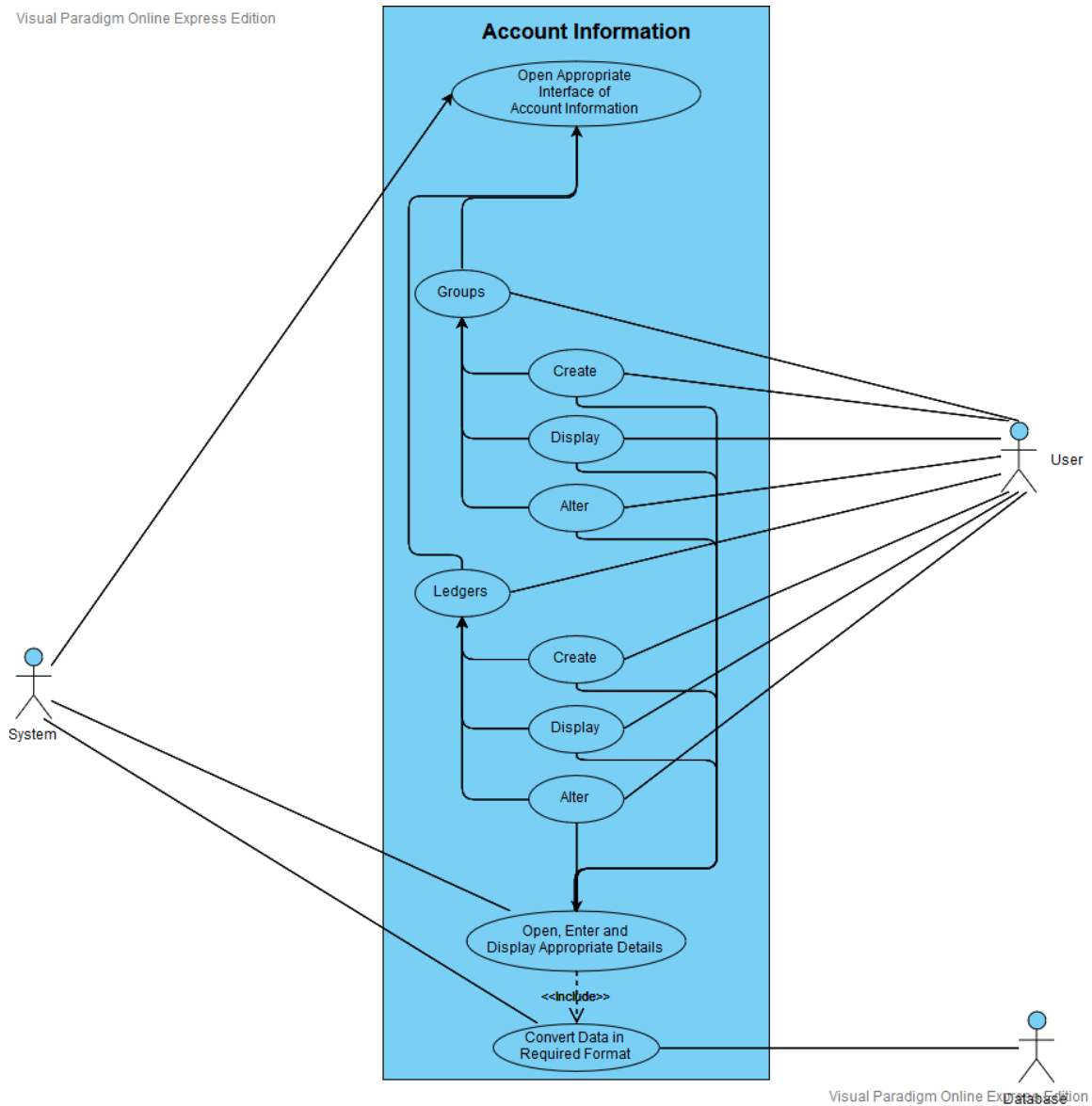
As a result of the project, descriptions of accounting systems, guidance and good practices in the accounting area for small enterprises will be delivered. To accumulate theoretical knowledge with practical experience. To address and understand accounting procedures of a company. To recommend some issues regarding accounting system of the company.

