CSE1005 SOFTWARE ENGINEERING LABORATARY

ONLINE BILLING SOFTWARE

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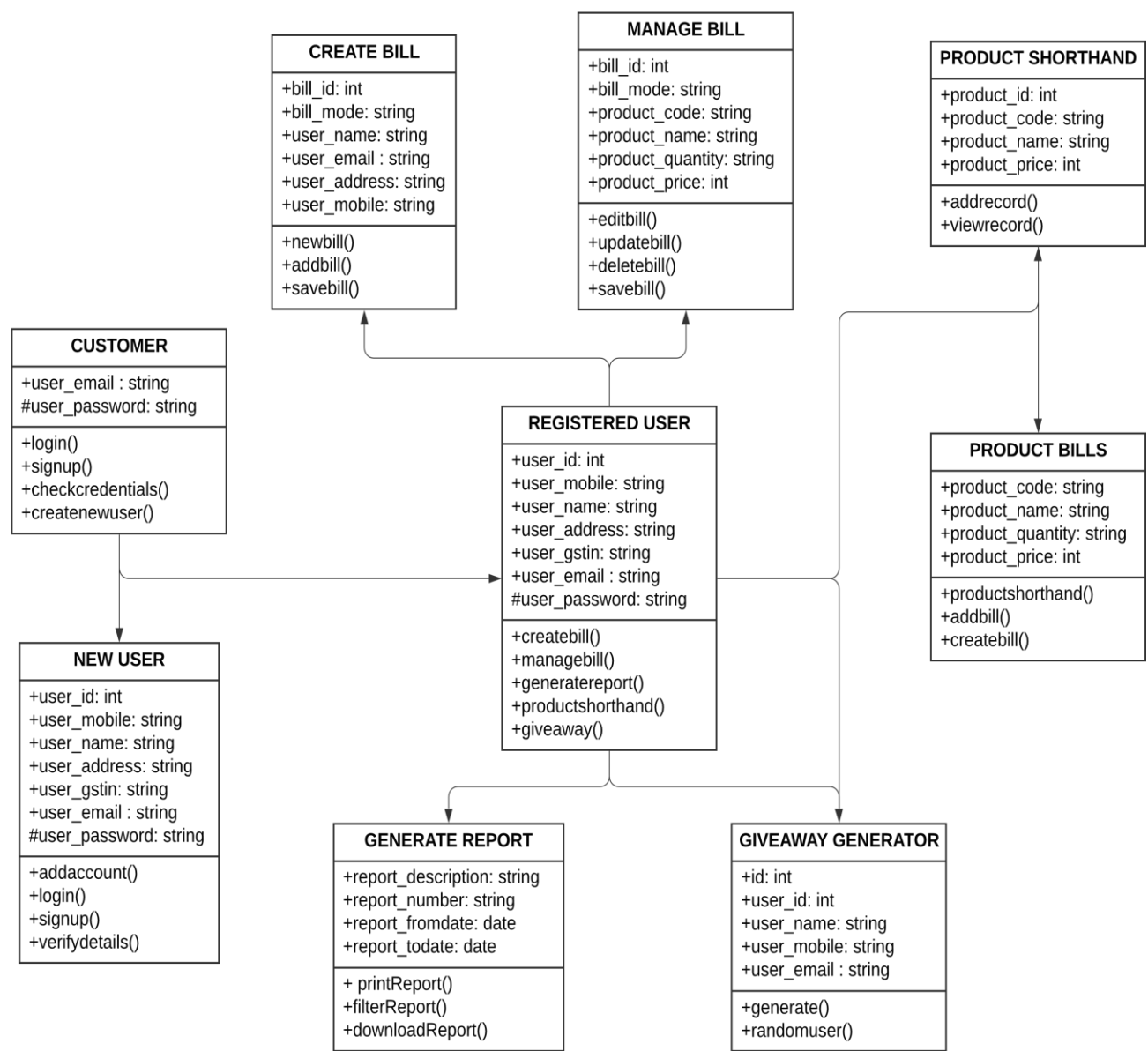**TUNGALA SAARVARI-20BCD7057**

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DATE:28/10/2022

DATA MODELLING:

Class diagram:

