# **Software Engineering Principle and Practices**

## Lab-8

Batch - A4

Group no. 9

Team members:

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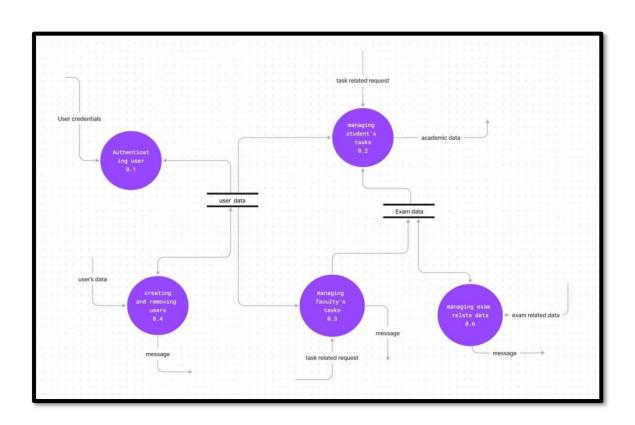
## Aim: To prepare data flow diagram of the system

Title: College management system

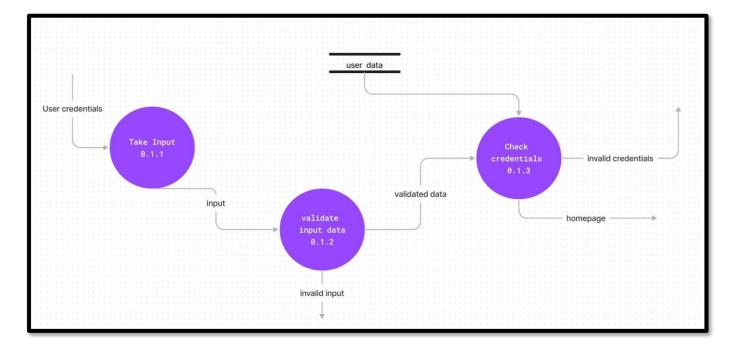
#### Context Diagram:

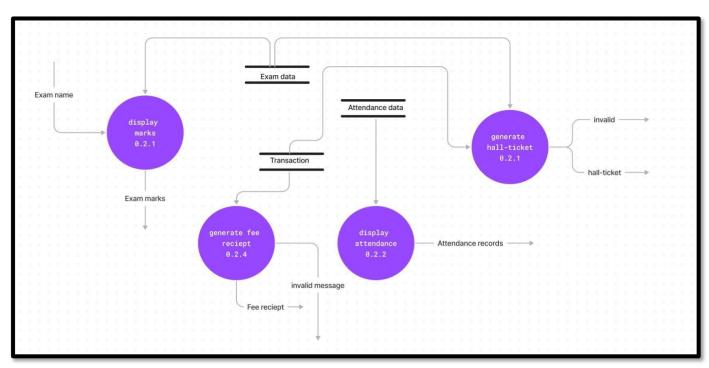


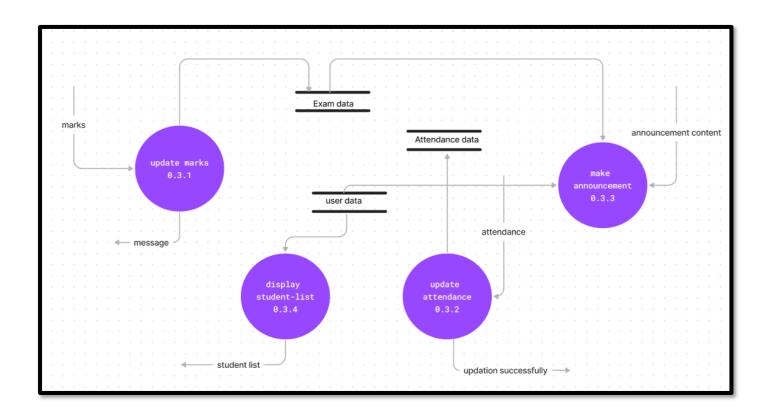
#### Level-1 DFD:

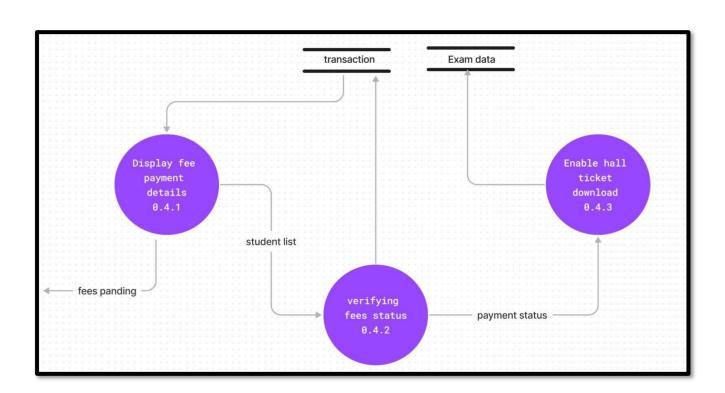


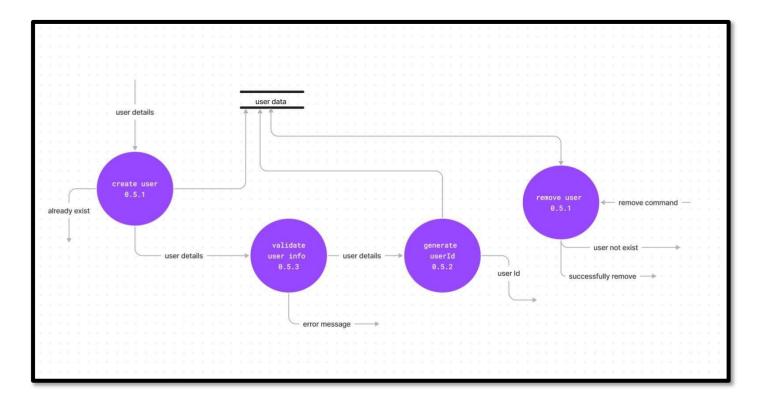
#### Level-2 DFD:



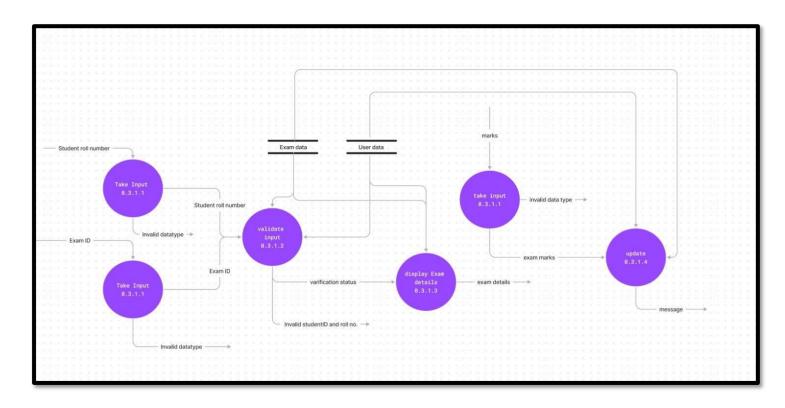


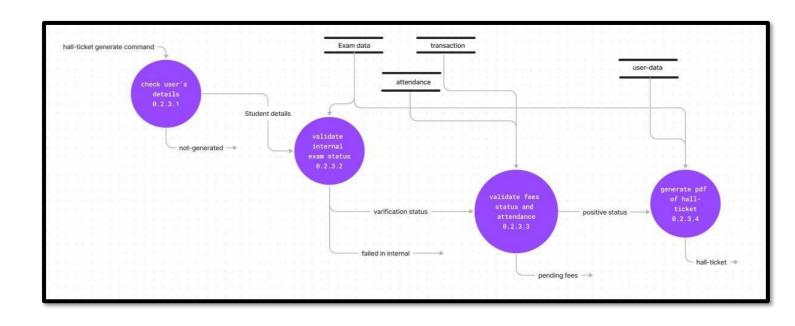






#### Level-3 DFD:





### Data dictionary for the DFD model:-

task releted data: command

response data: [academic data,message,]

academic data: [hall-ticket,exam marks,fees receipt,attendance recoards]

hall-ticket: roll#+date+subjects+room#+name+branch+semester

roll#:integer
date: date
subject: string
room#: integer
name: string
branch: string
semester: integer

exam marks:obtain mark+total marks+subject

obtain marks: integer total marks: integer

messege: [invalid input,invalid credentials,updation successfully,fees

panding, error, successfully remove, user not exist, invalid student id and roll no., invalid

data type, not generated, failed in internal]

user's data: [name+birthdate+gender+mobile#,blood-group+email-id]

birthdate: date geneder:choice mobile#: {integer}10 blood-group: string email-id: string

user credentials: id+password

id: string

password: password homepage: html page

exam releted data: exam name + exam-paper + exam type

exam-paper: subject+que+marks

que: string

exam-type: choice exam-name: string

fees receipt: name+semester+fees+bank name+payment-type+date

fees:-academic-fees+exam-fees+total-fees

academic-fees: integer exam fees: integer total fees: integer payment-type:choice

attendance records: total-days+present-day+overall percentage

total-days: days presentdays: days percentage: float

studentlist: studentname + roll#+div

div: char

announcement content: title+description+attachment

title:string

description: string attachment: file

remove-command: command

student roll#: integer examid: integer

hall ticket generate command: command

verification status: string positive status: string payment status: string