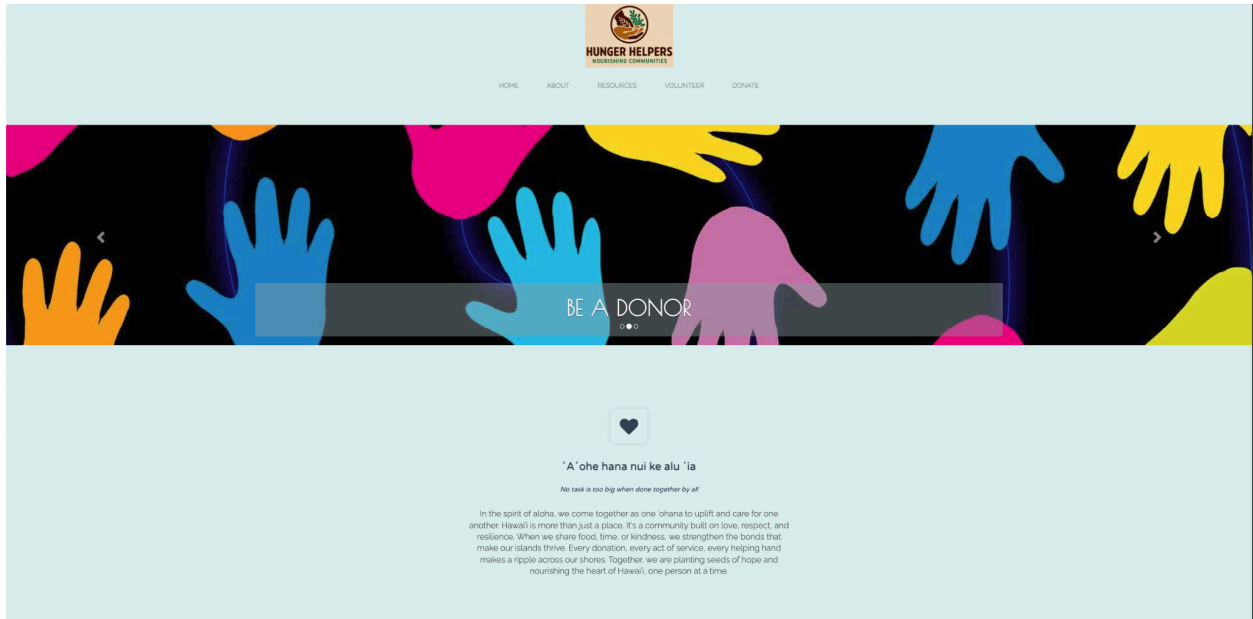# PDF Report

Introduction

Food insecurity continues to affect communities across Hawaiʻi, despite the deep-rooted values of aloha and ʻohana. Our team developed **Hunger Helpers**, a community-centered web application that connects users with resources to find food support, volunteer opportunities, and trusted organizations to donate to. The platform provides an accessible way for people to contribute to the betterment of their community and for those in need to find timely assistance.

API

This project utilizes Flask as the primary web framework. While the project does not interact with third-party REST APIs, we built internal routes to render HTML templates and organize the site navigation.