2. Design

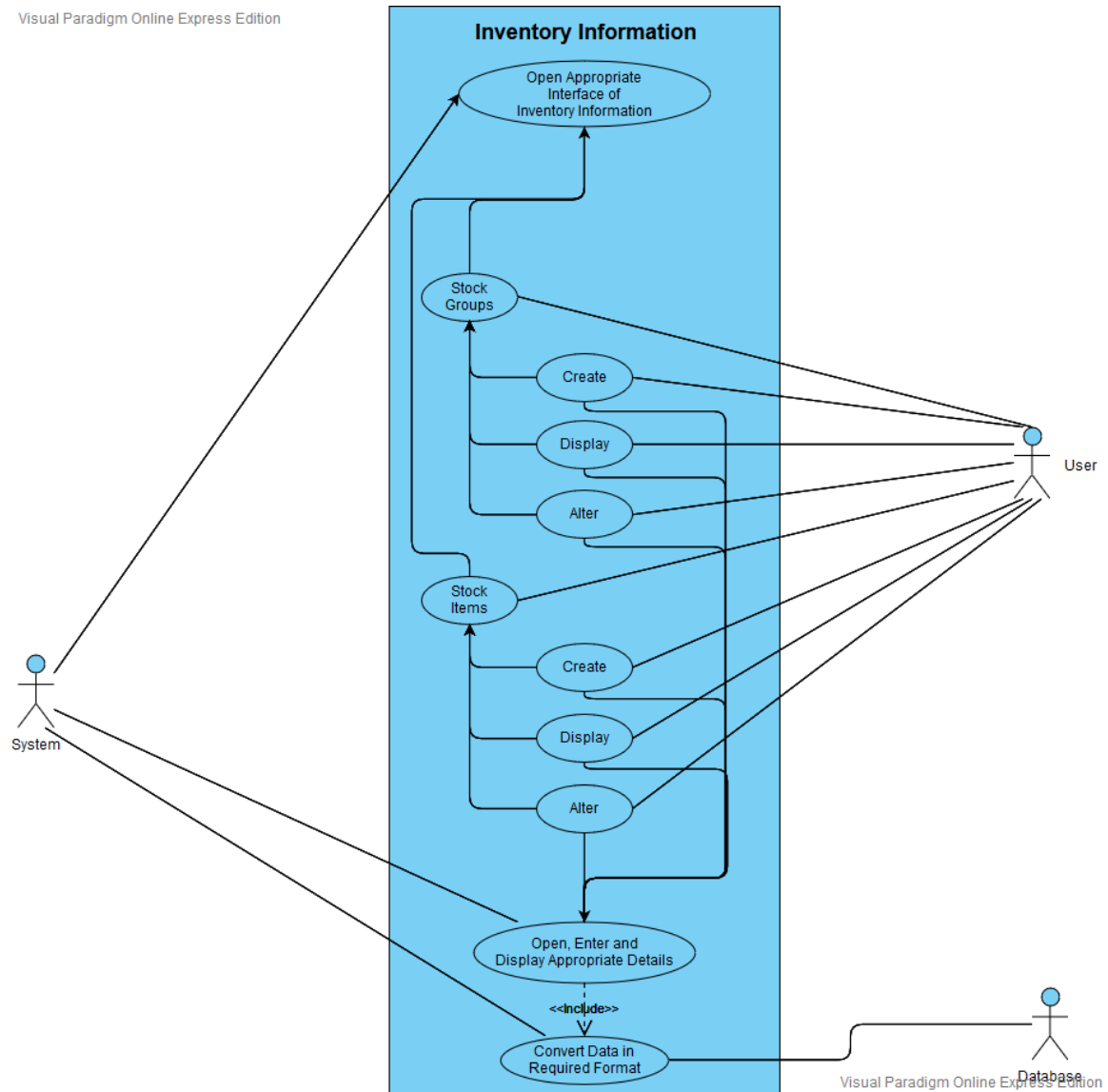## Use Case Diagram

2.1. For Account Information

Account Information

Open Appropriate Interface of Account Information

Groups

Create

Display

Alter

Ledgers

Create

Display

Alter

Open, Enter and Display Appropriate Details

<<Include>>

Convert Data in Required Format

System

User

Database

2.2. For Inventory Information

Inventory Information

