AP PROJECT REPORT
FACILITY MANAGEMENT SYSTEM

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OUR APPROACH :

First of all we decided what all functionalities we need to implement . Then we made csv reader that store details from files to arraylist and writer to write back to csv files, basically update the csv. Then we divided work , and Prasoon started working on forms required and GUI and Siddharth started working on inner implementations . Gui work was over early and in the last three-four days we started working on implementations.

PROJECT DETAILS :

We have used different csv files to store different things ,for example: Logistics.csv stores details of logistics requirement made while pending requests.csv stores requests pending and its details.

We have used forms for filling up many details like : Register Credentials , Assigning Task, Ask for leave , Logistics Requirements etc.

Separate classes have been made for different functionalities and almost each and every class has a length less than 200 lines. For time stamp generator we have made a class clockpane that uses timer .

Classes and Descriptions:

Admin -Implements functions of Admin
Supervisor-Implements functions of Supervisor
Audio-Video/Security/HouseKeeping/Electricity/HVACStaff- Implements Staff functions
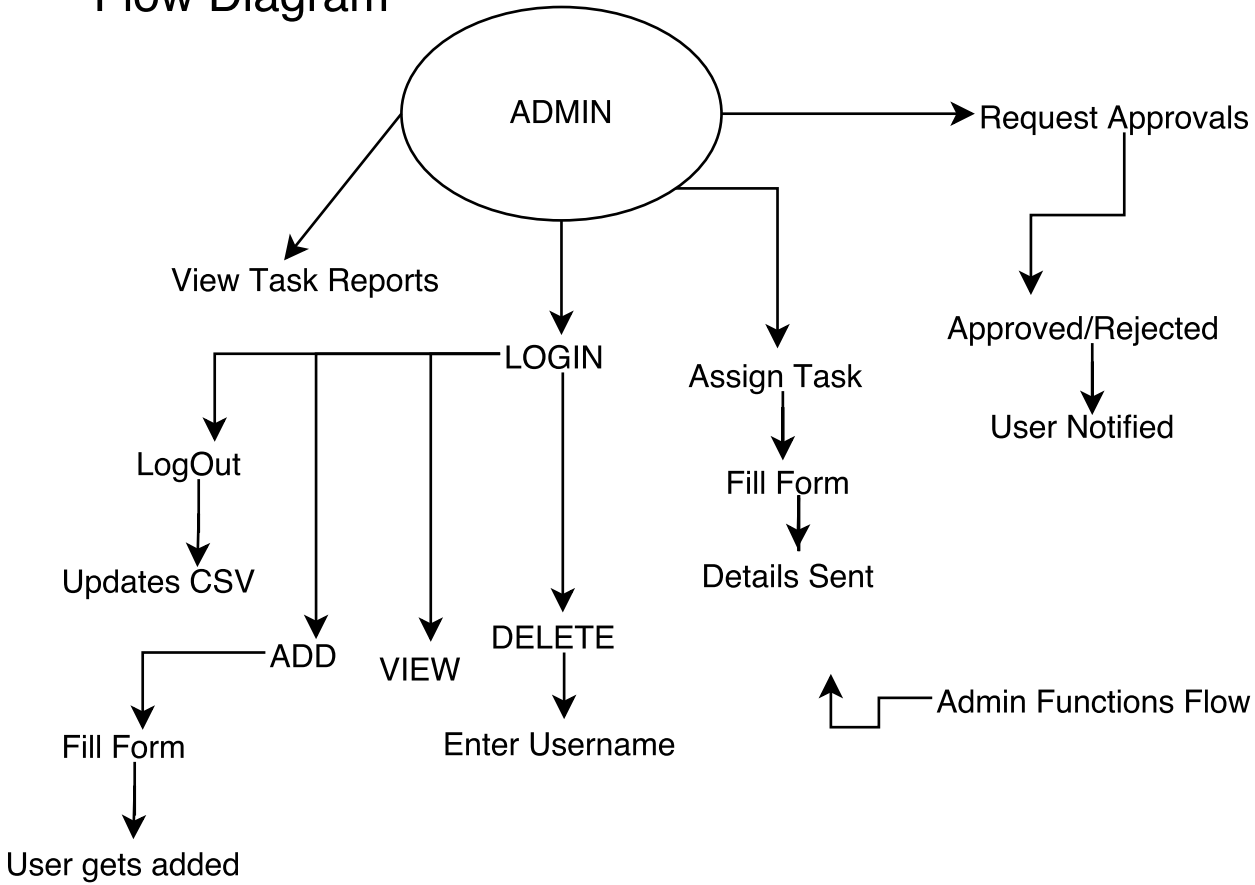Login-Checks in database And login accordingly
Register- Registers and send for approval
Gui classes-implement gui's and forms

