



## **SRS ASSIGNMENT 4 GROUP 6**

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# Use Case Diagram

## DEFINITION OF USE CASE

A Use Case captures a contract that describes the system behavior under various conditions as the system responds to a request from one of its stakeholders. In essence, a Use Case tells a stylized story about how an end user interacts with the system under a specific set of circumstances. A Use Case diagram simply describes a story using corresponding actors who perform important roles in the story and makes the story understandable for the users. The first step in writing a Use Case is to define that set of “actors” that will be involved in the story. Actors are the different people that use the system or product within the context of the function and behavior that is to be described. Actors represent the roles that people play as the system operators. Every user has one or more goals when using system.

### Primary Actor

Primary actors interact directly to achieve required system function and derive the intended benefit from the system. They work directly and frequently with the software.

### Secondary Actor

Secondary actors support the system so that primary actors can do their work. They either produce or consume information. Use Case diagrams give the non-technical view of overall system.

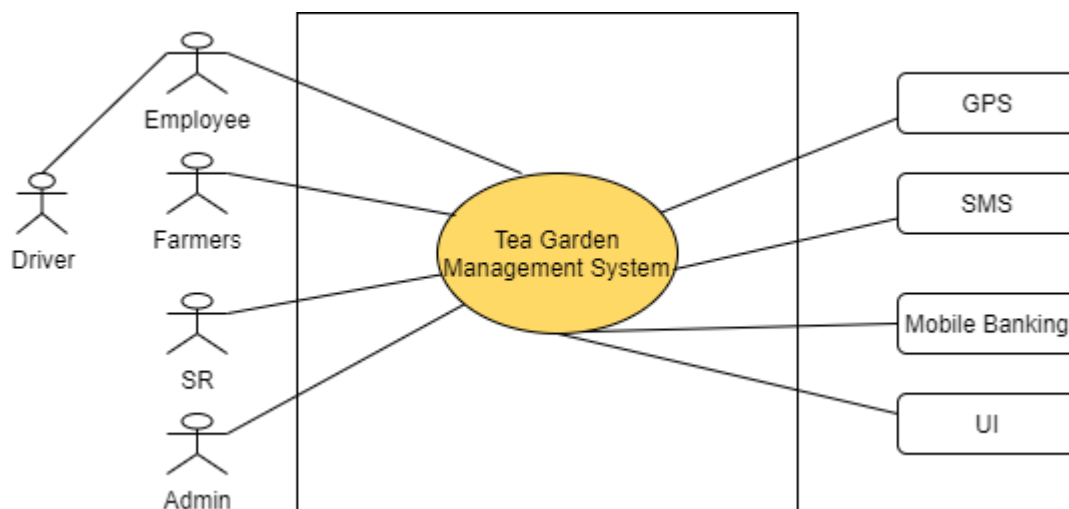
Use Case diagrams give the non-technical view of overall system.

