Reiman Gardens Butterfly Application

Group Members: Sam Sells, Bailey Wanders, Johann Guepjop, Caleb Donavon

Clients: Nathan Brockman, Anita Westphal
Project Faculty Advisor: Ashraf Gaffar

Problem

Our project is based upon improving and expanding a site for Reiman Gardens that meets the requirements of the three user types

Solution

Build Reiman Gardens an inventory management system and visitor site and allow other organizations to build their own off of this framework.

Operating Environment - delivered over the Internet through a browser

Functional Requirements

- Superusers can create accounts for other organizations
- Superusers can retrieve login credentials for individuals
- Registered users can upload and edit data on their organization's site
- Registered users can customize their organization's site
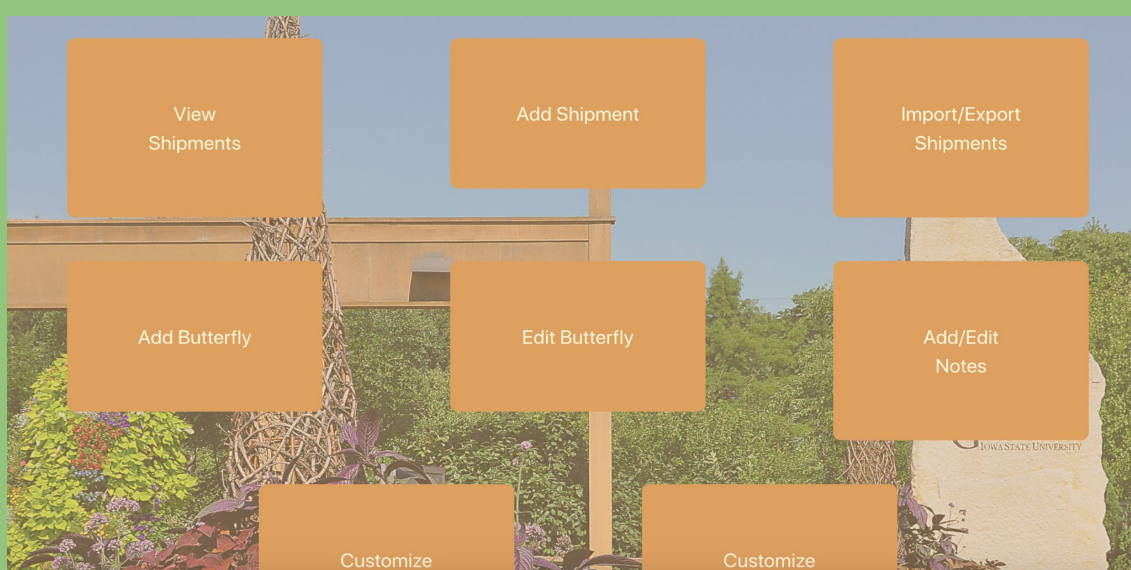
Non-functional Requirements

- Consistent styling site-wide
- Users stay within their access rights
- Cross-platform compatibility
- Scalability
- Maintainability