Open Appropriate Interface of Inventory Information

Stock Groups

Create

Display

Alter

Stock Items

Create

Display

Alter

Open, Enter and Display Appropriate Details

<<Include>>

Convert Data in Required Format

System

User

Database

2.3. For Accounting Vouchers
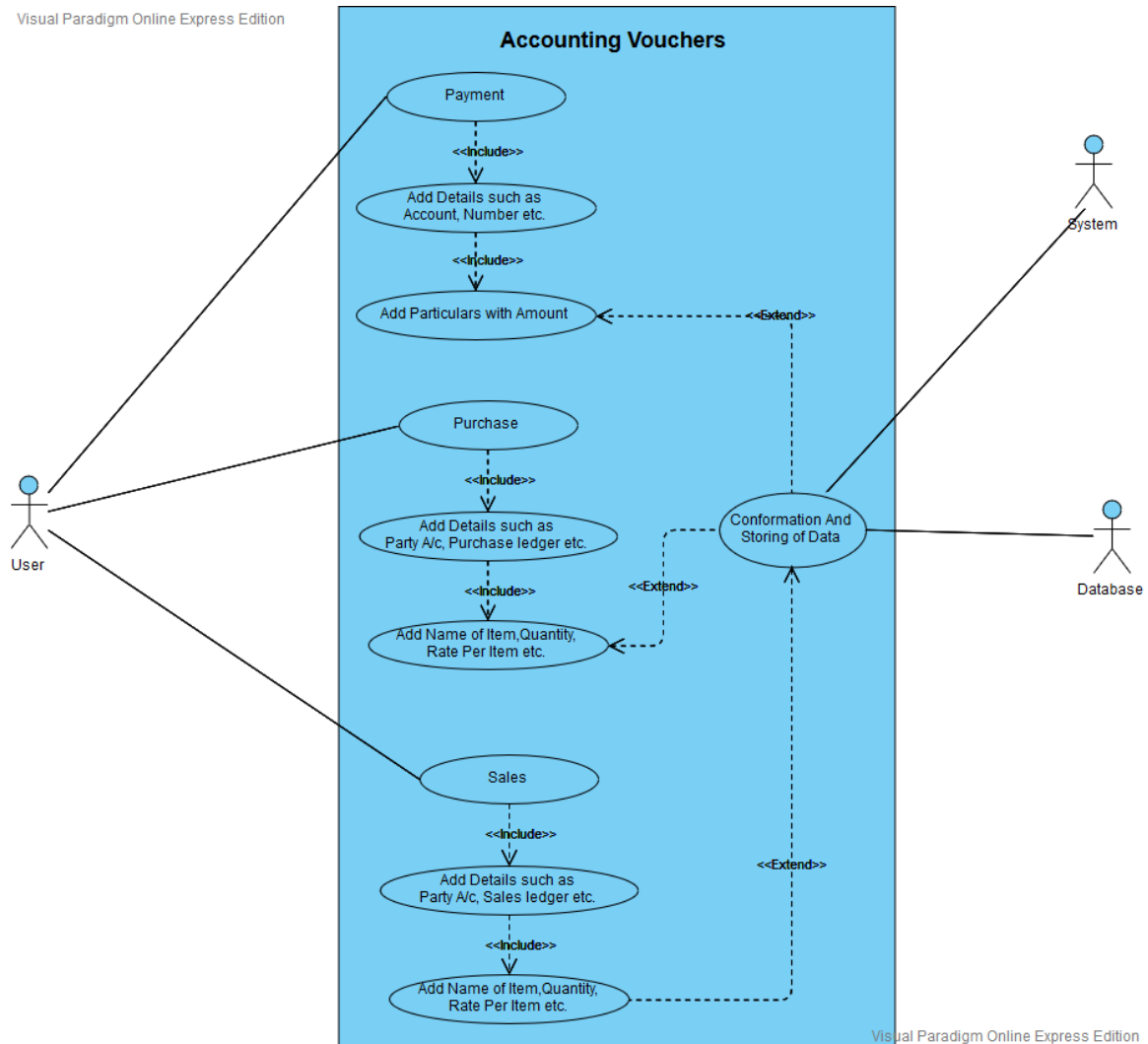
Class Diagram
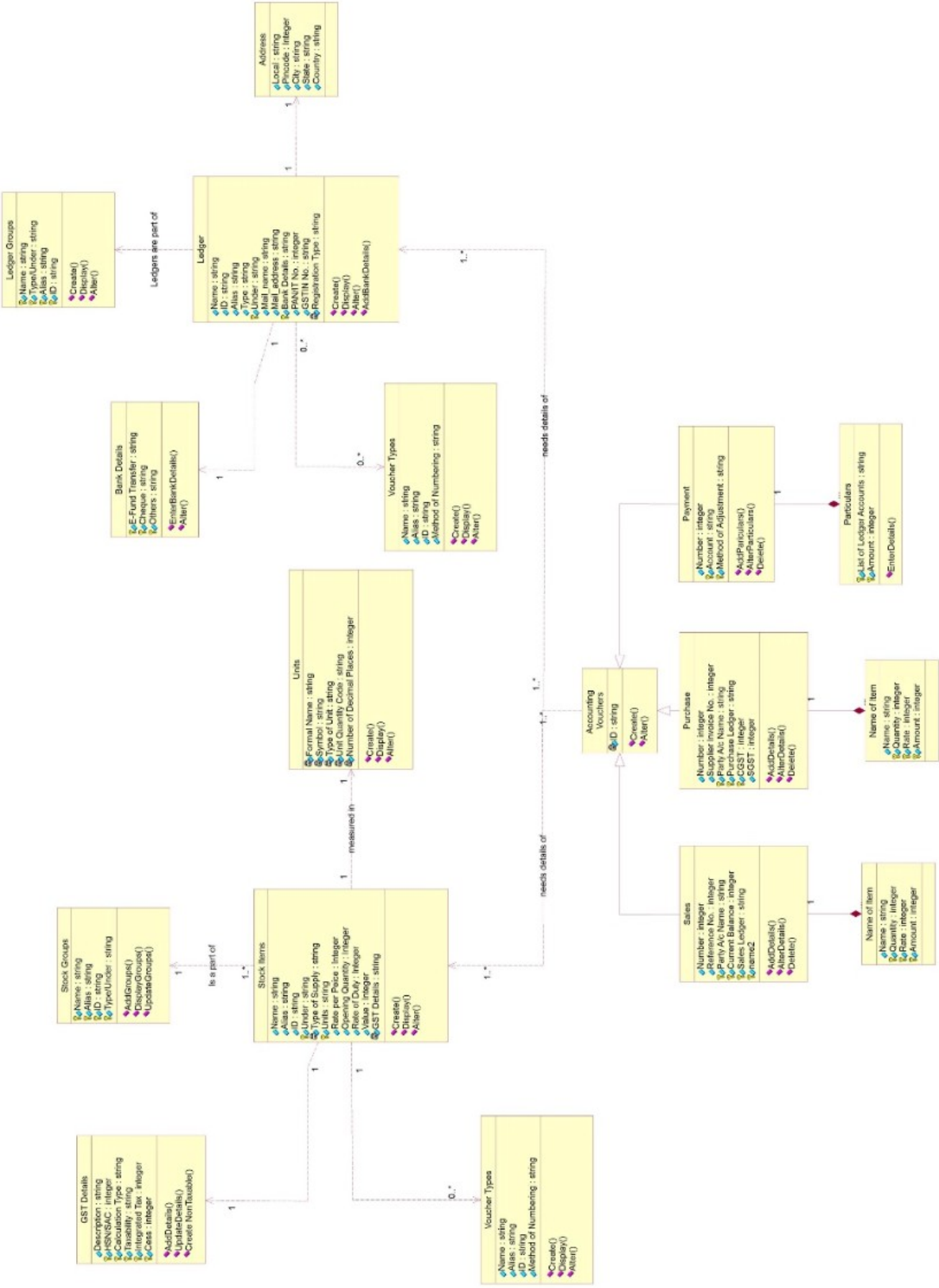
3. Technical details