### Level 0:

Name: TGMS

Primary Actor: Employee, Farmer, Sales Representatives, Admin, Driver

Secondary Actor: GPS, SMS, Mobile Banking, UI

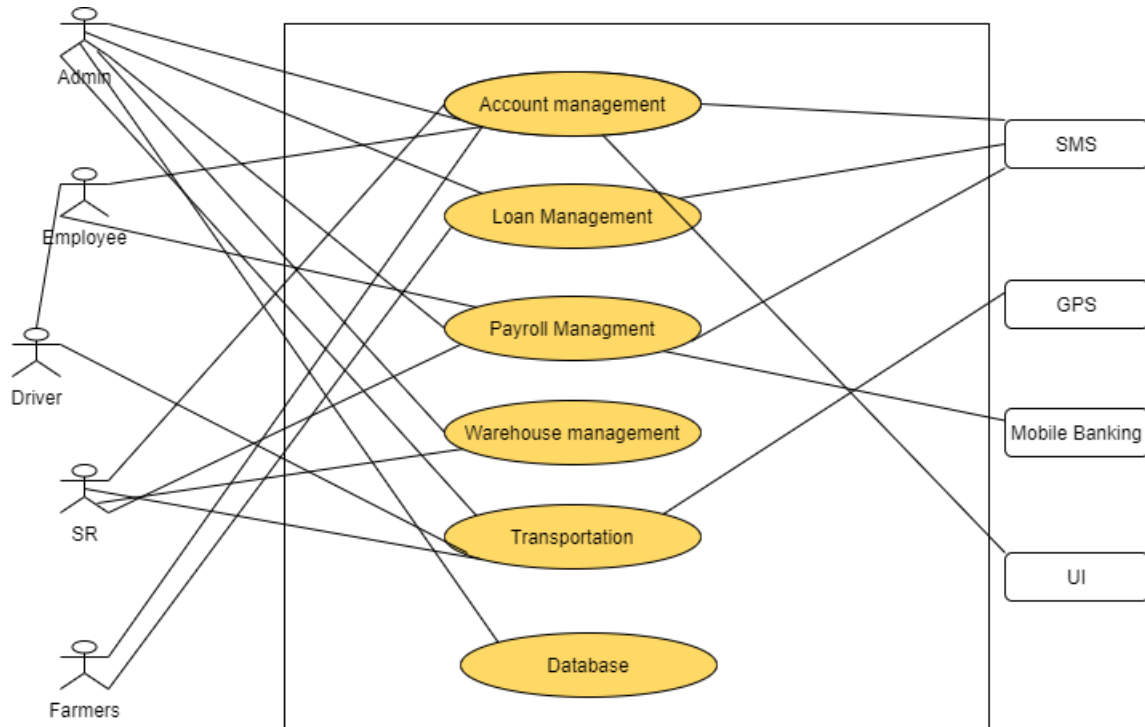


### Level 1:

**Name:** TGMS

**Primary Actor:** Employee, Farmers, Sales Representative, Admin, Driver

**Secondary Actor:** GPS, SMS, Mobile Banking



### Description of use case diagram level-1:

**1. Account management:** Users must create an account and then log into the system. He/she can update his/her profile, also can recover his password if forgotten. Admin will verify his/her provided credentials.

**2. Loan Management:** Farmers will apply for loans after giving their information, Admin will verify them and farmers will be categorized into 3 divisions .

**3. Payroll Management:** Employees will get their salary by mobile banking. SRs will get salary and commission ,also may get warning.

**4. Warehouse Management:** There will be info about incoming and outgoing products and admin will make report about it daily.

**5. Transportation:** There will have 2 types of transportation: 1. Farmer to factory and 2. Factory to SRs.

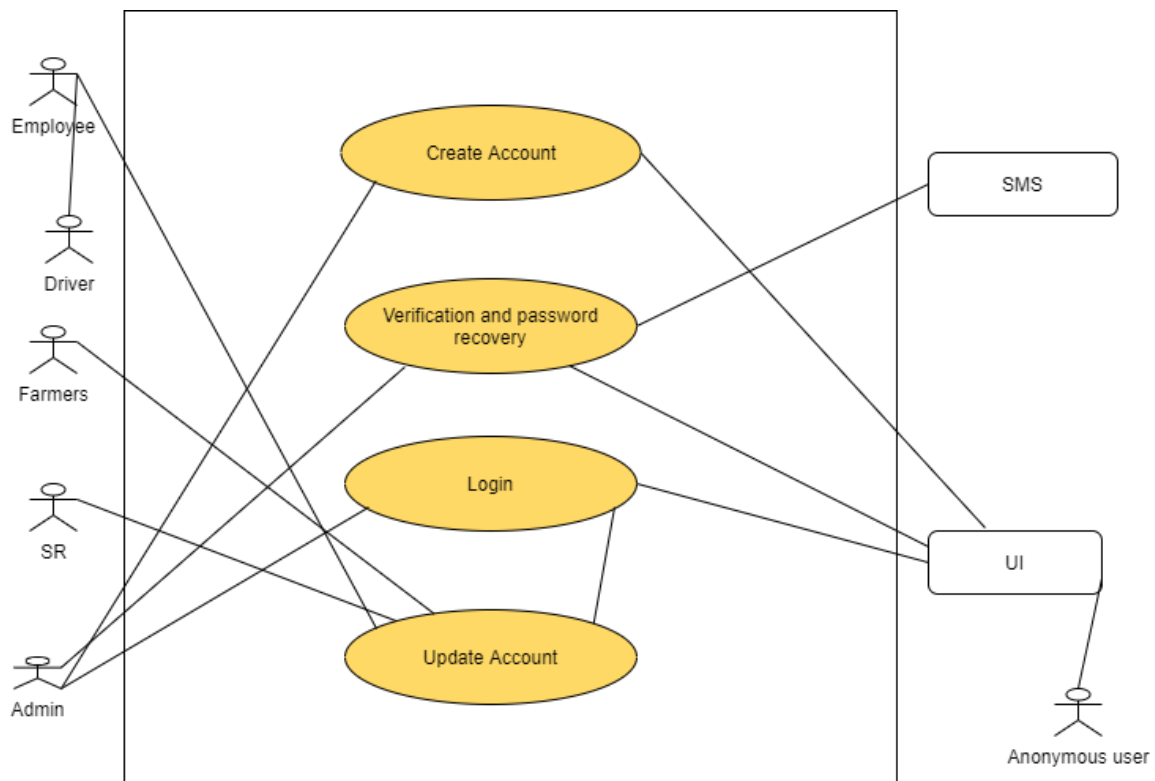
**6. Database:** Employees' information, farmers' information, SR and products' information will be stored in the database.