Relevant Standards/Constraints

- Labor: At least 4 experienced developers are required to complete this project
- Time: The project should be functional and meets the functional requirements
- Budget/Cost: The project will be funded by Reiman Gardens with a budget made by the client
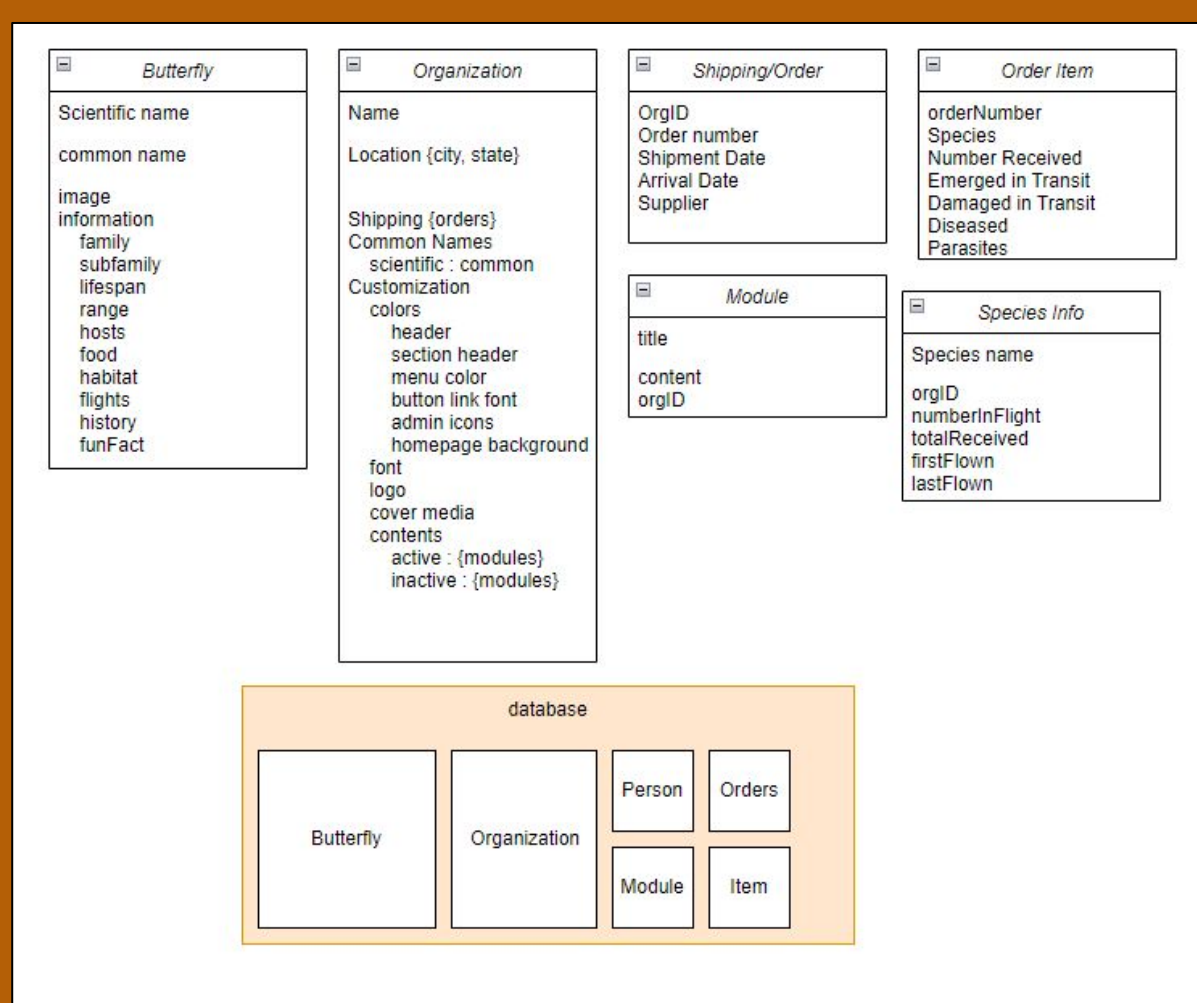
Current Status

