

SUMMER INTERNSHIP 2018

TITLE : BILLING SOFTWARE FOR
DIFFERENTLY- ABLED

DATE : 07.05.18 - 09.06.18

DEPARTMENT : DEPARTMENT OF INFORMATION
SCIENCE AND TECHNOLOGY

PLACE : COLLEGE OF ENGINEERING, GUINDY

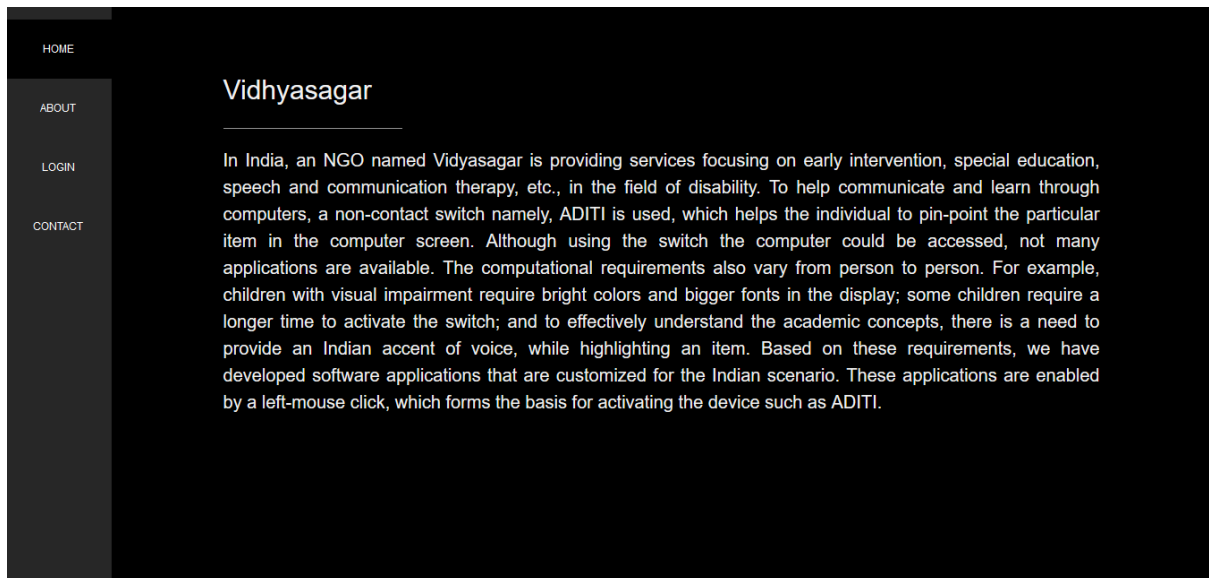
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INTRODUCTION:

We are developing software for the use of differently-abled. Differently-abled individuals are deterred from using computers due to their inability to use a hand-controlled mouse. However, there are some alternative methods, such as 'The Hawking communicator' which was developed for Prof. Stephen Hawking. Using this setup, the individual can type messages and communicate using a simple ON/OFF switch. However, it does not cater to the needs of the Indian environment. and keyboard.

In India, an NGO named **Vidyasagar** is providing services focusing on early intervention, special education, speech and communication therapy, etc., in the field of disability. To help communicate and learn through computers, a non-contact switch namely, ADITI is used, which helps the individual to pin-point the particular item in the computer screen. Although using the switch the computer could be accessed, not many applications are available. The computational requirements also vary from person to person. For example, children with visual impairment require bright colours and bigger fonts in the display; some children require a longer time to activate the switch; and to effectively understand the academic concepts, there is a need to provide an Indian accent of voice, while highlighting an item. Based on these requirements, we have developed software applications that are customized for the Indian scenario. These applications are enabled by a left-mouse click, which forms the basis for activating the device such as ADITI.



ABOUT THE SOFTWARE:

In **Vidhyasagar**, those differently-abled people are producing products like bags, purse etc. There is a need for a billing software to sell those products. Our software aims at fulfilling their requirements. We have developed a web application that can be hosted on the internet.

