Team 5:

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Overall Theme: Exploring the Global Market of Chocolate

Rationale: We want to create a website for entrepreneurs and potential investors insteres in the chocolate industry. In our website we want to provide basic competitive information about key aspects of the industry:

- 1. The best countries to source raw materials
- 2. Get to know the most important global manufacturers and what type of beans they use in their manufacturing process
- 3. Establish if there's a correlation between the origin of the bean and the quality of the final product
- 4. Which markets are more specialized in manufacturing chocolate
- 5. Explore the relationship between the "purity" of the chocolate and the quality of the final product

Ideas of data visualizations for the chocolate rating data (highlighted by topic):

- Correlation between the bean vs. the overall rating
- Where are the best cocoa beans grown?
- Which countries produce the highest-rated bars?
- What's the relationship between cocoa solids percentage and rating?
- What is the best manufacturing country based on rating?
- Average rating by country per year? (we need to check data availability)
- Best Manufacturers based on average rating
- We could compare a few companies over the years and their ratings
- Most popular cocoa beans over time
- Particular year-top 5 company locations

Overall Diagram of the Page:

Page	Content	Technical Notes
Index	Show a summary of the content included in the webpage. We can show a preview of some of the graphics that will be on each section with a description of the content.	Html

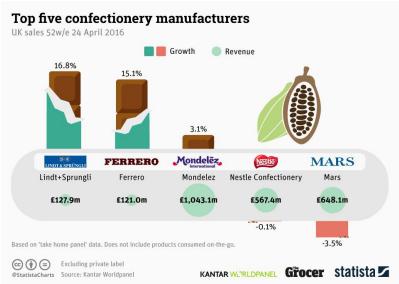
	The images will be a link to visit each section.	
Global Market	 Where are the best cocoa beans grown? Which countries produce the highest-rated bars? What is the best manufacturing country based on rating? Average rating by country per year? (we need to check data availability) 	Plotly leaflet
Global Manufacturers	 Best Manufacturers based on average rating We could compare a few companies over the years and their ratings Particular year-top 5 company locations 	D3/plotly
Sourcing Cocoa	 Correlation between the bean vs. the overall rating What's the relationship between cocoa solids percentage and rating? Most popular cocoa beans over time 	Flask and sql alchemy

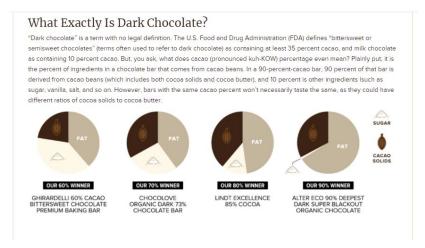
Dataset Chosen: https://www.kaggle.com/rtatman/chocolate-bar-ratings

Repository: https://github.com/kborig89/Project2-Team5

Inspiring Visualization:













Flavors of Cacao Rating System:

- 5= Elite (Transcending beyond the ordinary limits)
- 4= Premium (Superior flavor development, character and style)
- 3= Satisfactory(3.0) to praiseworthy(3.75) (well made with special qualities)
- 2= Disappointing (Passable but contains at least one significant flaw)
- 1= Unpleasant (mostly unpalatable)

Dashboard

- 1. Heat map of country of origin
- 2. HeatMap for the ratings
- 3. Moving scater (like ploty homework)
- 4. Pie chart visualization & Bar graphs

sqlAlchemy & flask & sqlite