Functionalities: Add/Edit Butterfly and Shipment, Import/Export Shipments, Customize Modules/Page, Parks Around the World, Gallery, and Home Page
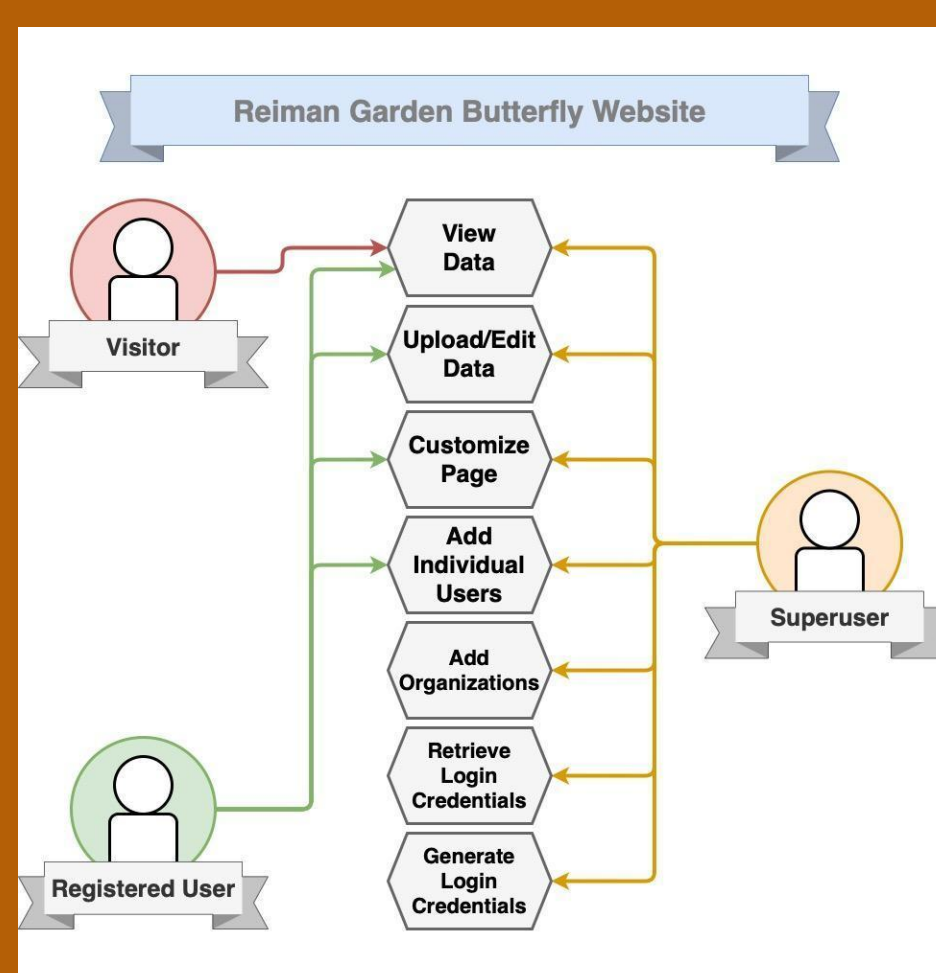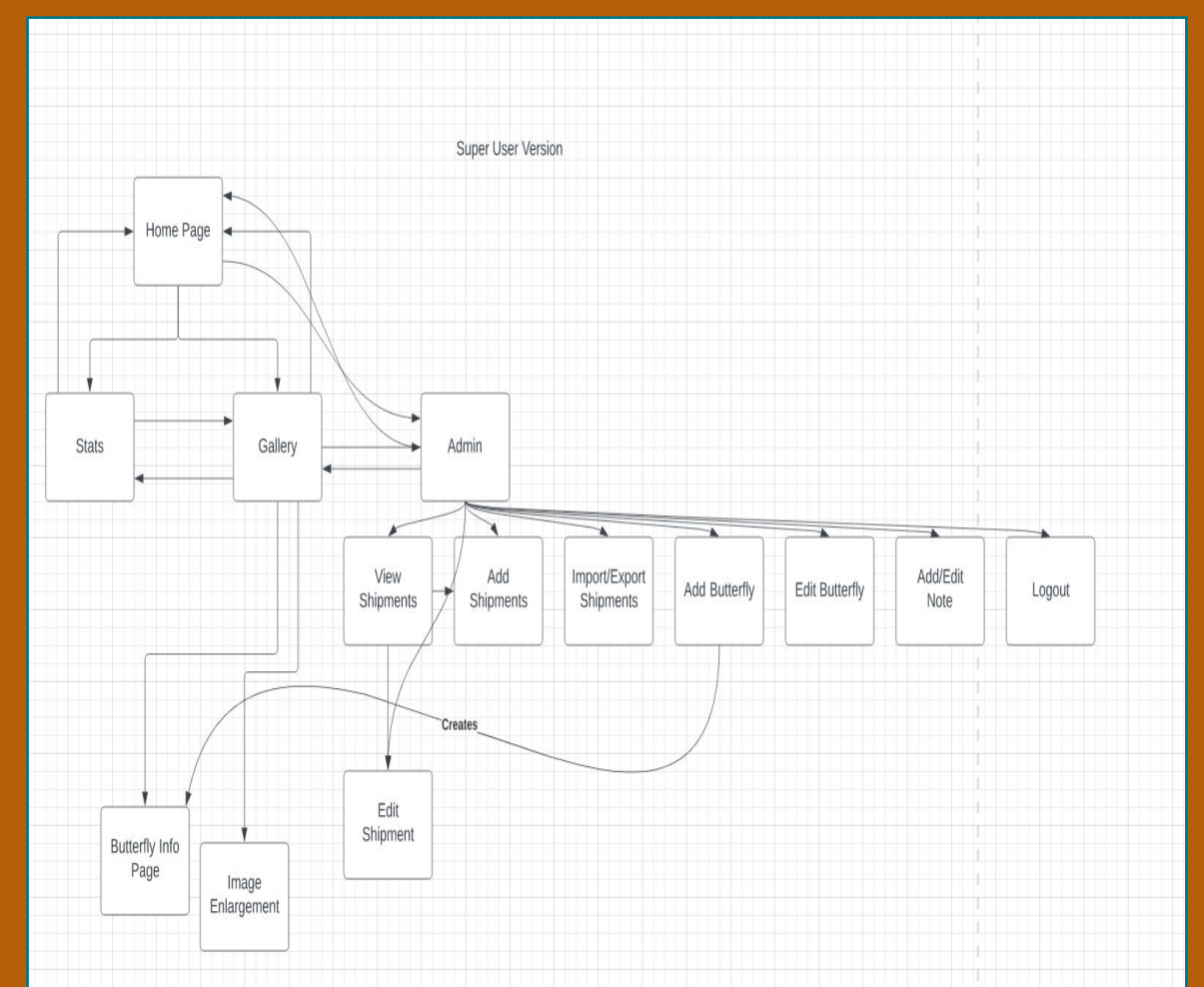

