**1. System Planning**

**1.1 Introduction**

This project aims to develop an innovative healthcare chatbot, called "**AI-Care Companion**." This bot uses state-of-the-art GPT (Generative Pre-trained Transformer) models to provide personalized healthcare information and assistance to users. By enabling users to engage in natural language conversations, the project aims to provide accurate and reliable healthcare advice, tailored to each user's individual needs and preferences.

**1.2 Problem Statement and Project Scope**

**Problem Statement:** Individuals often face difficulty accessing reliable and timely healthcare information, especially when it comes to simple health inquiries or initial guidance. Searching for health information online can lead to inaccurate or confusing results, increasing users' anxiety and potentially leading to poor health decisions. Additionally, individuals may find it difficult to keep track of medications or receive personalized nutrition and exercise advice.

**Project Scope:** This project focuses on developing an AI-powered chatbot capable of understanding and processing users' health-related queries in natural language. The bot will provide personalized health information based on the user's health profile, including medical history, symptoms, and preferences. Key features will include initial symptom assessment, medication reminders, basic diet and exercise recommendations, and general health education. The project will not aim to provide a definitive medical diagnosis or replace a healthcare professional's consultation but rather serve as a first-line assistance and educational tool.

**1.3 Business Case and Goals**

**Business Case:** Developing an innovative healthcare chatbot represents an opportunity to address a growing need for reliable and accessible health information. This bot could provide users with the convenience of getting answers to their health questions anytime, anywhere. It could also help alleviate the burden on healthcare professionals by handling routine inquiries and directing users to appropriate resources. Additionally, the bot could encourage users to adopt better health behaviors by reminding them of medications and providing dietary and exercise recommendations.

**Goals: This project aims to achieve the following objectives:**

* Develop a healthcare chatbot based on state-of-the-art GPT models.
* Provide personalized and accurate health information to users based on their health profile. Enable users to interact with the bot easily and conveniently in their natural language.
* Provide a wide range of basic healthcare services, including initial symptom assessment, medication reminders, diet and exercise recommendations, and general health education.
* Ensure the security and privacy of user data according to industry standards.
* Create a user-friendly and intuitive user interface.