

Software Design Document

for

Online Doctor Appointment System

Prepared by

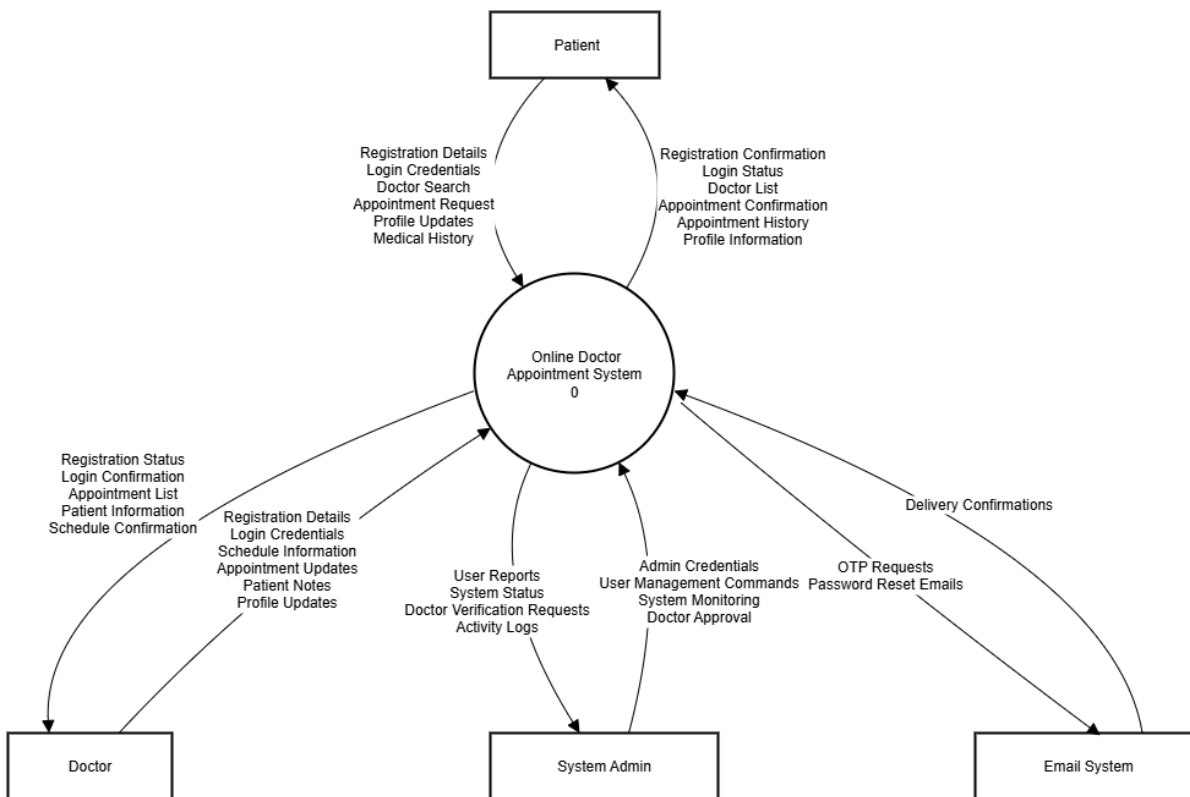
