**1. Conceptual Narrative**.  
In developing the "Papilio" project, our team not only had studied Fijian culture and traditions but also has learned about the discovery of a new swallowtail butterfly species, Papilio natewa, in 2018. Inspired by this discovery, we have chosen this butterfly as the central image for our project. The module designed for energy and water harvesting is shaped like two butterflies facing each other. There are two types of modules: one for electricity generation and the other for water collection. Our project includes three pavilions of varying sizes, an amphitheater, and a performance space. These structures will be built using endemic Fijian timber.

Advantages of our project:  
1. Hydroponics: Enables the cultivation of greens despite having irrigation issues.   
2. Shaded areas: Provide shelter from the sun.  
3. Pavilions and performance space: Offer venues for various events.  
  
**2. Technical Description.**  
Photovoltaic solar cells are used for electricity generation. One module generates 24 kW. Annually, the entire structure will produce 279,552 kWh.  
For water collection, we utilize fog-harvesting mesh, which condenses fog into atmosphere.  
The exact operation period of these modules varies depending on the mesh inclination  
  
**3. Prototype Development.**  
Initially, a scale model and a comprehensive set of detailed blueprints will be created. Next, a single module will be constructed. Following its approval, the remaining modules will be built. A key feature of our project is its expandable modular design system: in the future, if the community requires more energy, they can construct identical modules and connect them to the existing structure. Throughout the process, the opinions of local residents will be considered, including their input on the final design of the modules.  
  
**4. Operation and Maintenance Report.**  
The installation will feature a hydroponic system aimed at growing greenery for the community open park area. The collected water and electricity will be transported via underground pipelines and cables to each household and other facilities.