3.1 External Interface Requirements

3.1.3.1 User Interfaces

- ➢ Front-end: HTML, CSS, JavaScript and jQuery
- ➢ Back-end: Nodejs
- ➢ Database: mongo dB

3.1.3.2 Hardware Interfaces

Client/Server Side:

- ➢ Operating System: Windows xp and above
- ➢ Processor: Pentium 4 or higher
- ➢ RAM: 512 MB or more
- ➢ Hard Drive: 10 GB or more

4. Complete Code of the Project:

For complete code please refer:

https://github.com/saqsham/Accounting-Nodejs

Index page: index.hbs

```
<!doctype html>
<head>
    <!-- Meta tags & title /-->
    <meta charset="utf-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge,chrome=1">
    <title>Easy Accounting - An Easy to Use Free Responsive WebApp</title>
    <meta name="description" content="This is Easy Accounting Website" />
    <meta name="keywords" content="Easy, Elegant, Accounting" />
    <meta name="Easy_Account" content="">
    <!-- Favicon /-->
    <link rel="shortcut icon" href="img/favicon.jpg" type="image/x-icon" />
    <!-- Favicon /-->
    <meta name="viewport" content="width=device-width, initial-scale=1.0, maximum-scale=1">
    <!-- Stylesheets /-->
```

```html
<link rel="stylesheet" href="css/gumby.css">
<!-- Gumby Framework /-->
<link rel="stylesheet" href="css/style.css">
<!-- Main stylesheet /-->
<link rel="stylesheet" href="css/animate.css">
<!-- Animations /-->
<script src="js/modernizr-2.6.2.min.js"></script>
<!-- Modernizr /-->
</head>
<body>
<!-- Preload the Whole Page -->
<div id="preloader">
    <div id="loading-animation"> </div>
</div>
<!-- NAVIGATION ############################################### -->
<div class="cbp-af-header">
    <nav>
        <!-- Logo -->
        <div id="logo">
            <a href="#"><img alt="Logo" src="img/logo.jpg"></a>
        </div>
        <!-- Links -->
        <ul id="nav">
            <li><a href="/login">Login</a></li>
            <li><a href="/register">Register</a></li>
        </ul>
    </nav>
</div>
<!-- END NAVIGATION ############################################### -->
<!-- HEADER / FIRST SECTION ############################################### -->
<section class="page1">
    <!-- Huge Title centered -->
```

```
<div class="huge-title centered">
    <div class="logo-phone centered"><img alt="YOURLOGO" src="img/logo-phone.png"></div>
    <!-- This Logo is only displayed on Tablet/iPhone !-->
    <h1>A Simple & Easy To Use Free App For All <br>Your Account And Bussiness Management</h1>
    <div class="space"></div>
    <a href="#container" class="button-white goto">Discover more</a>
</div>
<!-- IMG DISCOVER MORE -->
<div class="go-down twelve columns">
    <a href="#container" class="goto"><img src="img/down.png" alt="MORE"></a>
</div>
</section>
<!-- END HEADER ############################################## -->
<!-- BEGIN CONTAINER ############################################## -->
<div id="container" class="container">
    <!-- SECOND SECTION ############################################## -->
    <section class="page2">
        <div class="row">
            <div class="six columns article make-it-appear-right">
                <!-- Title -->
                <h3>A Elegant Design</h3>
                <!-- Content -->
                <p>Our website plans to please the users with an awe-inspiring interface which meets all their

                    requirements at the same time. It would be sleek, minimalist and optimal at the same time.
                </p>
                <div class="space"></div>
                <a href="/login" class="js-open-modal button-blue">Login</a>
            </div>
            <!-- Image from right -->
            <div class="five columns picture make-it-appear-left">
```

```html
            <img src="img/1.png" alt="EXEMPLE">
        </div>
    </div>
    <!-- End row div -->
</section>
<!-- END SECOND SECTION ################################################### -->
<!-- TIRTH SECTION ################################################### -->
<section class="page3">
    <div class="row">
        <!-- Image from left -->
        <div class="five columns picture make-it-appear-right">
            <img src="img/2.png" alt="EXEMPLE">
        </div>
        <div class="six columns article make-it-appear-left">
            <!-- Title -->
            <h3>Pretty easy to customize</h3>
            <!-- Content -->
            <p>Our website is designed in such way that it can be very easily customised and molded in such a

                way as to suit all the requirements of the user. We have a wide range of options to choose from,

                to change the style in which the user can

                design their needs.</p>
            <div class="space"></div>
            <a href="/register" class="js-open-modal button-green">Register</a>
        </div>
    </div>
    <!-- End row div -->
</section>
<!-- END TIRTH SECTION ################################################### -->
<!-- Modal Window -->
<div class='modal' id='modal'>
    <div class='modal-content modal-anim--three'>
```

```
            <!--iframe src="//player.vimeo.com/video/64291127?
title=0&amp;byline=0&amp;portrait=0&amp;color=ffffff" width="560" height="306"
frameborder="0" webkitallowfullscreen mozallowfullscreen allowfullscreen></iframe>-->

        </div>

    </div>

    <!-- FOURTH SECTION ############################################### -->

    <section class="page4">

        <div class="row">

            <div class="four columns article make-it-appear-right">

                <!-- Title -->

                <h3>Pretty Simple and Detailed Code.</h3>

                <!-- Content -->

                <p>Here is the simple exemple of the next section, as you can see, everything is pretty
well

                    detailed and easy to understand.</p>

                <div class="space"></div>

            </div>

            <!-- Image -->

            <div class="seven columns picture make-it-appear-left">

                <pre>

                        <!-- Article centered on the Page -->

                            <div class="twelve columns centered make-it-appear-top">

                                <!-- Title -->

                                <h4>Finally! Simple and fair pricing.</h4>

                                <!-- Content -->

                                <div class="cost">

                                        <p class="symbol">₹</p>

                                        <p class="value">0</p>

                                </div>

                            </div>

                </pre>

            </div>

        </div>
```

```html
        <!-- End row div -->

    </section>
    <!-- END FOURTH SECTION ################################################## -->
    <!-- FIFTH SECTION ################################################### -->
    <section class="page5">

        <div class="row">

            <!-- Article centered on the Page -->

            <div class="twelve columns centered make-it-appear-top">

                <!-- Title -->

                <h4>Finally! Simple and fair pricing.</h4>

                <!-- Content -->

                <h1>₹0</h1>

            </div>

        </div>

    </section>
    <!-- END FIFTH SECTION ################################################# -->
    <!-- FOOTER SECTION ################################################## -->
    <section class="footer">

        <div class="row">

            <!-- Article centered on the Page -->

            <div class="nine columns centered">

                <!-- Nav Footer -->

                <!-- Title -->

                <p class="copyright">Easy Accounting is a free app landing website and is under CC
License <br>©

                    Copyright 2019 Easy Accounting. All rights reserved.</p>

                <!-- Logo -->

                <img class="logo" src="img/logo.jpg" alt="Logo">

            </div>

        </div>

    </section>
    <!-- END FOOTER SECTION ################################################## -->

</div>
```

```html
<!-- end of container -->

<!-- Grab Google CDN's jQuery, fall back to local if offline -->
<script src="http://ajax.googleapis.com/ajax/libs/jquery/1.9.1/jquery.min.js"></script>
<script>
    window.jQuery || document.write('<script src="js/jquery-1.9.1.min.js"><\/script>')
</script>
<script src="js/main.js" type="text/javascript"></script>
<!-- Main Javascript File -->
<script src="js/classie.js" type="text/javascript"></script>
<!-- Scroll from left & right -->
<script src="js/waypoints.min.js" type="text/javascript"></script>
<!-- Waypoints -->
<script src="js/jquery.scrollto.js" type="text/javascript"></script>
<!-- ScrollTo -->
<script src="js/mediaCheck.js" type="text/javascript"></script>
<!-- MediaCheck -->


</body>
</html>
```