Each route corresponds to a major page:
- `/index.html` – Home page with message and carousel
- `/about.html` – Team info and group mottos
- `/resources.html` – Food support organizations
- `/volunteer.html` – Volunteer opportunities
- `/donate.html` – Donation support

```python
resource_data = [
    {"name": "Aloha Harvest", "image": "img/AlohaHarvest.jpg", "url": "https://www.alohaharvest.org/", "description": "Aloha Harvest is a Hawaiʻi-based nonprofit that rescues quality excess food and delivers it free of charge to organizations feeding thos
    {"name": "The Pantry", "image": "img/Pantry.png", "url": "https://www.thepantry.org/", "description": "The Pantry is a food distribution service by Feeding Hawaiʻi Together, offering a grocery-style experience where individuals and families can selec
    {"name": "Hawaiʻi Food Bank", "image": "img/FoodBank.jpg", "url": "https://hawaiifoodbank.org/", "description": "Hawaiʻi Foodbank provides food assistance to families, keiki, and kūpuna across the islands, working with a network of partners to ensure
    {"name": "Angel Network Charities", "image": "imgs/angelnetwork.png", "url": "https://www.angelnetworkcharities.org/", "description": "Angel Network Charities provides food, basic necessities, and supportive services to individuals and families in nee
    {"name": "River of Life Mission", "image": "imgs/riveroflife.png", "url": "https://www.riveroflifemission.org/", "description": "River of Life Mission provides meals, essentials, and hope to Honoluluʻs houseless community, helping people move toward
    {"name": "Giving Hope Hawaiʻi", "image": "images/GiveHopeLogo.png", "url": "https://www.givinghopehawaii.org/", "description": "Giving Hope Hawaiʻi supports those in crisis by offering resources and services that restore dignity and inspire lasting c
    {"name": "Aloha United Way", "image": "imgs/auw.png", "url": "https://www.auw.org/", "description": "Aloha United Way connects people and resources to improve lives, supporting programs that build a stronger, healthier Hawaiʻi."},
    {"name": "Hawaiʻi Meals on Wheels", "image": "imgs/hmow.png", "url": "https://hmow.org/", "description": "Hawaiʻi Meals on Wheels delivers meals and care to homebound seniors, helping them stay nourished, independent, and connected."}
]


@app.route('/resource_data', methods=['GET'])
def get_resources():
    return resource_data

@app.route('/index.html', methods=['GET'])
def index():
    return render_template('index.html')

@app.route('/about.html', methods=['GET'])
def about():
    return render_template('about.html')

@app.route('/donate.html', methods=['POST', 'GET'])
def donate():
    return render_template('donate.html')

@app.route('/volunteer.html')
def volunteer():
    return render_template(
        "volunteer.html",
        organizations=volunteer_data["organizations"],
        upcoming_events=volunteer_data["upcoming_events"]
    )


@app.route('/register', methods=['POST'])
def register():
    data = request.get_json()
    name = data.get("name")
    org_name = data.get("organization")

    for org in volunteer_data["organizations"]:
        if org["name"] == org_name:
            if "members" not in org:
                org["members"] = []
            org["members"].append(name)
            return jsonify({"message": f"{name} added to {org_name}"}), 201

    return jsonify({"error": "Organization not found"}), 404

@app.route('/remove_member', methods=['DELETE'])
def remove_member():
    data = request.get_json()
    name = data.get("name")
    org_name = data.get("organization")
```
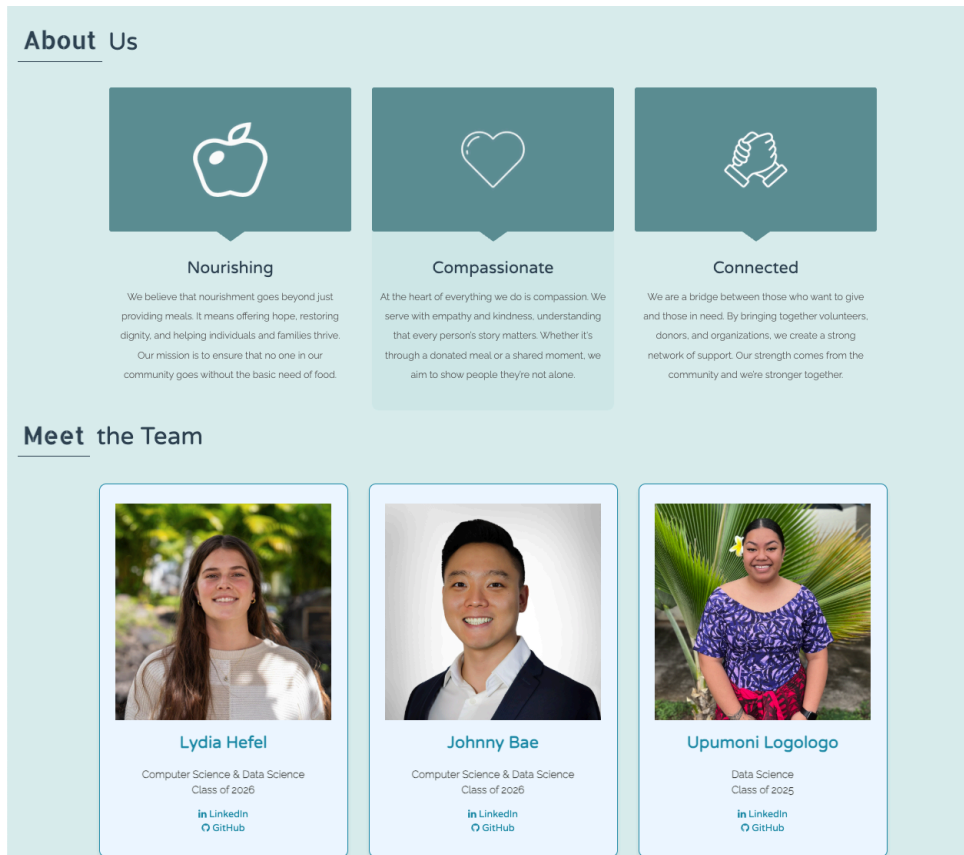

Front-End Design

Our front-end was built using HTML5, CSS3, and Bootstrap for a responsive and intuitive experience. We used Font Awesome for icons and emphasized a layout that feels warm and welcoming, rooted in the culture and community of Hawaiʻi.