LANGUAGES USED:

- HTML
- CSS
- JavaScript
- jQuery
- JSP and Servlets
- Shell Script
- Java

PLATFORM:

- Windows Environment
- Apache-Tomcat server
- JDK environment

REFERENCES:

- Stack overflow
- Geeksforgeeks
- Javatpoint
- Tutorials point
- W3schools

WORKING:

This Billing Software is used to produce bill with a single left-mouse click. It interfaces with ADITI device that is used to control the entire software. The admin page can be logged in with the admin username and password. The admin can upload the Product name, Product image, quantity and cost.

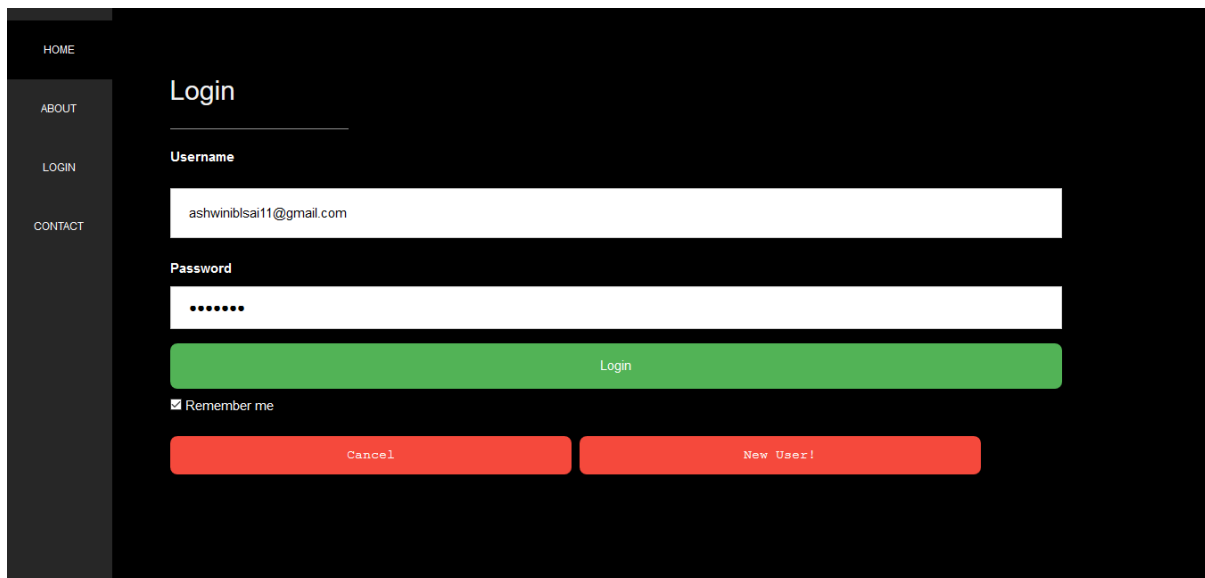
There will be a scanning cursor that will move from one option to another at particular interval. The user should click when the scanning cursor points to the option to select that option. That's how, the user can select the item/options from many items/options

The user can adjust their font size, scan speed, as per their wish. They can select the products for bill by looking at the images. We have used scanning cursor throughout the software which help them to select the options while it traverses them. When more images are displayed for selection, the cursor moves through the rows. Each row has 4 item images. When a row is selected, the scanning cursor

moves through the images in that particular row. Thus, the time to select an item can be reduced.

USER LOGIN:

Admin can have logged in this page to upload the products.






A screenshot of a user login interface. On the left is a dark sidebar with white text links: HOME, ABOUT, LOGIN, and CONTACT. The main area has a dark background. At the top, the word 'Login' is displayed in white. Below it is a white input field for 'Username' containing the text 'ashwiniblsai11@gmail.com'. Underneath is another white input field for 'Password' filled with black dots. A large green button with the text 'Login' in white is positioned below the password field. At the bottom left of the form is a checkbox labeled 'Remember me' which is checked. To the right of the checkbox are two red buttons: 'Cancel' and 'New User!'.