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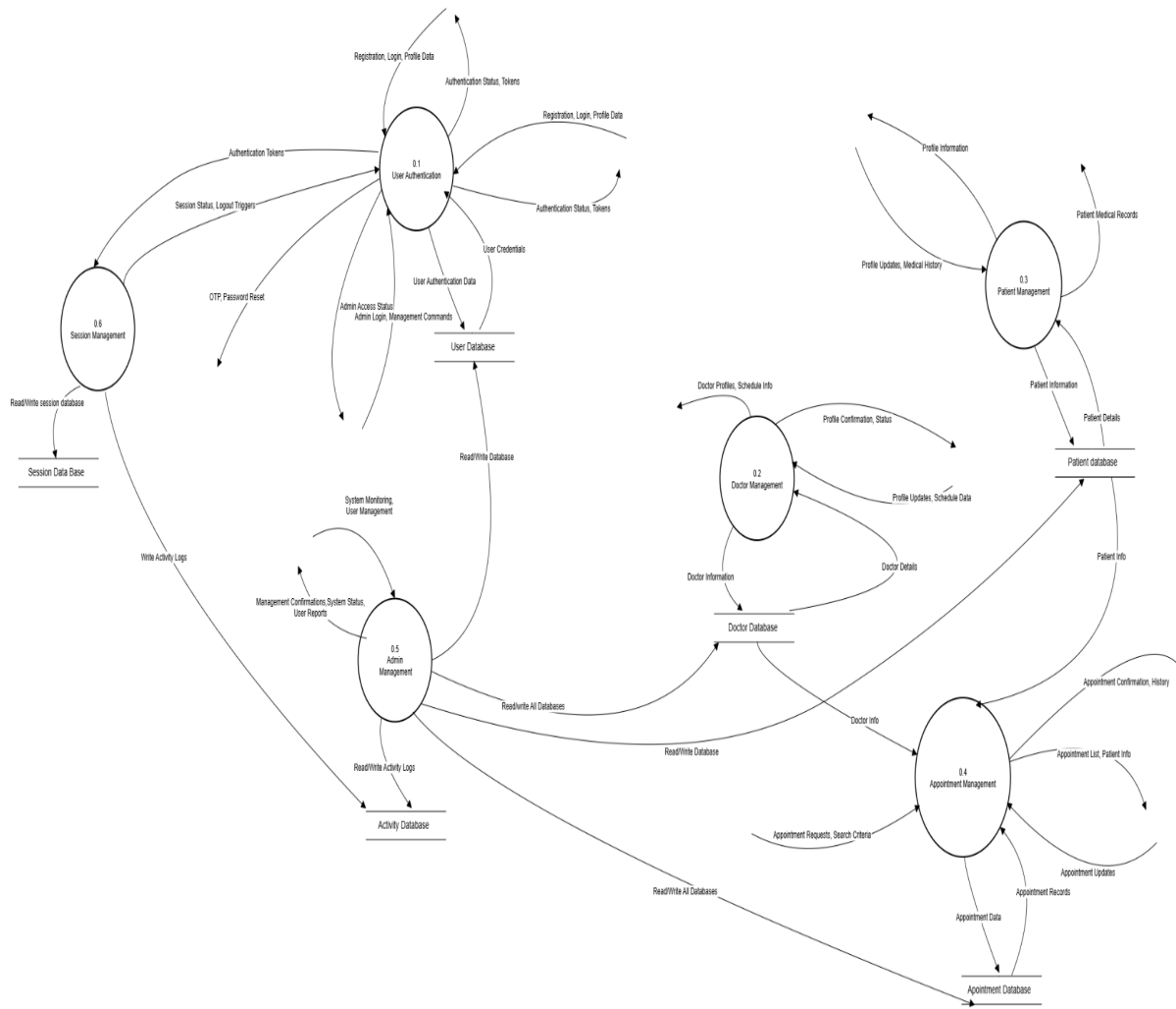
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Design Flow Diagram

