PROJECT PATIENT PORTAL AND ENGAGEMENT

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Subproblem 1: User Authentication
- The user should be able to create an account or log in to an existing account
- Store user credentials securely in a database.
Pseudocode:
User authentication
def create_account(username, password):
Store username and hashed password securely in the database
def login(username, password):
Check if the username and password match the stored credentials
def logout():
Clear the user session
Subproblem 2: Patient Information Management
- Allow patients to view and update their personal information.
- Store patient information in a database.

Patient information management

Pseudocode:

def get_patient_info(patient_id):

```
# Retrieve patient information from the database based on patient ID
def update_patient_info(patient_id, updated_info):
  # Update the patient's information in the database
def view_medical_history(patient_id):
  # Retrieve the patient's medical history from the database
Subproblem 3: Appointment Scheduling
- Allow patients to schedule, view, and manage their appointments.
- Store appointment details in a database.
Pseudocode:
# Appointment scheduling
def schedule_appointment(patient_id, appointment_details):
  # Store the appointment details in the database
  ...
def get_appointments(patient_id):
  # Retrieve the appointments for a specific patient from the database
def cancel_appointment(appointment_id):
  # Remove the appointment from the database
```

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Subproblem 4: Communication and Engagement

- Enable communication between patients and healthcare providers.
- Implement features such as messaging and notifications.

Pseudocode:

```
# Communication and engagement

def send_message(sender_id, recipient_id, message):

# Send a message from the sender to the recipient
...

def get_messages(user_id):

# Retrieve messages for a specific user
...
```

def send_notification(user_id, notification):

Send a notification to a specific user