PRODUCT DETAILS:

This page will show the details of the product which is uploaded by the admin. He can add a new product, edit or remove the existing products.

Product Details

Welcome admin!

Image	Id	Name	Quantity	Price	Edit	Remove
	1	fish	10	100	<button>Edit</button>	<button>Remove</button>
	2	apple	87	50	<button>Edit</button>	<button>Remove</button>
	3	umbrella	6	200	<button>Edit</button>	<button>Remove</button>

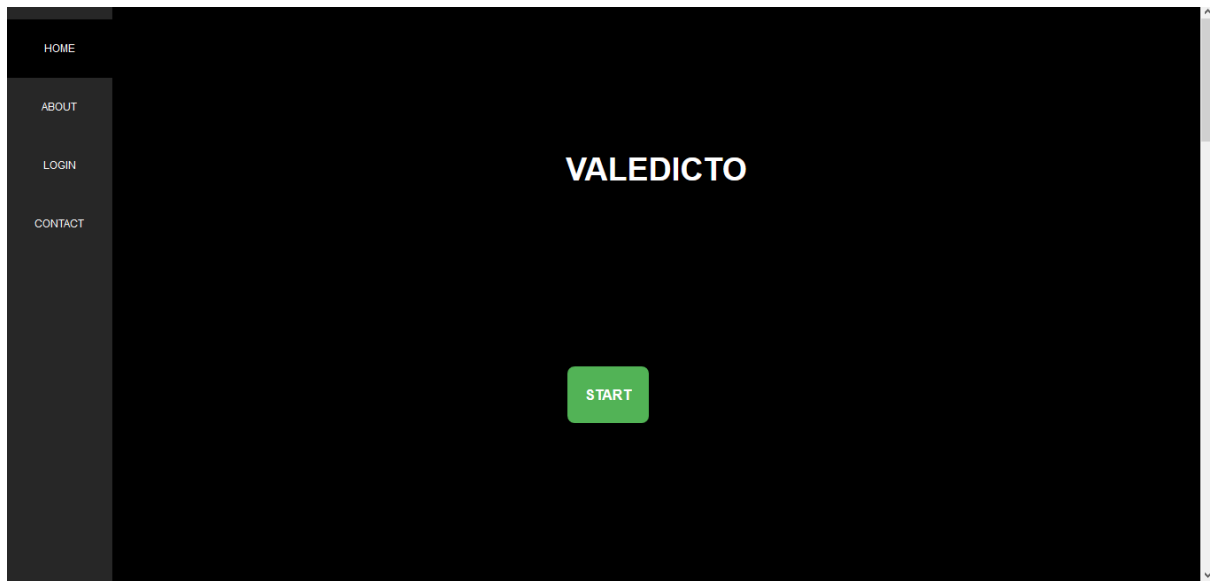
New ProductLog Out

ADD A NEW PRODUCT:

In this page user can add a new product, upload its image and enter its quantity and price.