Design Approach

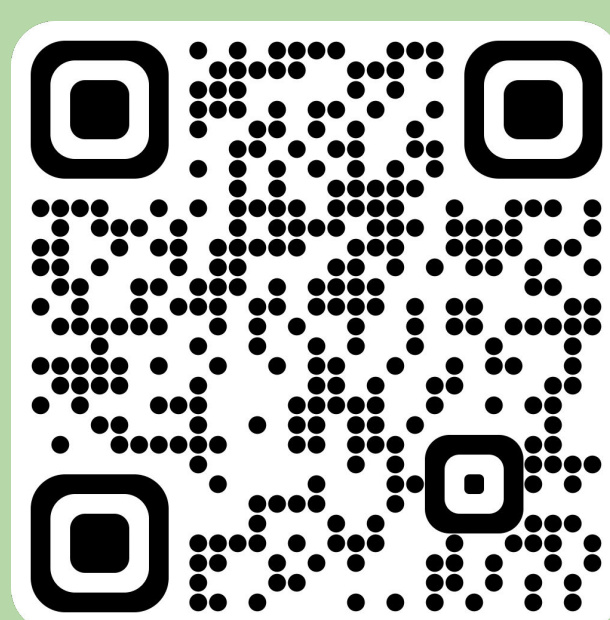### Database Diagram
Use Case Diagram
Screen Diagram

Technical

- Hardware:
  - Proper display on different devices
- Software:
  - Amazon Web Services (AWS)
  - DynamoDB
  - React, Material-UI

Testing

- Interface Tests: APIs, AWS, Receive data
- Integration: Create new Organization /User, Organization-based Queries, Populate butterfly species data
- System: Usability, Cross-form compatibility, Unit tests