**-:Project Overview and Requirement Document:-**

**1.Functional Requirements**:

Hardware/ Software Requirement

* Django Framework:
* Django (version 3.0 or higher)
* Python (version 3.7 or higher)
* YouTube API:
* Google API Client Library for Python
* YouTube Data API v3 credentials (obtainable from the Google Cloud Console)
* OAuth2 client library for authentication
* Dialogflow: Dialogflow API credentials (obtainable from the Google Cloud Console)
* Processor: 11th Gen Intel(R) Core(TM) i3-1115G4 @ 3.00GHz
* System type: 64-bit operating system, x64-based processor
* RAM: 8.00 GB (7.74 GB usable)

**2.Product Backlog (Feature List):**

1. Youtube Videos: Integration of a video player to provide a library of health and fitness-related Youtube videos, including workouts, tutorials, and motivational content.
2. Diet Plans: Development of personalized diet plans based on individual health goals, dietary restrictions, and preferences, with access to a variety of recipes and meal suggestions.
3. Exercise Recommendations: Creation of exercise routines and recommendations tailored to users' fitness levels, goals, and available equipment or space.
4. Timer: Implementation of a timer feature to help users track and manage their workout sessions effectively.
5. Music System: Integration of a music player or playlist functionality to enhance the workout experience with energizing music options.
6. PCOD Chatbot System: Development of a chatbot specifically designed to provide information, support, and guidance on Polycystic Ovary Syndrome (PCOS), addressing common questions and concerns.
7. Virtual Chatbot for Feeling Sharing: Creation of a virtual chatbot to provide a platform for users to share their feelings, experiences, and challenges related to health and wellness, allowing for emotional support and community engagement.
8. User Registration and Profile Management: Implementation of user registration functionality to create personalized profiles, enabling users to track their progress, set goals, and save preferences.
9. Expert Access: Integration of a system that allows users to connect with fitness experts, nutritionists, and mental health professionals for consultations, guidance, and support.
10. Content Management System: Development of a robust content management system to regularly update and expand the platform's resources, including articles, blogs, and educational materials.
11. Social Sharing: Integration of social media sharing features to allow users to share their achievements, progress, and content from the platform with their social networks.
12. Feedback and Rating System: Implementation of a feedback and rating system to collect user feedback, reviews, and suggestions for continuous improvement.
13. Analytics and Performance Tracking: Incorporation of analytics tools to track key performance indicators, such as user adoption rate, engagement levels, session duration, and overall satisfaction.
14. Responsive Design: Ensuring the platform is optimized for different devices and screen sizes, providing a seamless user experience across desktops, tablets, and mobile devices.
15. Accessibility Features: Implementation of accessibility features to ensure the platform is usable and inclusive for users with disabilities, including screen readers compatibility and keyboard navigation.
16. Security and Privacy: Incorporation of robust security measures and data privacy

**3.Work Flow Diagram:**