Login page: login.hbs

<!DOCTYPE html>

<html>

<head>

   <meta charset="utf-8">

   <meta http-equiv="X-UA-Compatible" content="IE=edge">

   <title>{{ title }} | Easy Accounting</title>

   <meta name="description" content="">

   <meta name="viewport" content="width=device-width, initial-scale=1">

   <meta name="robots" content="all,follow">

   <!--link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css" integrity="sha384-ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2MZw1T" crossorigin="anonymous">

   <link rel="stylesheet" href="css/style.default.css" id="theme-stylesheet">

   <link rel="shortcut icon" href="img/favicon.jpg"-->

   <link rel="stylesheet" href="vendor/bootstrap/css/bootstrap.min.css">

   <!-- Font Awesome CSS-->

   <link rel="stylesheet" href="vendor/font-awesome/css/font-awesome.min.css">

   <!-- Custom Font Icons CSS-->

   <link rel="stylesheet" href="css/font.css">

   <!-- Google fonts - Muli-->

   <!--link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Muli:300,400,700"-->

   <!-- theme stylesheet-->

   <link rel="stylesheet" href="css/style.default.css" id="theme-stylesheet">

   <!-- Custom stylesheet - for your changes-->

   <link rel="stylesheet" href="css/custom.css">

```html
<!-- Favicon-->
<link rel="shortcut icon" href="img/favicon.ico">
<link rel="stylesheet" href="css/bootstrap-datetimepicker/bootstrap-
datetimepicker.min.css">
<link rel="stylesheet" href="css/bootstrap-select/bootstrap-select.min.css">
<link rel="stylesheet" href="DataTables/datatables.min.css">
</head>
<body>
    <div class="login-page">
        <div class="container d-flex align-items-center">
            <div class="form-holder has-shadow">
                <div class="row">
                    <!-- Logo & Information Panel-->
                    <div class="col-lg-6">
                        <div class="info d-flex align-items-center">
                            <div class="content">
                                <div class="logo">
                                    <h1>Easy Accounting</h1>
                                    <!-- <h1>Dashboard</h1>-->
                                </div>
                                <p>If you are returning visitor, please provide your User
Name and Password.</p>
                                <p> {{ loginForm }} </p>
                            </div>
                        </div>
                    </div>
                    <!-- Form Panel    -->
                    <div class="col-lg-6">
```

```html
<div class="form d-flex align-items-center">
    <div class="content">
        <form method="post" class="form-validate mb-4" action="/user/login" >
            <div class="form-group">
                <input id="login-username" type="text" name="email" required data-msg="Please enter your email" class="input-material">
                <label for="login-username" class="label-material">Email</label>
            </div>
            <div class="form-group">
                <input id="login-password" type="password" name="password" required data-msg="Please enter your password" class="input-material">
                <label for="login-password" class="label-material">Password</label>
            </div>
            <button type="submit" class="btn btn-primary">Login</button>
        </form><a href="#" class="forgot-pass">Forgot Password?</a><br><small>Do not have an account? </small><a href="/register" class="signup">Signup</a>
    </div>
</div>
</div>
</div>
<div class="copyrights text-center">
    <p>Design by <a href="#" class="external">Kunj | Bhuvnesh | Saksham</a></p>
```
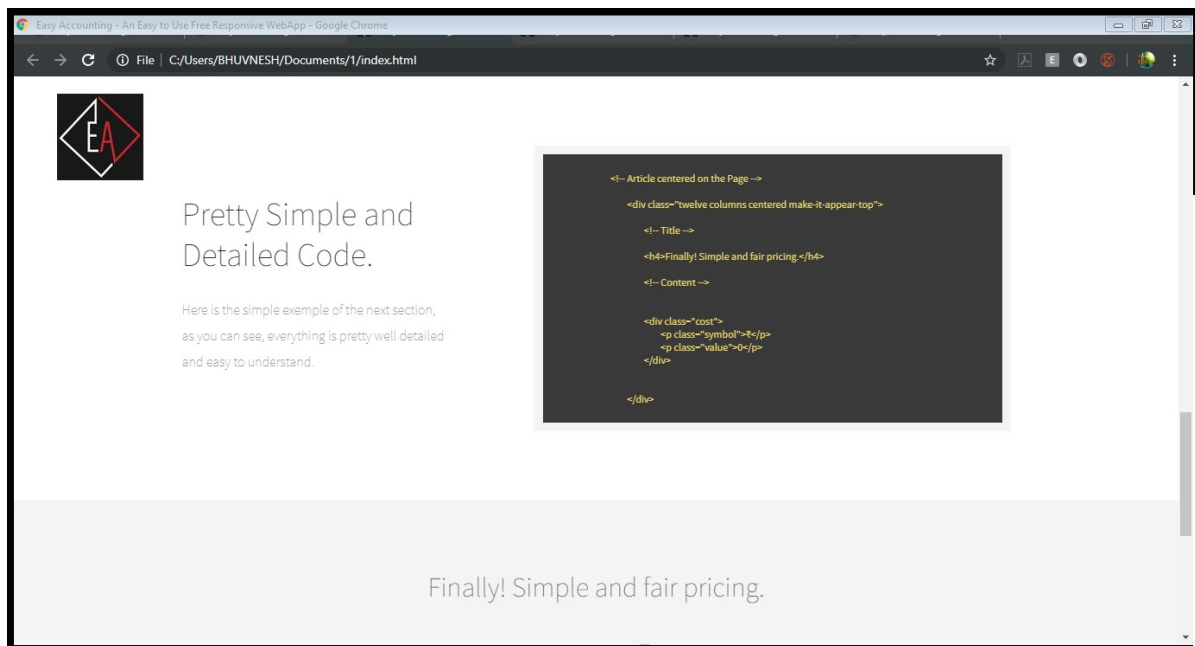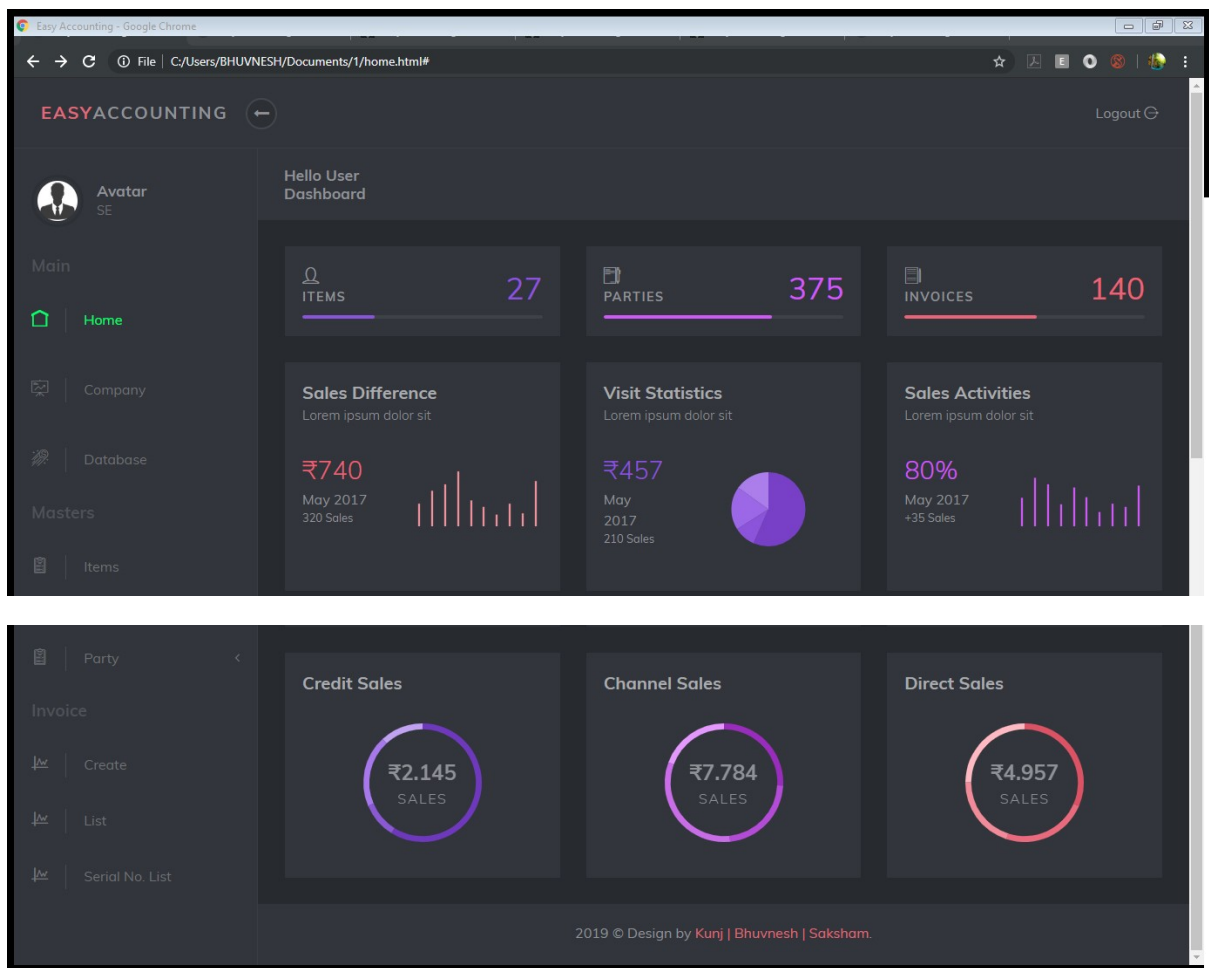
```html
        </div>

    </div>

    <!--JavaScript files-->

    <script src="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.3.1/jquery.min.js" crossorigin="anonymous"></script>

    <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js" integrity="sha384-UO2eT0CpHqdSJQ6hJty5KVphtPhzWj9WO1clHTMGa3JDZwrnQq4sF86dIHNDz0W1" crossorigin="anonymous"></script>

    <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js" integrity="sha384-JjSmVgyd0p3pXB1rRibZUAYoIIy6OrQ6VrjIEaFf/nJGzIxFDsf4x0xIM+B07jRM" crossorigin="anonymous"></script>

    <script src="https://cdnjs.cloudflare.com/ajax/libs/jquery-validate/1.19.0/jquery.validate.min.js" crossorigin="anonymous"></script>

    <script src="js/front.js"></script>
{{!--
    <script src="vendor/jquery/jquery.min.js"></script>

<script src="js/custom.js"></script>

<script src="vendor/popper.js/umd/popper.min.js"></script>

<script src="vendor/bootstrap/js/bootstrap.min.js"></script>

<script src="vendor/jquery.cookie/jquery.cookie.js"></script>

<script src="vendor/chart.js/Chart.min.js"></script>

<script src="vendor/jquery-validation/jquery.validate.min.js"></script>

<script src="js/charts-home.js"></script>

<script src="js/front.js"></script>

<script src="js/bootstrap-select/bootstrap-select.min.js"></script>

<script src="js/bootstrap-datetimepicker/bootstrap-datetimepicker.min.js"></script> --}}

</body>
```

