Project Charter

Project Name: Modus.ai

Team 23: Rashmi Ananth, Manan Bhatia, Nikita Finchenko, Angela Kim, Jisoo Kim, Mihira Krishnaswamy

1. **Problem Statement:**
    a. Mental health problems are on the rise among several individuals in today's society. Quite often, these problems occur when individuals repress their emotions or are unable to fully understand them. They can benefit from tools that help facilitate the silos between their moods and the comprehension of their emotions. As a result, they can lead healthier lives by learning and understanding patterns within their moods.
    b. Modus.ai uses journal entries instead of a set of static questions to analyze the user's mood. This sets us apart from pre-existing apps by enhancing user autonomy and ensuring additional personalization.
2. **Project Objectives:**
    a. Analyze the user's current journal entry and display a thorough interpretation of their current mood (the aim is to identify different tones in each journal entry to provide the user with a detailed description of their current mood).
    b. For every user, the result of each analysis will be stored in our database so that we can track the user's mood over time and display their progress.
    c. Suggest ways to attend to the user's mood and provide relevant external resources. This would include providing appropriate mental health resources based on their current and past records.
3. **Stakeholders:**
    a. Users: Individuals who journal or are looking for innovative mental health help/resources.
    b. Developers: Rashmi Ananth, Manan Bhatia, Nikita Finchenko, Angela Kim, Jisoo Kim, Mihira Krishnaswamy
    c. Project Owners: Rashmi Ananth, Manan Bhatia, Nikita Finchenko, Angela Kim, Jisoo Kim, Mihira Krishnaswamy
    d. Project Manager: Isha Mahadalkar
4. **Deliverables:**
    a. A **web application** that uses a journal interface where the user could write down anything (similar to old-school journaling). The application would predict the user's mood by analyzing the text. Each user's journal entries will be stored in our database for future analysis. The application would track each user's progress over time by analyzing the stored entries.

b. Platforms/Frameworks:
    i. Backend language: Python
    ii. User Interface/Front-end: React, HTML, CSS
    iii. Database: Firebase
    iv. Source Control: Git
    v. CD Pipeline: Jenkins
    vi. AI/ML frameworks: NLP, sentiment analysis algorithms