### Level 1.1:

**Name:** Account Management

**Primary Actor:** Employee, Farmer, Sales Representatives, Admin ,Driver

**Secondary Actor: UI,SMS**



### **Description of use case diagram level-1.1:**

**Create account :** To create an account, users must provide following credentials: full name, mobile number, password, employee ID,NID Number. Admin will verify and send a confirmation code to the provided mobile number. By inputting this code, account will be created.

**Verification:** Admin will verify the user's credentials and send him a code.

**Update account:** Users can update his/her mobile number, password .

**Password recovery:** A user can recover his/her password if forgotten, by using his/her phone number.

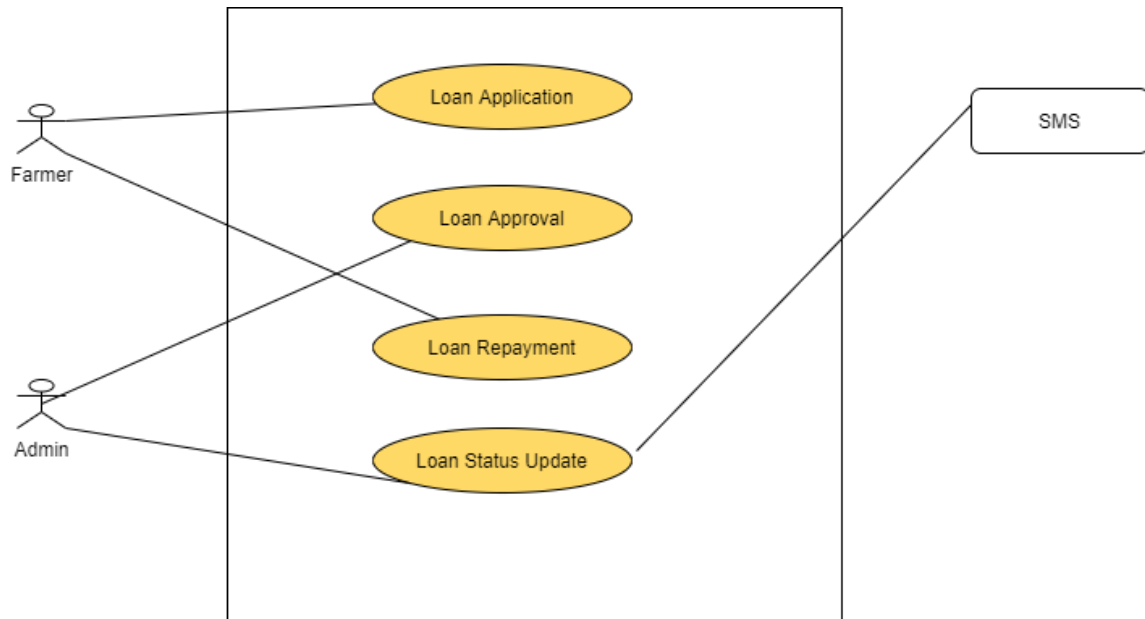
**Log in:** Users will log into the system by using his/her registered phone number and password.