Level - 0 :

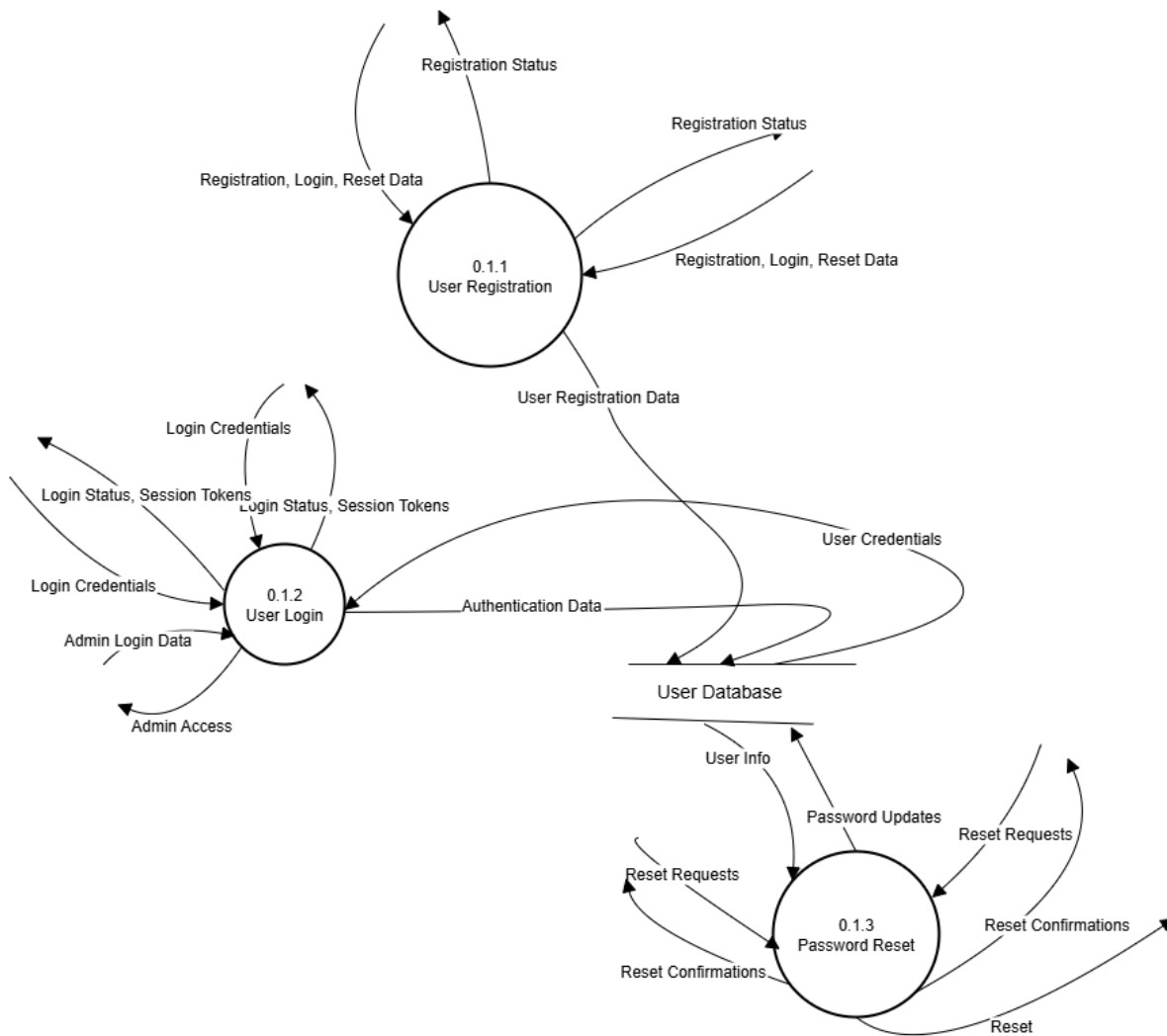


Level - 1 :



LEVEL - 2 :

