Vehicle Fleet Management System

Group 02-04:
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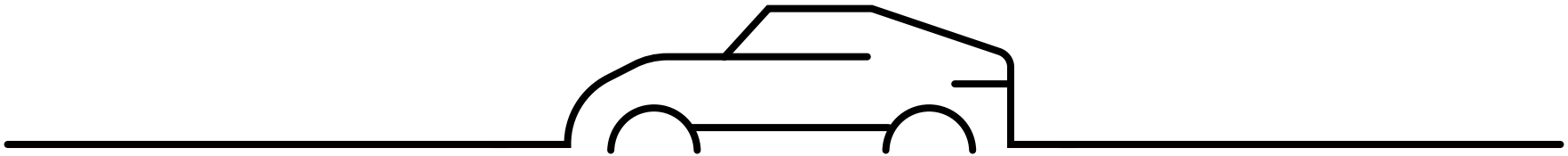
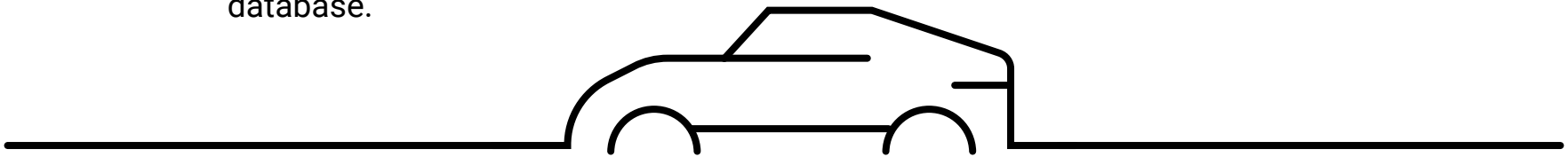
Need and Approach

- **Need:**
  - Build an application that assists in decision making by TCNJ to determine the best makeup of the TCNJ vehicle fleet economically and environmentally.
  - The stakeholders that will benefit from this information are Paul Romano, as well as TCNJ and the environmental staff.
- **Approach:**
  - We took a user friendly and straightforward approach. The data we received from the stakeholder was related to environmental and economic attributes, so we focused on those areas to determine what to analyze in the website.
  - We built a database using PostgreSQL, and implemented a web-based user interface that connects to the database using Flask, HTML and CSS.



Benefits and Cost

- **Benefits:**
  - TCNJ does not currently have a vehicle fleet management system, this would prove beneficial to the college by lowering cost.
  - This will also be environmentally beneficial since it would help TCNJ in making decisions about which vehicles to employ, working toward the goal to lower their emissions.
- **Cost:**
  - We would have to create a new website and purchase a domain name, website hosting plan, and transfer the app to a new server.
  - In order for TCNJ to use this application, they would need to host the application and database on a server, which may cost money depending on database size
  - A database administrator/website administrator is needed to manage and update the database.



Project Demo

The College of New Jersey

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