GitHub Issues for **"HealthSync"** Development

**Issue #1: Project Repository Setup- closed**

Objective: Establish a GitHub repository with appropriate branch management and access controls.

Tasks:

Create the repository.

Set up branch rules and merge policies.

Configure access for all team members.

**Issue #2: Environment Setup and CI/CD Integration**

Objective: Configure development, staging, and production environments with Docker and set up CI/CD pipelines.

Tasks:

Configure Docker containers for local and production environments.

Set up CI/CD pipelines with GitHub Actions for automated testing and deployment.

**Issue #3: User Authentication and Profile Management Setup-closed**

Objective: Implement user authentication and profile management.

Tasks:

Define database schema for user profiles.

Implement authentication using JWT.

Create profile management APIs.  
  
Used: Mongo DB.

**Issue #4: Medication Management Feature-closed**

Objective: Develop the medication management system with automated scheduling and reminders.

Tasks:

Create database models for medication schedules.

Implement scheduling logic and reminder notifications.

Integrate the ability to reorder prescriptions.

Used: Mongo DB and Twilio- for reminder notifications. And STRIP for reorder prescription.

**Issue #5: Appointment Scheduler System- closed**

Objective: Implement the appointment scheduler with transportation booking.

Tasks:

Integrate APIs for direct appointment booking with healthcare providers.

Ensure synchronization with the user's calendar.

Used: Leaflet API,

**Issue #6: SOS Emergency Feature Implementation-closed**

Objective: Develop the SOS emergency feature with location sharing and emergency contacts notification.

Tasks:

Implement one-click emergency call functionality.

Integrate GPS location sharing.

Set up automatic notifications to predefined emergency contacts.  
  
Used: Twilio- for one click emergency call and geocoder for GPS location sharing.

**Issue #7: AI Health Assistant Development- closed**

Objective: Develop an AI-powered health assistant using NLP for voice commands.

Tasks:

Implement OpenAI API models for NLP.

Integrate voice command functionality for interaction with the app.

Test and refine AI responses based on user feedback.

Used: Azure OpenAI API for NLP and Speech Service for speech-to-text. And used window.speechSynthesis for text-to-speech.

**Issue #8: Health Monitoring Integration**

Objective: Integrate health monitoring with wearable devices.

Tasks:

Connect the app with APIs from wearable devices to fetch health data.

Set up alerts for abnormal health readings to notify users and family members.

Ensure data accuracy and privacy compliance.

**Issue #9: Volunteer Connection Feature.**

Objective: Facilitate connections between elderly users and volunteers for support and companionship.

Tasks:

Create a system for volunteers to sign up and schedule availability.

Match volunteers with elderly users based on location, interests, and needs.

Develop communication tools within the app for secure interactions.

Implement feedback and rating systems for both volunteers and users.

**Issue #10: AI Nutritionist Development- closed**

Objective: Develop an AI-powered nutritionist that analyzes dietary habits and recommends personalized meal plans.

Tasks:

Implement dietary tracking functionality in the app.

Use AI to analyze dietary data and suggest meal plans.

Integrate with local grocery delivery services for automated grocery list generation and order placement

Ensure privacy and security in handling personal dietary information.

Used: Azure OpenAI API for AI-powered nutritionist. Food API and STRIP for automated grocery list generation and order placement.