### **Level 1.2:**

**Name:** Loan Management

**Primary Actor:** Farmer, Admin

**Secondary Actor:** SMS



### Description of use case diagram level-1.2:

**Loan Application:** Users can apply for loans. To apply they have to provide the following documents Full name, Mobile number ,NID (photocopy),Employee ID (photocopy), Bank Statements.

**Loan Approval:** Loans will be provided after verifying all the documents submitted by the users. Admin will then upload the information in the database.

**Loan Repayment:** When the company will purchase products from users having loans to repay, the purchase cost will be deducted by a particular amount from the loan agreement. That amount would be considered as repayment of the loan money.

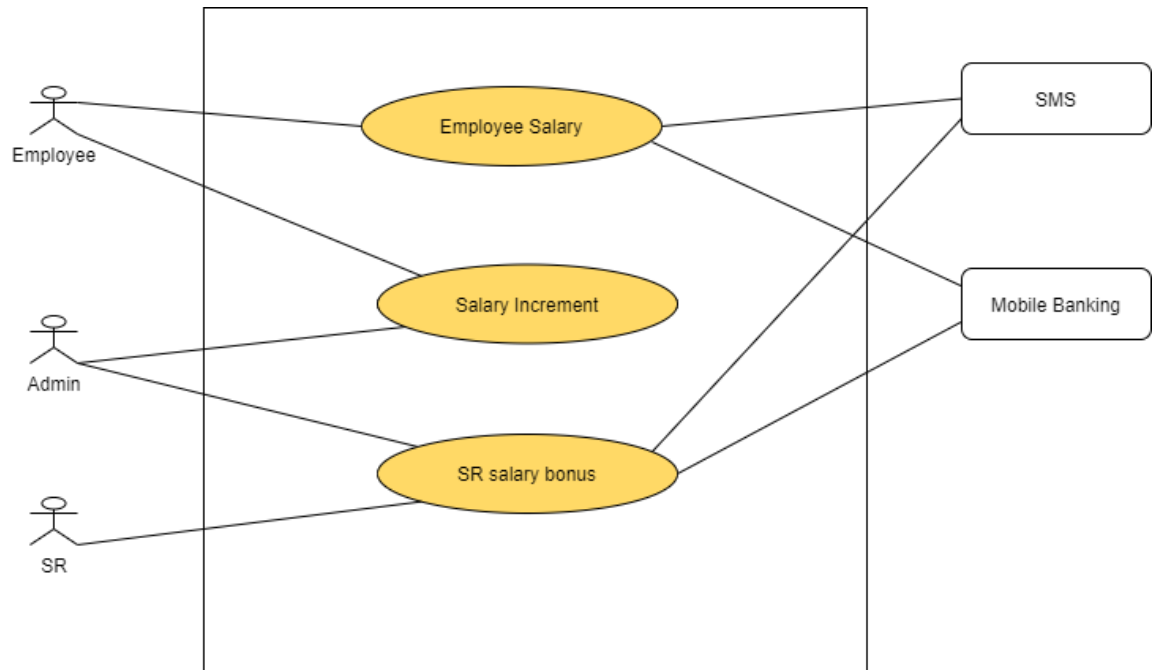
**Loan Status:** Initially admin will add the users' information to the "Current Loan" list. After the completion of the repayment admin will move users from "Current Loan" list to "Completed Loan" list.

### Level 1.3:

**Name:** Payroll Management

**Primary Actor:** Employee, Admin, SR

**Secondary Actor:** SMS, Mobile Banking



### Description of use case diagram level-1.3:

**Employee Salary:** Employees will get their salary at the end of a month according to their employee ID and money will be sent to their mobile number via mobile banking.

**Salary Increment:** When an employee wants increment he will go into negotiation with top management and they will agree on an incremented salary.

**SR Salary Bonus:** Sales representatives will have a set target, which they will be notified and if they can't sell 60% tea packet of their target, they will be alerted through a text message on their phone. They will also get commission if they can fulfill their target and sell an extra amount.

