

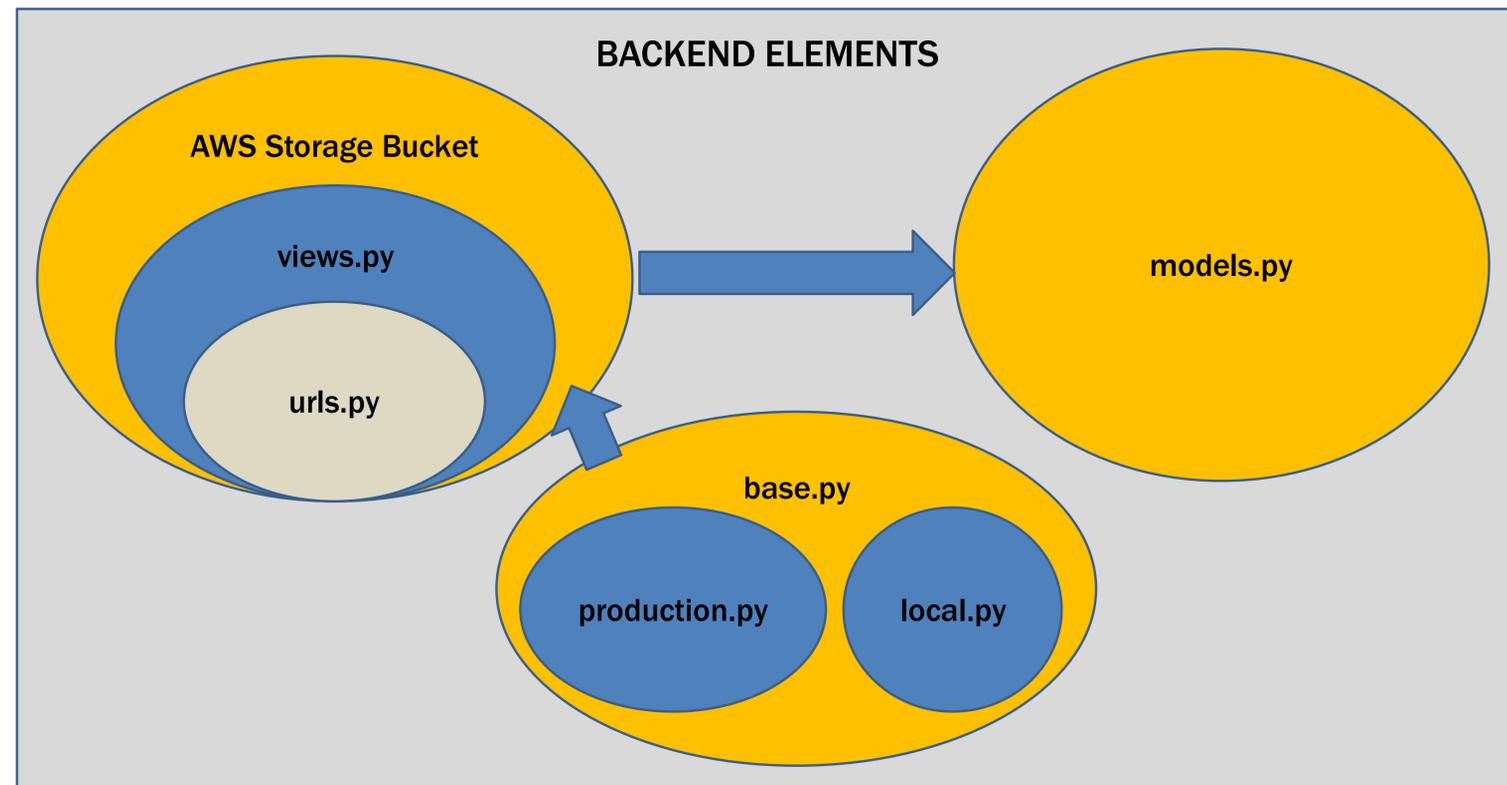
Assigned Problem

Lockheed's Generative Design Contest will give people time to design, manufacture, and test hardware. The start of the contest would be months before the voting. A length of time will be open for PowerPoint submission entries then after the deadline, voters will have time to see the entries and select.

Generative Design

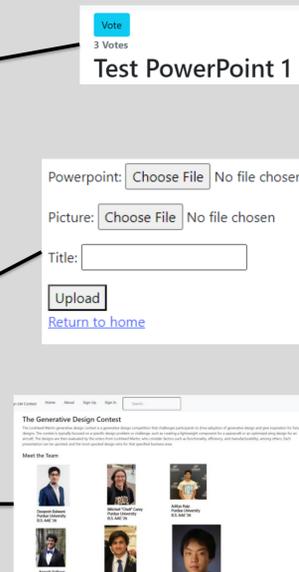
- Generative design is an innovative technology that uses artificial intelligence and algorithms to generate optimized and innovative designs for various products and systems.
- It works by defining constraints and objectives, such as material properties, manufacturing limitations, and functional requirements, and then using machine learning and optimization techniques to generate a wide range of potential design solutions.
- Generative design can significantly speed up the design process, reduce costs, and improve product performance by exploring design options that may not have been considered using traditional design methods.
- It is particularly useful in fields such as architecture, engineering, and manufacturing, where there are many variables to consider when designing a product or system.
- Generative design can lead to more sustainable, efficient, and stronger products, as well as improved customer satisfaction.
- It is important to promote because it can revolutionize the design process, enable faster product development, and create better and more optimized products.

BACKEND ELEMENTS



FRONTEND ELEMENTS AND INTERACTIONS

- Visually appealing toolbar
- CSS, and HTML
- Visual of search bar before sign in and after
- Vote button
 - Iterates voting counter
 - Only one vote per user
- Searching button
 - Being able to find entries by title or submitter
- Submission button
 - Can submit their Creo embedded PowerPoint File, thumbnail, and submission title
 - File submissions other than .pptx and .jpg will not be accepted
- About section
 - Allows all users to learn about the process of generative design and what it means in the context of Lockheed Martin
 - Introduces the users to the development team behind the scenes



BACKEND/FRONTEND UNIFICATION

