Project No-Kill

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Software Detailed Design

**Data Design**

Diagram

Description automatically generated

**Architecture Design**

TOP TEIR

Display customer information

Launch screen

Data base

Display information

User commands and data

Customer computer display

No Kill computer display

Customer computer

NO Kill Software/website

No Kill Computer

SECOND TEIR

Distributed totals

notes

status

Customer data

No Kill computer display

messages

User computer display

Display data

Retrieve data

No Kill database

No kill info

Customer info

Process No Kill information

Process customer information

Customer served

appointment

Approval?

Amount received

Username/password

No Kill computer

Intersect with user

Check-in

Animal info

Personal info

Username/password

Customer computer

**Interface Design**

Internal/External

Diagram

Description automatically generated

The internal interfaces primarily concern the interaction of the Themes and Plugins with the Middleware features, primarily those managing the database. External interactions are between the Word Press hosted site and local machine’s browser; these interactions will be restful in nature.

Human:

* Home

The Home page provides basic information of the organization, and menu bar linking to a Donate feature, Event calendar, Volunteer portal, Client portal. The customer’s current page will act as a model for the design

Graphical user interface, text

Description automatically generated

* Events

The events page will consist of a calendar listing food pickup and other relevant gatherings.

* Volunteer

This page will provide information regarding volunteering, as well as access to the sign in page, and volunteer sign-up page.

A screenshot of a computer

Description automatically generated with low confidence

* + Volunteers sign up provides a form, backed up to Google Sheets, for prospective volunteers enter and submit information.
  + Sign in allows Volunteer and Higher-Level users access to further features of the site.
* Arrivals

This is available to Volunteers and Higher-level users. It provides a list of customers expected to arrive on a given day, as well as information pertinent to their pickup.

Table

Description automatically generated

* Query

This Page allows Higher-level users to query by name of clients and a by date search of the food bank’s out going supply. Additionally, providing a view of the client and ability to update data.

Graphical user interface

Description automatically generated

* Clients

Provides the requirements needed to sign up and maintain assistance from the foodbank, options to sign in or sign up.

* Create User Profile

Provides a from for prospective clients to request membership.

Graphical user interface, application, Teams

Description automatically generated

* Client

Central point for client interaction with system. Allows documentation for be uploaded, basic appointment management, and the ability to view profile details.

**Procedural Design**

The new site will consist of a homepage which describes the No Kill food bank. At the top of the page will be a navigation menu which will redirect the user to other pages where they can donate to the food bank, volunteer, find out about upcoming events, and register to become a client. Links on the donation page will redirect the user to donation partners. The events page will hold a calendar of upcoming events. The volunteer page will show volunteer opportunities and a register/sign in button. Clicking on the register button will lead prospective volunteers to login page which asks for an ID and password. That information will be queried against the MySQL database, a match will send the volunteer to a schedule of volunteer opportunities. A new volunteer will be directed to a volunteer registration form, which upon submission will send the given information to the database. The client page will show information about the necessary qualifications to become a food bank client. This page will have a register/sign in button which will redirect users to a login page which asks for an ID and password. The given information will be queried against the MySQL database. A match will send the user to the client page where they can submit or update required documentation and manage upcoming appointments. No match at login will send the user to a client registration form, which upon submission will send the given information to the database.

Website diagram


Description automatically generated with low confidence

The check-in system will consist of a client queue for the day which is sent to the tablet by the administrator. When a user arrives at the food bank, they will scan the QR code at the parking site and input their name/user ID. The user ID will be checked against the client queue. An alert will be sent to the volunteer tablet, where the volunteer can acknowledge the check-in and remove the user from the queue if there is a match or inform the user that they are not on the schedule for that day.

Graphical user interface, application

Description automatically generated

**Personnel**

Amanda Schneider – Team Lead, developer

Jeffrey Becker – Developer

Jonathan Clements – Developer

**Individual Contributions**

Schneider – Procedural Design

Becker – Data Design, Interface Design

Clements – Architecture Design