### Level 1.4:

**Name:** Warehouse Management

**Primary Actor:** Admin, Sales Representative



#### Description of use case diagram level-1.4:

**Incoming products:** input the count of the incoming tea packets of different kind.

**Outgoing products:** Input information about outgoing products sold by SRs.

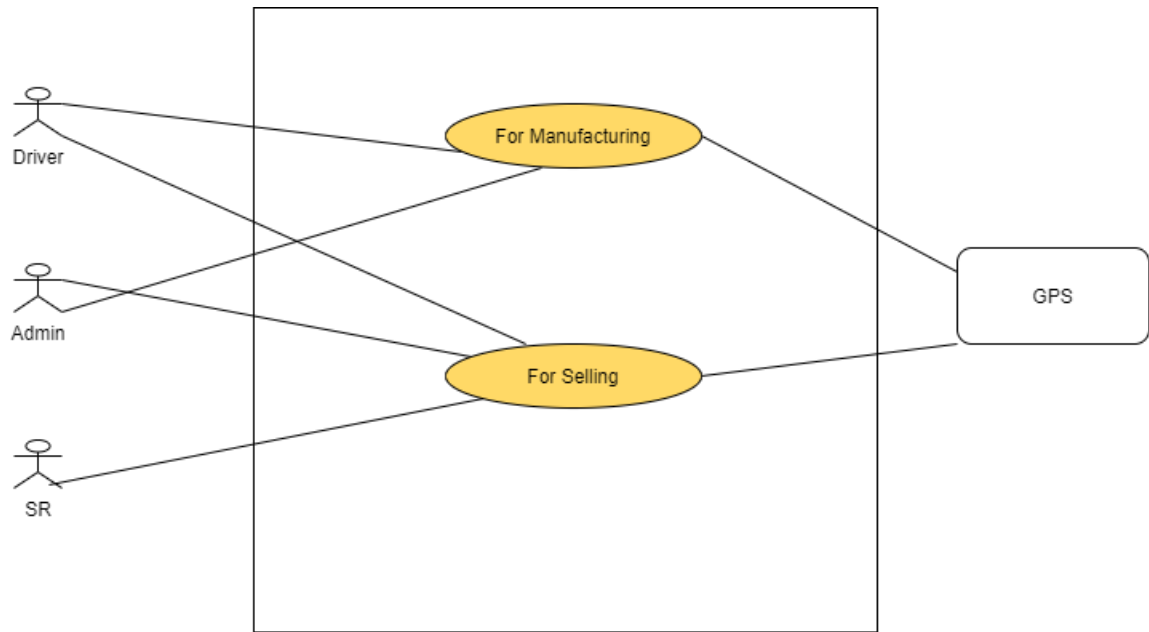
**Report Making:** Admin will make a daily report on sales and the software will predict how much product can be ordered in next month.

#### Level 1.5:

**Name:** Transportation

**Primary Actor:** Driver, Admin, Sales Representative

**Secondary Actor:** GPS



#### **Description of use case diagram level-1.5:**

**For manufacturing:** Tea leaves are taken by truck drivers from the tea garden to factory for manufacturing.

**For selling:** SRs will contact Admin for product and Admin will store the amount of products that are sent to SR.

#### **Level 1.6:**

**Name:** Database

**Primary Actor:** Admin





#### **Description of use case diagram level-1.6:**

**Transaction Management:** Every order from the SR's will be stored distinctly in the database which will include order date, liquor type, order quantity.

**Storing Employee Info:** Employees' information will be stored in the database. If an employee updates his/her info, it will be updated in the database automatically.

**Storing Loan Info:** The amount of loan granted for the farmers will also be stored . After every shipment of tea leaves from the farmers, the amount of remaining loan will also be updated then.

**Storing Farmers' Info:** Farmers' information will also be stored here and the amount of loan granted for the farmers will also be stored.

**Storing Warehouse Data:** The quantity of tea leaves and the number of products will be stored in the Database. Even the amount of inventory with their category will be stored in the Database and it will be updated after every order fulfillment. Every order from the SR's will be stored distinctly in the database which will include order date, liquor type, order quantity. Admin will be able to see the sum of the inventory amount stored and deducted from the warehouse.

**Supervising System:** Admin will supervise the system.