CHALAPATHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
(AUTONOMOUS)

(Approved by A.I.C.T.E, Affiliated To Acharya Nagarjuna University) , CHALAPATHI NAGAR, LAM, GUNTUR .
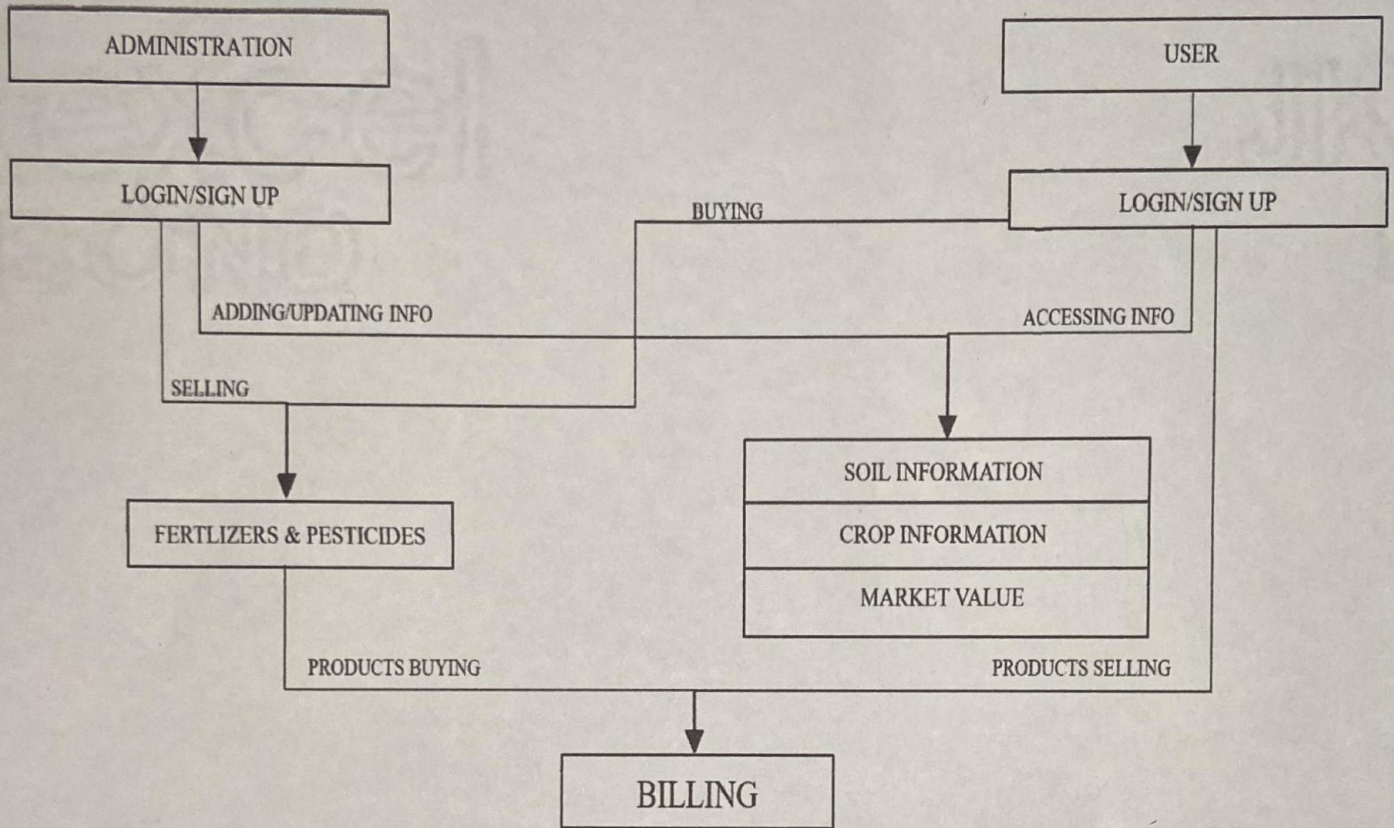
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

DIGITAL AGRICULTURE STEWARDSHIP SYSTEM

CASE STUDY

This Digital Agriculture is a precise way of approach for advanced farming in all aspects. The level-by-level management provides a standard approach of farming in the digital era, the farmers can manage the aspects like crop suggestion, soil analysis, reasonable price for product and provide both artificial and natural fertilizers and pesticides. The resources provide a vast bulk crop yield for the farmer along with best marketing for both the buyer and seller. The market is a biggest issue to be faced and this digitalization provides a way to overcome the drawback. The brief crop process steps in level-by-level approach makes the farming much more effective. The high demand crops in market are suggested to the farmers and any further changes are to be notified and data is updated as fast and provides the information to the user. The farmers and others can make use of it for all related quires regarding the farming and solutions to the problems while farming can also be added up for better production.

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┌─────────────────────┐                              ┌─────────────────────┐
│   ADMINISTRATION    │                              │        USER         │
└──────────┬──────────┘                              └──────────┬──────────┘
           │                                                    │
           ▼                                                    ▼
┌─────────────────────┐          BUYING             ┌─────────────────────┐
│   LOGIN/SIGN UP     │─────────────────────────────│   LOGIN/SIGN UP     │
└──────────┬──────────┘                              └──────────┬──────────┘
           │                                                    │
      ADDING/UPDATING INFO                              ACCESSING INFO
           │                                                    │
      SELLING                                                   ▼
           │                              ┌─────────────────────────────────┐
           ▼                              │       SOIL INFORMATION          │
┌─────────────────────┐                  ├─────────────────────────────────┤
│ FERTLIZERS & PESTICIDES │              │       CROP INFORMATION          │
└──────────┬──────────┘                  ├─────────────────────────────────┤
           │                             │        MARKET VALUE             │
    PRODUCTS BUYING                      └─────────────────────────────────┘
           │                                  PRODUCTS SELLING
           ▼
      ┌──────────────────┐
      │     BILLING      │
      └──────────────────┘
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UNDER THE GUIDANCE OF

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