Team 5 Project Charter
Budget Busters

Team Members
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Problem Statement
Financial literacy and planning is an extremely essential and yet overlooked skill for most young adults, especially when they are living in a city. The various factors that go into forming a budget, along with the stress of managing one's own money for the first time, is what prompted us to create a budgeting app to easily organize personal finances for young adults. With Budget Busters, users can set monthly budget goals and track their daily spending, encouraging them to be more attentive with their spending habits and make necessary adjustments to meet their goals. Budget Busters is different from most budgeting apps because it gives a friendly introduction to money management through visual representations of user spending data and goal setting features.

Project Objectives
    a. Create a web application that allows users to input their daily spending and saves that information to monitor their spending throughout the month
    b. Users can input a budget goal per month and enter specific spending categories detailing what that budget would consist of. Ex. Budget goal of $500/month; Categories include: rent, groceries, shopping, & entertainment.
    c. Users can input their daily spending and organize it according to a specified category. Ex. A user enters $20 for the day; they organize the spending into the shopping category.
    d. Users will receive a mobile notification everyday to input their daily spending.
    e. Users will be able to see their spending trends in the form of graphs at the end of every month.
    f. Users can customize their notification alerts on the app (for daily spending, approaching budget limit, and monthly goal setting).

Stakeholders
    a. Users: Young adults, typically college students, residents in major cities.
    b. Developers: Aditi Barla, Rosemary Ajish, Sarah Pushparaj, Angela Joseph
    c. Project Coordinator: Jason Lee
    d. Project Owners: Aditi Barla, Rosemary Ajish, Sarah Pushparaj, Angela Joseph

Deliverables
    a. <u>Major Outputs & Services:</u>
        1. Utilize ASP.NET Core Authentication framework to implement a user authentication system
        2. Create a React JS frontend framework to build an interactive budgeting tool, including features like buttons, navigation bar, and input fields for users to enter data
        3. An interface (ex. Node JS) will be used to give server network requests to the frontend

4. Firebase and/or a MySQL database to manage user profiles and user spending data
5. Develop a Java-based backend to generate pie charts and other forms of data representation
6. Leverage AWS API to call GPT-model to generate visual graphs of the user's spending trends at the end of each month

a. <u>Platforms/Frameworks:</u>
   1. Design: Figma
   2. Front-end: React
   3. Back-end: Java, Node JS
   4. Database: Firebase/MySQL
   5. Git