We have taken care of empty fields if any in Register and even if same username is entered it asks to fill it again.Used System generated Unique IDs for users And Tasks IDs.
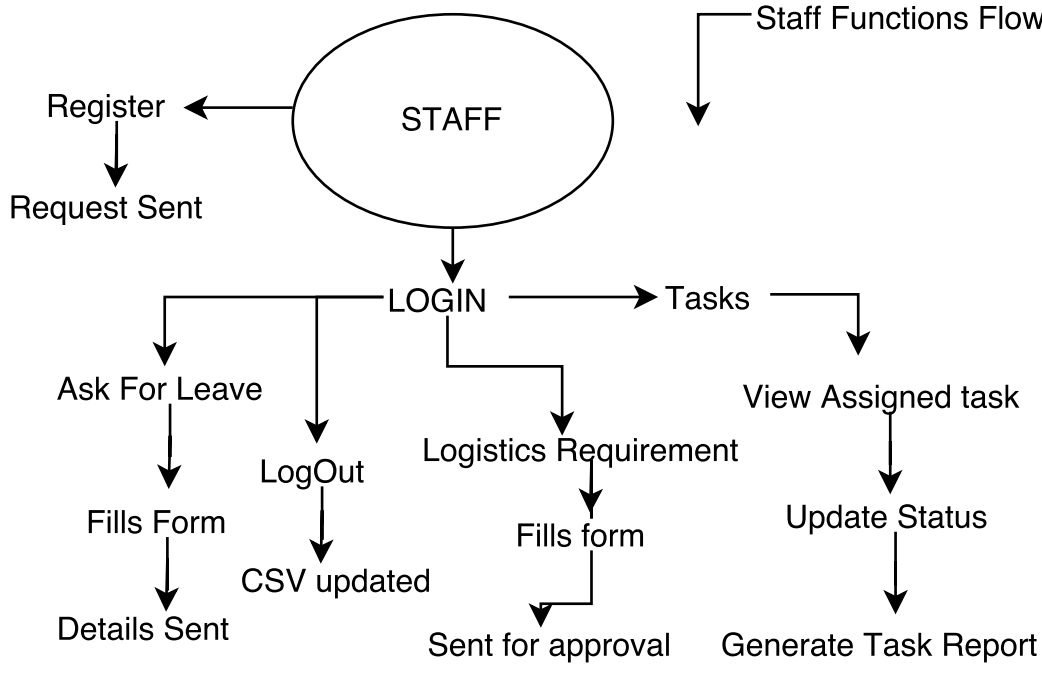
Flow Diagram

ADMIN

- View Task Reports
- LOGIN
  - LogOut
    - Updates CSV
  - ADD
    - Fill Form
      - User gets added
  - VIEW
  - DELETE
    - Enter Username
- Assign Task
  - Fill Form
    - Details Sent
- Request Approvals
  - Approved/Rejected
    - User Notified

Admin Functions Flow

Staff Functions Flow

STAFF

- Register
  - Request Sent
- LOGIN
  - Ask For Leave
    - Fills Form
      - Details Sent
  - LogOut
    - CSV updated
  - Logistics Requirement
    - Fills form
      - Sent for approval
  - Tasks
    - View Assigned task
      - Update Status
        - Generate Task Report

Supervisor Functions Flow

SUPERVISOR

- LogOut
  - CSV Updated
- LOGIN
  - Add Staff
    - Fills Form
  - Assign Task
    - Fills Form
      - Details sent to staff
  - View
    - Details
  - Delete
    - Enter your staff username
  - Send Leave
    - Fills From
- Request Approvals
  - Approved/Rejected