Class diagrams are the blueprints of your system or subsystem. You can use class diagrams to model the objects that make up the system, to display the relationships between the objects, and to describe what those objects do and the services that they provide. Class diagrams are useful in many stages of system design.
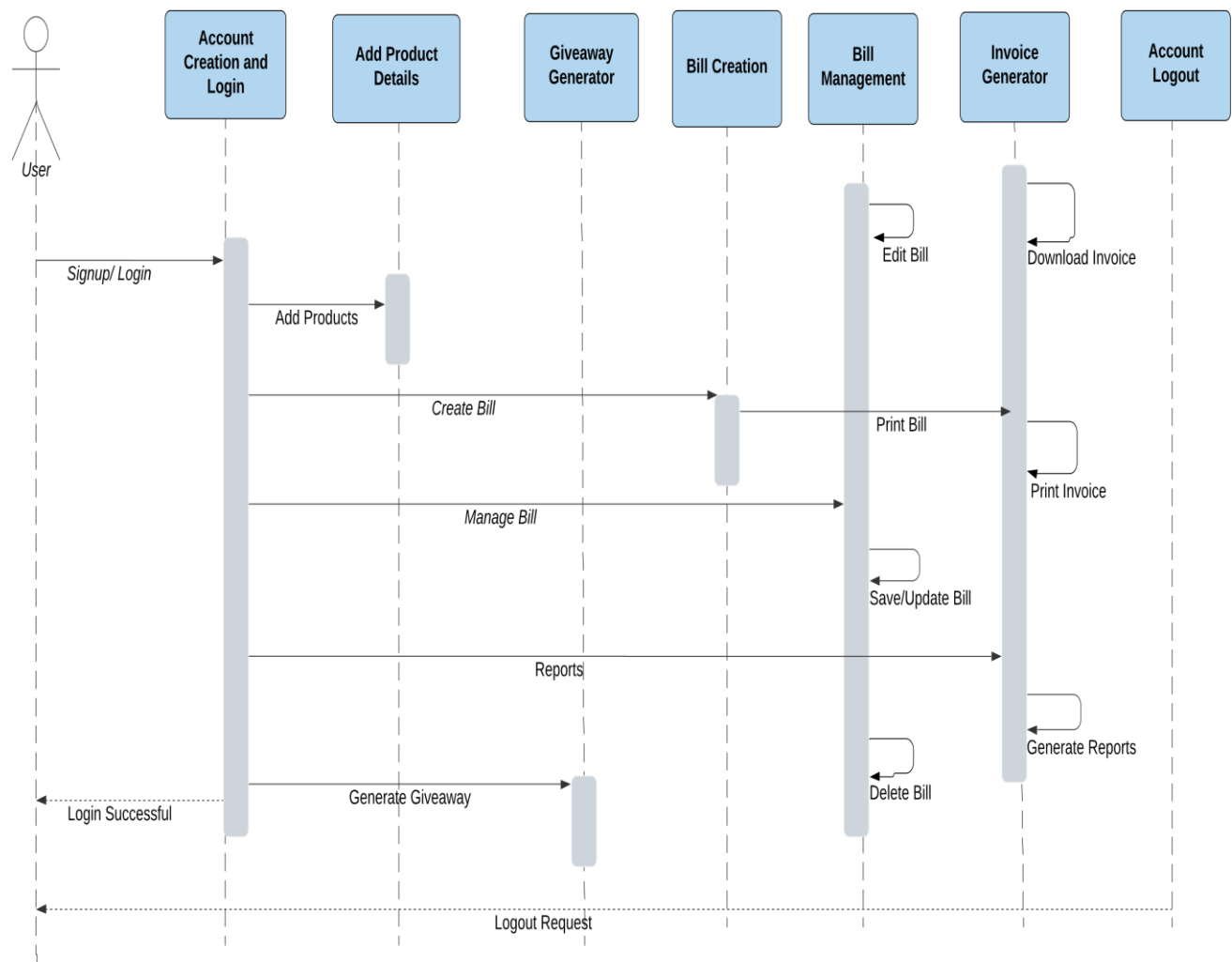
The class diagram for online billing software

CREATE BILL

+bill_id: int
+bill_mode: string
+user_name: string
+user_email : string
+user_address: string
+user_mobile: string

+newbill()
+addbill()
+savebill()

MANAGE BILL

+bill_id: int
+bill_mode: string
+product_code: string
+product_name: string
+product_quantity: string
+product_price: int

+editbill()
+updatebill()
+deletebill()
+savebill()

PRODUCT SHORTHAND

+product_id: int
+product_code: string
+product_name: string
+product_price: int

+addrecord()
+viewrecord()

CUSTOMER

+user_email : string
#user_password: string

+login()
+signup()
+checkcredentials()
+createnewuser()

REGISTERED USER

+user_id: int
+user_mobile: string
+user_name: string
+user_address: string
+user_gstin: string
+user_email : string
#user_password: string

+createbill()
+managebill()
+generatereport()
+productshorthand()
+giveaway()

PRODUCT BILLS

+product_code: string
+product_name: string
+product_quantity: string
+product_price: int

+productshorthand()
+addbill()
+createbill()

NEW USER

+user_id: int
+user_mobile: string
+user_name: string
+user_address: string
+user_gstin: string
+user_email : string
#user_password: string

+addaccount()
+login()
+signup()
+verifydetails()

GENERATE REPORT

+report_description: string
+report_number: string
+report_fromdate: date
+report_todate: date

+ printReport()
+filterReport()
+downloadReport()

GIVEAWAY GENERATOR

+id: int
+user_id: int
+user_name: string
+user_mobile: string
+user_email : string

+generate()
+randomuser()

Sequence Diagram:

A sequence diagram is a Unified Modeling Language (UML) diagram that illustrates the sequence of messages between objects in an interaction. A sequence diagram consists of a group of objects that are represented by lifelines, and the messages that they exchange over time during the interaction.

The sequence diagram for online billing software

Sequence Diagram