**Project Scope**

The virtual assistant will be a Python application that performs various tasks based on voice commands. The core functionalities include:

1. **Voice Recognition**: Capturing and interpreting user voice commands.
2. **Text-to-Speech**: Responding to user commands with voice output.
3. **Web Search**: Performing web searches and providing results.
4. **Music Playback**: Playing music from a local directory or an online source.
5. **Setting Reminders**: Setting and managing reminders.
6. **Basic Operations**: Providing information like the current time, date, and weather.

**Features**

1. **Voice Recognition**:
   * Capture voice input from the user.
   * Convert voice input to text for further processing.
2. **Text-to-Speech**:
   * Convert text responses to voice output.
   * Provide audible feedback to the user.
3. **Web Search**:
   * Perform web searches using a search engine API.
   * Retrieve and present the top results to the user.
4. **Music Playback**:
   * Play music files from a specified directory.
   * Control playback (play, pause, stop, skip).
5. **Setting Reminders**:
   * Set reminders for specific times.
   * Notify the user when a reminder is due.
6. **Basic Operations**:
   * Provide the current time and date.
   * Fetch and read out the current weather conditions using a weather API.