</html>

5. Screenshots of the Results:

5.1 INDEX PAGE:

A Elegant Design

Our website plans to please the users with an awe-inspiring interface which meets all their requirements at the same time. It would be sleek, minimalist and optimal at the same time.
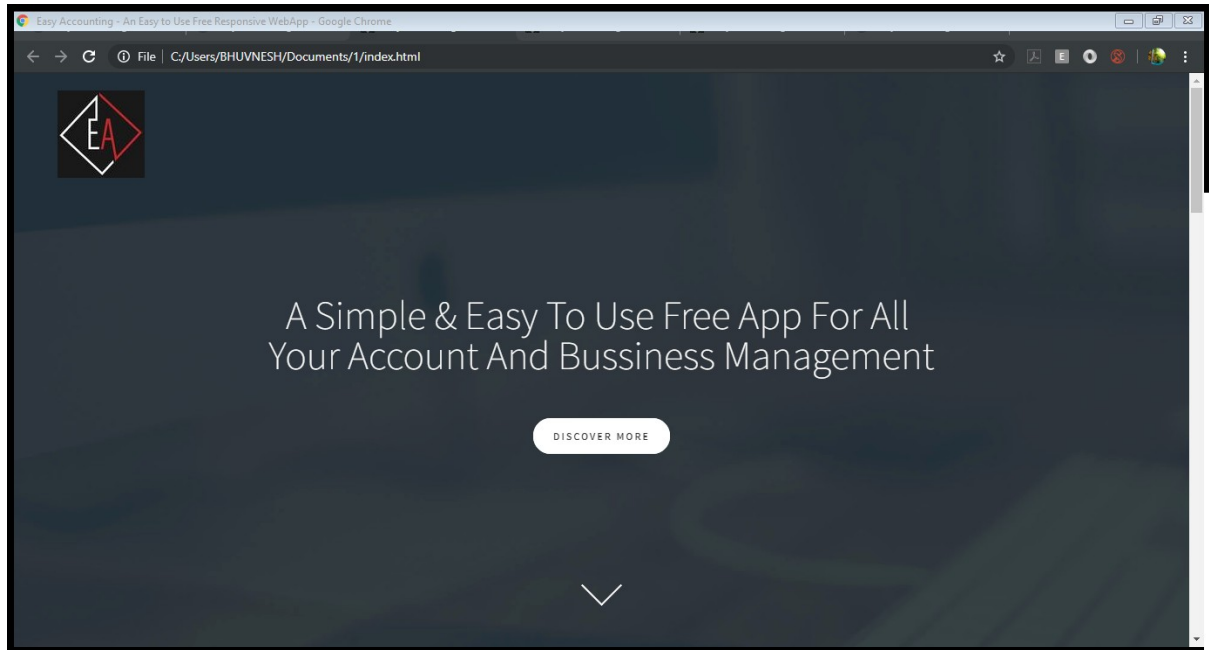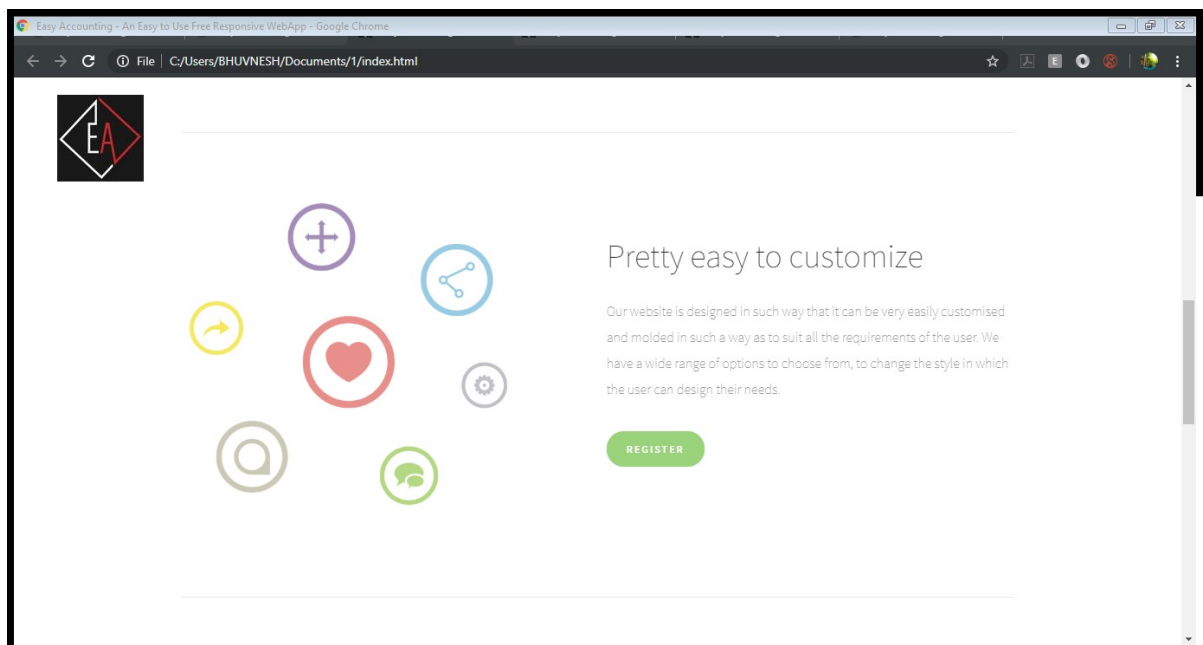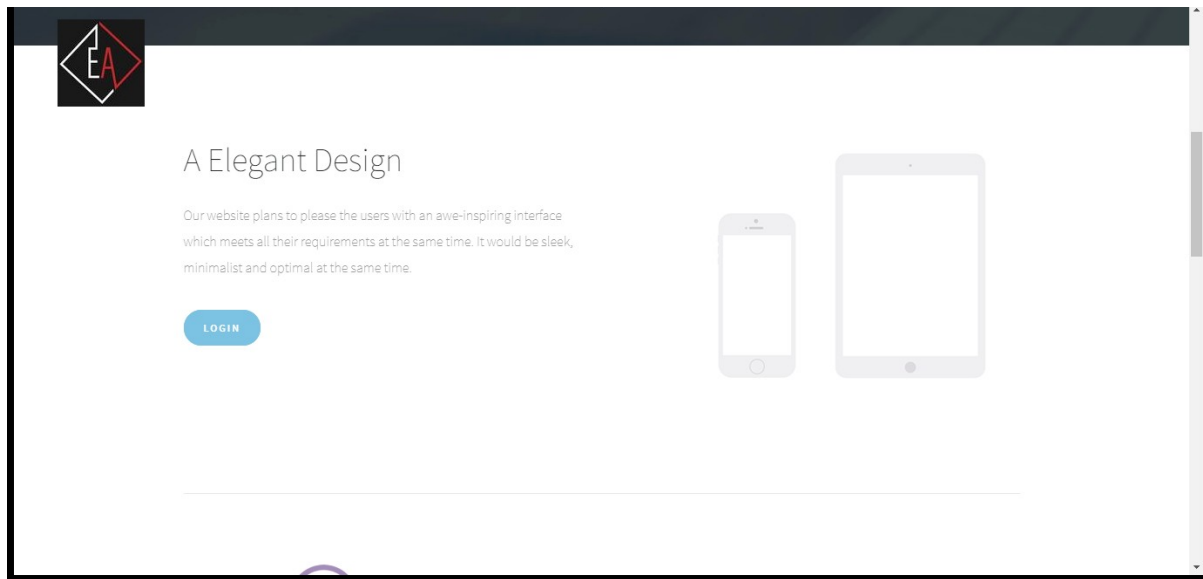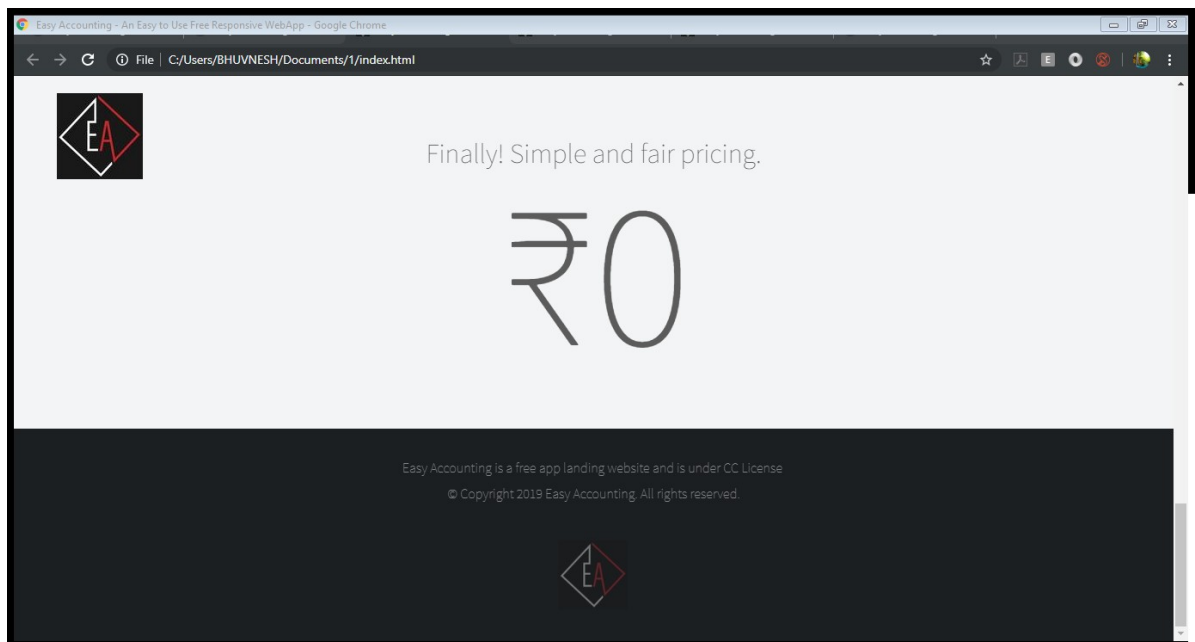
LOGIN

