**CSE1005 SOFTWARE ENGINEERING LABORATARY**

**ONLINE BILLING SOFTWARE**

**PREPARED BY**

**GONUGUNTLA ROHINI-20BCD7174(Team Lead)**

**PRATHAPANI SATWIKA-20BCD7160**

**MEKALA POORNIMAI-20BCD7167**

**TUNGALA SAARVARI-20BCD7057**

**GODUGU SHARMINA-20BCD7084**

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**SOFTWARE REQUIREMENT ANALYSIS AND PLANNING**

**Description of individual phase/module:**

**User characteristics:**

**Administrator:**

The registered department store owners who have registered using this application can be monitored and contacted by the administrator.

**Registered user:**

The owner can then choose from the available items, add quantities, and print a bill for the buyer. The cost of a bill submitted on a particular date will be calculated by the online tool. If the owner needs to change the customer's information, they can do so on the Manage Bills page (involving edit, updating, delete details). For every bill paid, the Giveaway generator generates a giveaway for a random number of customers.

**General Constraints:**

Constant stable internet connection is required for WBS.

**Assumptions and Dependencies:**

WBS needs a steady, reliable online connection, and irregular updates might cause difficulties and issues when it comes to purchases and credits.

**Functional Requirements:**

**1)Signup/Registration:**

**Description:**

It displays the signup page for creating account.

**Input:** Store name, e-mail, mobile number., password, gstin/uin

**Output:** It creates account.

**2)Login:**

**Description:**

It displays the login page.

**Input:** E-mail and password

**Output:** The homepage displays for the user.

**3) Bill generation:**

**Description:**

It creates bill for the specified products.

**Input:** Bill number, mode, name, mobile number., address, e-mail, item, code, quantity, price

**Output:** It generates bill.

**4)Product shorthand notations:**

**Description:**

It displays the page for creating shorthand for the product.

**Input:** Product code, product name, price

**Output:** Gives the shorthand representation for the product.

**5)Logout:**

**Description:**

User gets logged out.

**Input:** Nil

**Output:** Gets logged out

**Identify individual module deliverables**

**1 Signup / Registration Module:**

If a client wishes to create an invoice or manage, download, or print a bill, he or she must first register. Unregistered users are unable to do the above tasks.

**2 Login Module:**

The user logs in to the online application using a valid user id and password that has been successfully validated in order to manage invoices.

**3 Bill Generation Module:**

Every logged-in user will be able to create and generate invoices, as well as store current bills, print, and download those generated bills.

**4 Product shorthand notations Module:**

Every product has a shorthand representation of the entire product label. These shorthand notations can be found on user invoices, and users can search for them.

**5 Logout Module:**

Users can logout after doing the following required processes and all session activities will be preserved in the database.