Design Elements:

- Header navbar with five main pages

- Carousel on the home page with overlay captions
- "Meet the Team" section with bios displayed in image cards
- Resource and Volunteer pages using a grid layout

Database

While the current version of Hunger Helpers does not utilize a live database, it is structured to support one in future iterations. We plan to use SQLAlchemy with Flask to store information dynamically.

Example Model (future):

python
CopyEdit
```python
class Organization(db.Model):
    id = db.Column(db.Integer, primary_key=True)
    name = db.Column(db.String(100))
    category = db.Column(db.String(50))  # e.g., 'Food Support'
    website = db.Column(db.String(200))
```
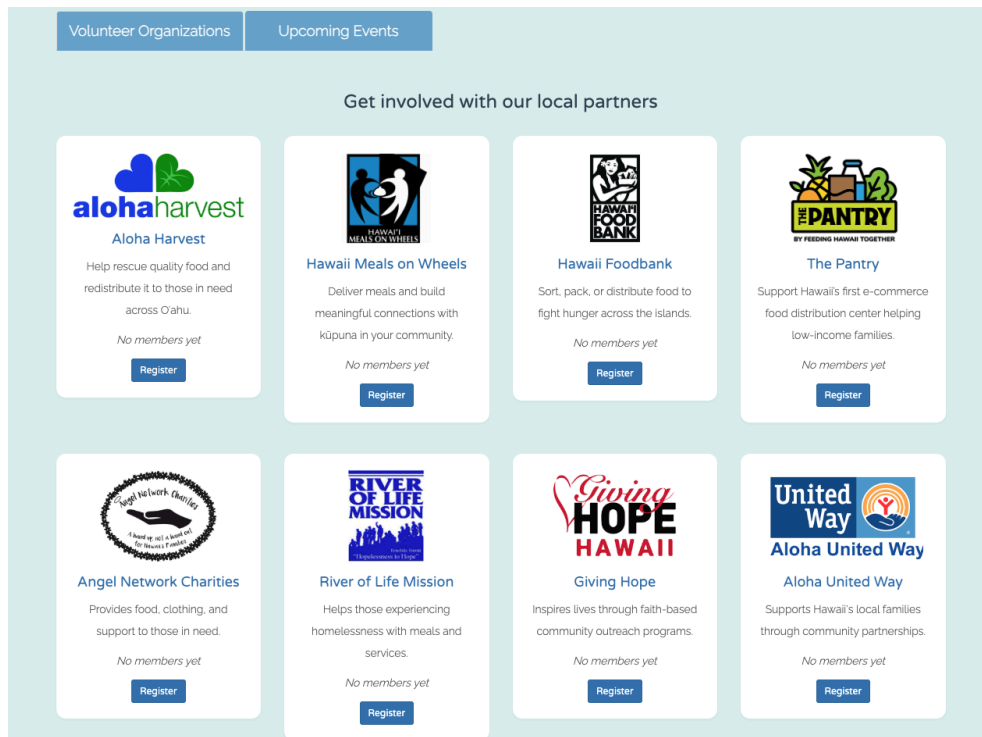

Challenges

Some of the biggest challenges we faced included:

- **Image Formatting:** Getting different-sized images (especially logos and team photos) to display consistently.

- **Mobile Responsiveness:** Ensuring the site looked good on smaller screens using Bootstrap grid classes.
- **Code Collaboration:** Learning how to push/pull from GitHub and avoid merge conflicts while working as a team.

Successes & Learning:
- Used Bootstrap effectively for responsive layouts
- Gained practical experience with Flask routing
- Built team workflow using GitHub

Future Improvements

In future development, we plan to:
- Add form functionality for users to sign up to volunteer or request food help
- Create a login system with user authentication
- Implement a database to store and dynamically render organization and event data
- Add an interactive calendar or RSVP system for community events

Conclusion

The Hunger Helpers website showcases how code can build community. Through this project, we learned new technical skills, collaborated effectively as a team, and created something meaningful. We're proud of the foundation we've built and are excited to keep improving it for the people of Hawai'i.