File | C:/Users/BHUVNESH/Documents/1/index.html

Pretty easy to customize

Our website is designed in such way that it can be very easily customised and molded in such a way as to suit all the requirements of the user. We have a wide range of options to choose from, to change the style in which the user can design their needs.

REGISTER

Pretty Simple and
Detailed Code.

Here is the simple exemple of the next section,
as you can see, everything is pretty well detailed
and easy to understand.

```
<!-- Article centered on the Page -->

<div class="twelve columns centered make-it-appear-top">

    <!-- Title -->

    <h4>Finally! Simple and fair pricing.</h4>

    <!-- Content -->

    <div class="cost">
        <p class="symbol">₹</p>
        <p class="value">0</p>
    </div>


</div>
```

Finally! Simple and fair pricing.

Finally! Simple and fair pricing.

₹0

5.2 LOGIN PAGE:

5.3 REGISTER PAGE:

5.4 DASHBOARD:

5.5 COMPANY

1.CREATE

2. LIST

3. EDIT

4. DELETE

5.6 PARTY:

1. CREATE:

2. LIST:

5.7 ITEM:

1. CREATE:

2. LIST:

5.8 INVOICE:

1. CREATE:

Shreenathji Enterprise ⌄   Logout ⌿

Maniar Kunj
Software Designer

⌂ | Home

🗐 | Companies   ‹

🛰 | Database

Masters

🗐 | Items   ‹

🗐 | Party   ‹

Invoice

〰 | Create

〰 | List

〰 | Serial No. List

Invoice Creation

Home / **Invoices** / Create Invoice

Basic Details

No.		Date	
	SE15		16-10-2019

Shreenath Enterprise ,Anda_city   ⌄

Particulars

Name of Item	Quantity	Rate per	Amount Price	Options	
RC1800 ⌄	3	1000	3000	Serial No.	
650ew ⌄	4	1000	4000	Serial No.	Delete
RC15000 ⌄	2	6718.75	13437.5	Serial No.	Delete

Add New Item In same invoice

IGST	5722.5
Round off	0
Total amount	26160

Narration

Payment Due

Cancel   Save changes

2. LIST:

DARKADMIN ←

Maniar Kunj
Software Designer

Main
⌂ | Home

📄 | Companies   ‹

🎮 | Database

Masters
📄 | Items   ‹

📄 | Party   ‹

Invoice
📈 | Create

📈 | **List**

📈 | Serial No. List

Shreenathji Enterprise ˅   Logout ⊖

List of Invoice

Home / Invoice

Basic Table

Export Data to Excel

Show 10 ⬍ entries

Search:

No. ↑↓	Date ↑↓	Party Name ↑↓	Party City ↑↓	Total Amount ↑↓	Party Contact Person ↑↓	Party Contact No. ↑↓	Actions ↑↓
102	25-06-2019	Stocker	chennai	572560	Kanan Ben Dodha	94269339912	☑
25100	02-08-2019	Stocker	chennai	11160	Kanan Ben Dodha	94269339912	☑
50000	08-06-2019	for_Cgst	Kolkatta	2560.0	Rekha	9408696068	☑
5025	04-07-2019	Shreenath Enterprise	Anda_city	48120	Payal	8866250121	☑
5025	04-07-2019	Shreenath Enterprise	Anda_city	39520	Payal	8866250121	☑
512	27-06-2019	for_Cgst	Kolkatta	32200.0	Rekha	9408696068	☑
5501	09-07-2019	Shreenath Enterprise	Anda_city	7680	Payal	8866250121	☑
gst/1920/01	28-06-2019	Shreenath Enterprise	Anda_city	5120	Payal	8866250121	☑
gst/1920/02	02-07-2019	for_Cgst	Kolkatta	91840	Rekha	9408696068	☑
gst/1920/03	04-07-2019	Shreenath Enterprise	Anda_city	573840	Payal	8866250121	☑

Showing 1 to 10 of 15 entries

Previous   1   2   Next

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3. SERIAL NO LIST:

DARKADMIN ←

Shreenathji Enterprise ˅   Logout ⊖

Maniar Kunj
Software Designer

Main

⌂ | Home

🗎 | Companies   ‹

🎮 | Database

Masters

🗎 | Items   ‹

🗎 | Party   ‹

Invoice

📈 | Create

📈 | List

📈 | **Serial No. List**

List of Serial Numbers

Home / Serial Numbers

Basic Table

Show 10 ⬍ entries   Search: [   ]

Serial No. ↑↓	Invoice No. ↑↓	Date ↑↓	Item ↑↓	Party ↑↓	City ↑↓	Basic Price(Without GST) ↑↓	Actions ↑↓
asad 3 1	512	27-06-19	RC15000	for_Cgst	Kolkatta	6718.75	⊡
asdf 1 3 5	512	27-06-19	650ew	for_Cgst	Kolkatta	1000	🖨 Print ⊡
asdf 2 1 4	512	27-06-19	650ew	for_Cgst	Kolkatta	1000	⊡
asdfdsd	102	25-06-19	RC1800	Stocker	chennai	1000	⊡
asdfdsf 1 2 3	512	27-06-19	RC15000	for_Cgst	Kolkatta	6718.75	⊡
asdfjsalkdjfkl	gst/1920/02	02-07-19	RC15000	for_Cgst	Kolkatta	6718.75	⊡
asdfsd 1 2	50000	08-06-19	RC1800	for_Cgst	Kolkatta	1000	⊡
asdfskfj	102	25-06-19	RC1800	Stocker	chennai	1000	⊡
bkj	SE15	16-10-19	RC1800	Shreenath Enterprise	Anda_city	1000	⊡
dffgg	SE15	16-10-19	RC1800	Shreenath Enterprise	Anda_city	1000	⊡

Showing 21 to 30 of 78 entries   Previous 1 2 **3** 4 5 ... 8 Next

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4. INVOICE PRINT

<div align="center">TAX INVOICE   (Original for Recipent)</div>

SHREENATHJI ENTERPRISE B-67, SHAYONA ESTATE, BANSIDHAR MILL COMPOUND, NR. MEMCO CIRCLE AHMEDABAD Pin code : 380025 GSTIN : 24ATKPM4205G1ZX E-Mail : shreenathjienterpriseadh@gmail.com	Invoice No. **SE15**	Dated **16-10-2019**
	Delivery Note	
	Supplier's Info	Other Reference(s)
	Buyers Order No.	Dated
Buyer **SHREENATH ENTERPRISE** SOUTH ANDAMAN ANDA_CITY M-8866250121	Despatch Doc No.	Delivery Note Date
	Despatched through	Destination
GSTIN/UIN : 35AABCS1429B1ZX1 State Name: ANDAMAN AND NICOBAR ISLANDS, Code: 35 Place of supply : ANDAMAN AND NICOBAR ISLANDS E-Mail : payal@gmail.com	Terms of Delivery	

Sr. no	Description of Goods	HSN/SAC	Quantity	Rate	per	GST Rate	Amount
1	**RC15000 120AH TUBULAR BATTREY** FDSF JHHKKLJH	85072000	**2 PCS**	6718.75	PCS	28%	**13437.5**
2	**650EW INVERTER** KLJKK	DSFSFA	**4 PCS**	1000.0	PCS	28%	**4000.0**
3	**RC1800 BATTREY** DFFGG FGDHGF BKJ	1234	**3 PCS**	1000.0	PCS	28%	**3000.0**
	Base Price						20437.5
	IGST						**5722.5**
	Rounding Off						**0.0**
	Total		**9 PCS**				**26160.0**

Amount Chargeable (in words)
Twenty-Six Thousand, One Hundred And Sixty Rupees, Zero Paise Only

HSN/SAC	Taxable	Integrated Tax		Total Tax Amount
		Rate	Amount	
85072000	13437.5	28%	3762.5	3762.5
dsfsfa	4000.0	28%	1120.0	1120.0
1234	3000.0	28%	840.0	840.0
Total	**20437.5**		**5722.5**	**5722.5**

Amount Chargeable (in words) : **INR Five Thousand, Seven Hundred And Twenty-Two Rupees, Fifty Paise Only**

Company's Pan :**ATKPM4205G**

Company Bank Details
Bank Name : **KOTAK MAHINDRA BANK**
A/c No. : **5112979466**
Branch : **NARODA**
IFS Code : **KKBK0002575**

for Shreenathji Enterprise

Declaration
We declare that this invoice shows the actual price of the goods described
and that all particulars are true and correct

Authorised Signatory

<div align="center">SUBJECT TO AHMEDABAD JURISDICTION
This is a Computer Generated Inovice</div>

6. Conclusion

The accounting systems in place for small enterprises vary a lot. There are cases when there are no accounting requirements at all and cases where the accounting requirements are relatively strict for small enterprises. However, in practical terms, all small enterprises will need to keep some kind of financial records in order to keep financial control over their businesses. This report summarizes the likely accounting systems from the point of view of small enterprises and identifies some good practices on how to improve the accounting systems for small enterprises. The objective of this report is to provide views on how to improve the accounting systems so that they can provide the owners/managers of the small enterprises with appropriate financial information. The aim is not to add to regulation but to identify good practices which small enterprises may consider before deciding on an appropriate accounting system. However, these recommendations are in no way intended to encroach upon the sovereignty accounting matters.

Accounting Information System is an integration of various sub-systems such as:

(i) cash sub-system, (ii) sales and accounts receivable sub-system, (iii) inventory sub-system, (iv) purchase and accounts payable sub-system, (v) payroll accounting sub-system, (vi) fixed asset accounting sub-system, (vii) expense accounting sub-system, (viii) tax accounting sub-system, (ix) final accounts sub-system, (x) costing sub-system, (xi) budget sub-system, (xii) management information sub-system.