Team 10 Initial Project Description

- **Team Name:** Team 10
- **Team Members and email addresses:**
  - Ryan Ahlgren, r321a200@ku.edu
  - Michael Bechtel, m783b224@ku.edu
  - Taylor Hockersmith, t612h160@ku.edu
  - Dustin Horvath, d553h471@ku.edu
  - Cheng-Yeh Lee, chengyeh@ku.edu
  - Rusty Riedel, r582r656@ku.edu
- **Meeting Time:** Fridays at 4:00 PM
- **This is an unsponsored project**
- **Project description:**

Nonprofit organizations that deal with donations require impeccable management and coordination to connect the people who request assistance with the provided donations. Additionally, a nonprofit usually relies on funding of some sort, usually grants, to remain operational and provide services to those in need. Grant applications need to include specific metrics that prove the program is achieving the community’s need in order to be awarded.

Our creation of a deployable software for a nonprofit organization would allow for easier management of all the moving pieces in a donation reception process. It would allow for people who were in need to easily request assistance. Items donated would be stored in a database, so a detailed list of inventory would be accessible at all times, improving oversight of the donation process. To continue the funding of the nonprofit using the software, the software would generate reports on useful metrics to prove its efficacy to those approving the grant requests. This would remove the human data processing element in the grant writing process giving the grant writer the ability to write more grants to receive additional funding.

- **Project Milestones:**
  - **October 3: Initial Project Description**
    - Finalize the members of the group, have an idea of where they will fit in the design of the project.
    - Establish the project to be completed, and outline the milestones for the first and second semesters.
    - Form a general idea of the requirements of the project, and the tools we will use to complete it.
  - **October 24: Project Proposal**
Finalize responsibilities for each member. Each team member should now know exactly what they need to accomplish for the semester and have a schedule for delivery times.

Finalize hardware, software, and computing resources. We should have established the best technology available to use for the database, front end, backend, and servers.

Outline of all preliminary use cases. We should have a solid understanding of all the cases we need to provide for, and the requirements needed to fulfill those cases.

Initial design of the front end, back end, and database.

Understand how every piece of the software will fit together, and what each piece will be responsible for.

- October 28: Project Proposal Video
  - Make the problem visual and try to explain the importance to a wide audience.
  - Describe how we will implement the software.

- December 9: End of Semester
  - Ready for implementation
  - Finalized designs of database, front end, and back end. Communication throughout is documented and outlined.
  - Any additional edge use cases are included in the designs
  - Any additional functionality under consideration is documented but sidelined, pending implementation progress.

- February 17
  - Functioning standalone programs for the database, front and back ends.
  - Each should be able to handle use cases for basic functionality

- March 17: Start of Spring Break
  - Fully functional prototype with interconnection of front end, back end, database, and servers.
  - Have a functional product that can fulfill the basic requirements to be considered a completed project
  - Leave time before the end of the semester to prepare for delays or to include additional functionality or documentation

- May 5: Stop Day
  - Completed project
  - Include all the functionality for a useful donation management system
- **Budget:**
  - Our project can be done at no cost for development. Only when the software we build is deployed will it require a server to run it. All the tools and programs used to build it can be found for free.

- **Work plan:**
  - Backend developer: Cheng-Yeh Lee
  - Backend developer: Ryan Ahlgren
  - Frontend web developer: Taylor Hockersmith
  - Frontend web developer: Michael Bechtel
  - Database designer: Cheng-Yeh Lee
  - Database designer: Dustin Horvath
  - Web designer: Rusty Riedel
  - Backend architect: Dustin Horvath

- **Github link:**
  - We will be using a Github repository, but that has yet to be set up. You will receive links to the repository when it is created.