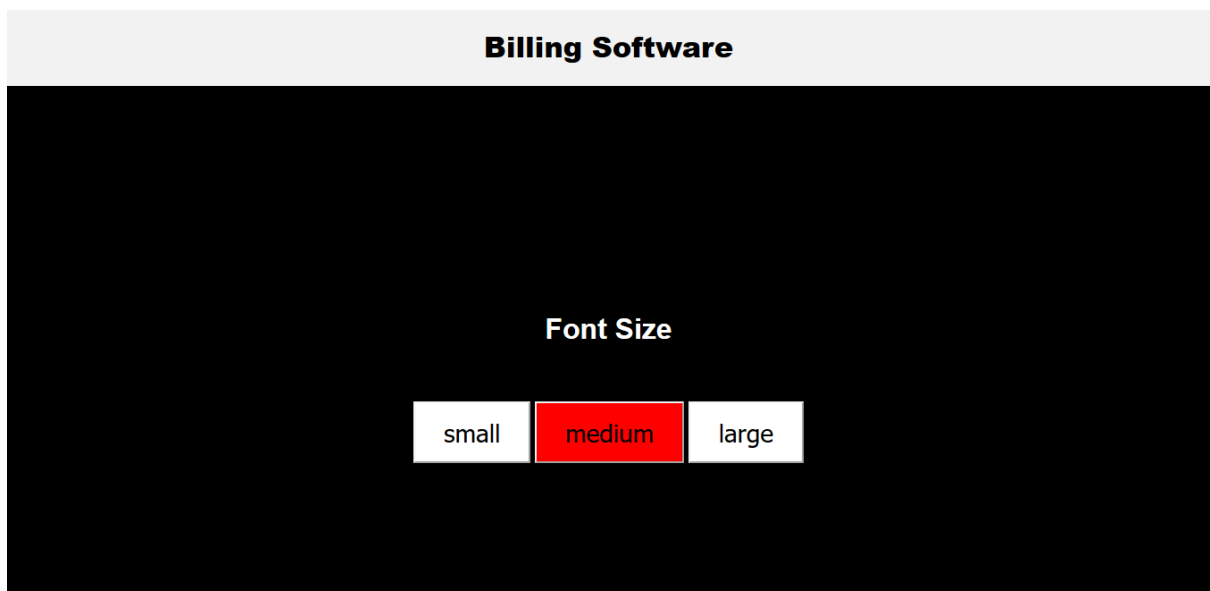
START PAGE:

This is the starting page of the billing software. It will go to the next page with a left mouse click wherever the cursor is.



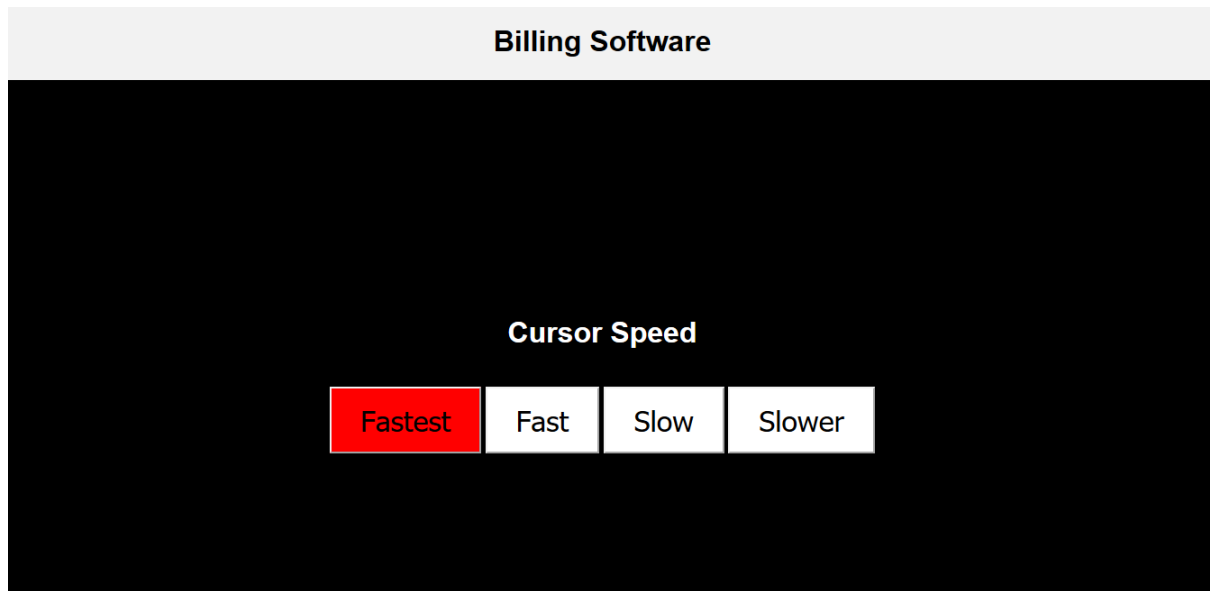
FONT SIZE:

This page is for selecting the font size throughout the software.



