Executive Summary (OurSpace)

- **Overview.** Put this project in context, perhaps including a story or example. What is the problem it is trying to solve? Why does this problem exist?
  - **OurSpace** hopes to solve the issue of wasted traveling time, long wait times, and the overall lack of space-time related information. We hope to build an app that fosters a mutualistic community that shares real-time information regarding the availability of certain spaces, estimated wait times, and similar content. In a community with access to such information, users can avoid traveling to destinations only to discover inexplicably long waits, filled capacities, and congested spaces. This problem exists due to the lack of accurate real-time information about spaces.

- **Target Users.** What type of people or area will this project serve?
  - The project will first be piloted on Duke's campus, serving Duke students, faculty, and visitors. Later, the project aims to expand into cities and communities where real-time space information can save time and money, such as UNC, Wake, Seoul, and New York.

- **Value.** What will be improved or changed by this project? What is its value to its target users?
  - We are saving people’s time through this project. The value is through instantaneous information transfer that saves people the time of finding it out themselves. We are also incentivizing people to be honest and get a reward for being honest and providing trustworthy information.

- **Functionality.** What is this project going to do?
  - The project will allow users to ask and answer questions regarding the busyness and availability of certain areas such as study spaces, restaurants, and recreational facilities. The goal is to build a community that shares accurate information to allow users to plan ahead, avoid wait times, and prevent unnecessary travel.

- **Technical Recommendation.** What is your rationale for the software and hardware you plan to use?
  - What technology does the client want to use and why (iOS, Android, Web app, etc.)?
    - The client wants to develop a web app with comprehensive server and database frameworks with admin web access. The client also wants an admin web server that allows engineers to monitor the data that is generated via the app.
  - What technology does the team recommend and why?
    - Flask. Besides that, the client has settled on the technologies they wish to use.
  - What expenses might your recommendation incur (especially think about paying for a server, either physically or in the cloud)?
    - Database storing, API access, AWS expenses.