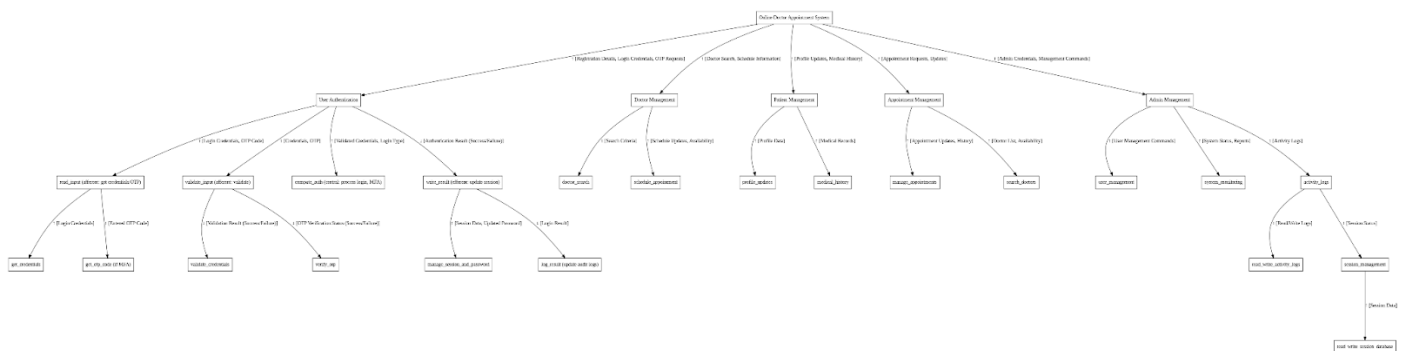
Authentication Management :



Appointment Management :



Structure chart :



Link for structure chart :

<https://drive.google.com/file/d/1Yg7QSe2o2DLzUWZKEwNkHFJU-u6LpAR8/view?usp=sharing>

Data dictionary for the DFD model of Online Doctor Appointment System:

user-record: {user-id + name + email + password + phone + role + registration-date}

patient-record: {patient-id + name + age + gender + phone + email + address + medical-history + allergies}

doctor-record: {doctor-id + name + specialization + qualification + experience + schedule + contact-info + verification-status}

appointment: {appointment-id + patient-id + doctor-id + date + time + status + notes}

login-credentials: {email + password}

registration-data: {name + email + password + phone + role + additional-info}

schedule: {doctor-id + available-dates + time-slots + booking-status}

medical-history: {patient-id + conditions + medications + allergies }

notification: {notification-id + recipient + message + type + timestamp + status}

admin-command: {command-type + target-user + parameters + timestamp}

report: {report-id + type + data + generated-date + requested-by}

otp-request: {email + otp-code + purpose + expiry-time}

email-data: {recipient + subject + body + sender + timestamp}

user-id: string

patient-id: string

doctor-id: string

appointment-id: string
notification-id: string
report-id: string
name: string
email: string
password: string
phone: string
role: string
registration-date: date
search-criteria: string
filters: string
location: string
specialization: string
age: integer
gender: string
address: string
medical-history: string
allergies: string
qualification: string
experience: integer
schedule: {available-dates + time-slots}
contact-info: {phone + email + address}
verification-status: boolean
date: date
time: time
status: string
notes: string

additional-info: string
available-dates: [date]
time-slots: [time-range]
booking-status: string
conditions: string
medications: string
previous-treatments: string
recipient: string
message: string
type: string
timestamp: datetime
command-type: string
target-user: string
parameters: string
data: string
generated-date: date
requested-by: string
otp-code: string
purpose: string
expiry-time: datetime
subject: string
body: string
sender: string
time-range: {start-time + end-time}
start-time: time
end-time: time

Modular Division of Work:

1) User Authentication

Designer: K.Udayram

Tasks:

Implement authentication logic, including credential input, OTP handling, and validation.

Manage session updates and audit logging.

Integrate with the main system for authentication status and tokens.

2) Appointment Management and Admin Management

Designer: P .Pavan Kumar

Tasks:

Implement appointment scheduling, updates, and doctor search within appointments.

Develop admin functionalities for user management, system monitoring, and activity logging.

Manage interactions with Appointment Database and Activity Database.

3) Doctor Management and Patient Management

Designer:C.Lohith Kumar Reddy

Tasks:

Develop doctor search functionality and appointment scheduling logic.

Implement patient profile updates and medical history management.

Ensure database interactions with Doctor Database and Patient Database.