CURSOR SPEED:

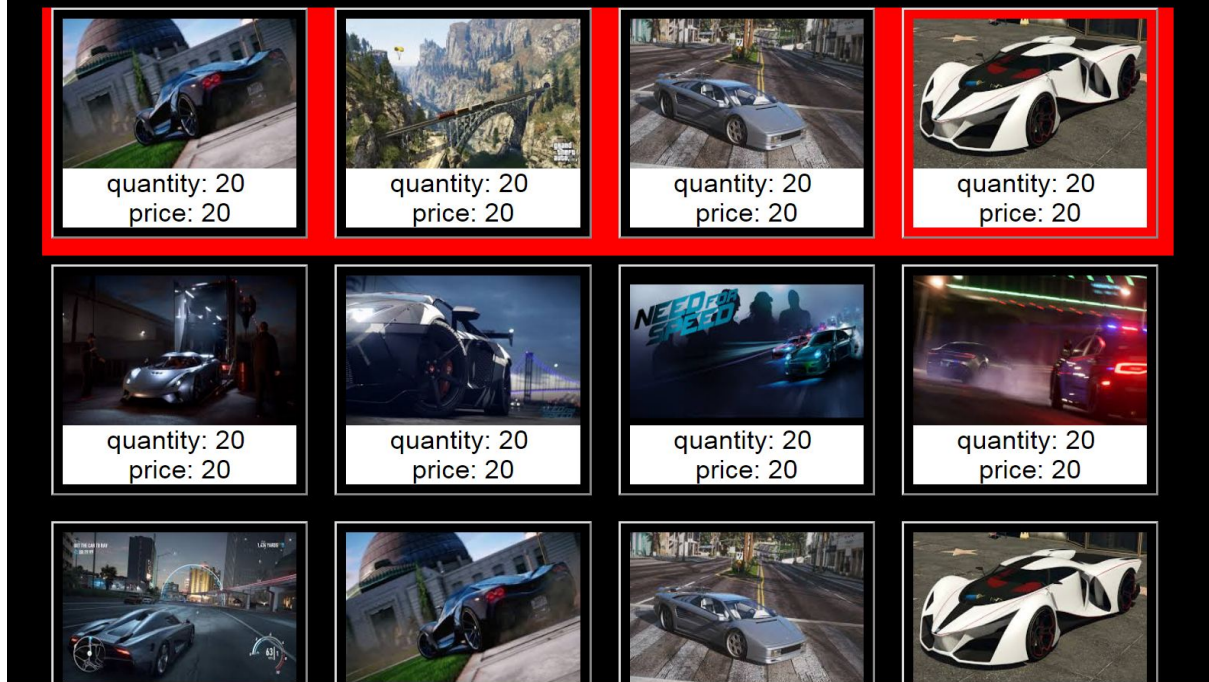
This page is for selecting the cursor speed throughout the software.



SELECT ITEMS:

This page displays the images of the available products. The user can select by looking at its image, available quantity and it's price.

SELECT ITEM:



SELECT QUANTITY:

This page is used to select the quantity of the selected products.

Billing Software

SELECT THE QUANTITY

0123456789

BackSpaceResetSubmit

Entered digits

ADD OR REMOVE SELECTED PRODUCTS:

The user can add a new product or remove the selected product.

Billing Software

Product Details

Image	Id	Name	Quantity	Price
	2	car	8	20
	5	car	1	20
	6	car	1	20

ADD

REMOVE




SUBMIT

REMOVE PRODUCT:

Billing Software




Product Details

Welcome User! 0 1 2

Image	Id	Name	Quantity	Price
	2	car	8	20
	5	car	1	20
	6	car	1	20
<div>Back</div>				

BILLING:

This page will give the bill of the purchased product.

Billing Software					
Product Details					
Image	ID	Name	quantity	Rate	Price
	2	car	8	20	160
	5	car	1	20	20
	6	car	1	20	20
TOTAL					200
<div>PRINT</div>					

Conclusion:

The pages scroll automatically as the scanning cursor moves to help the user control the whole page. The audio plays when the scanning cursor points to an option. It will be helpful to those who can't read. Finally, the final amount is displayed and the audio is played to say the amount.