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Project Submission

# Project Description

“Blair Family Gift Exchange Helper” is designed to be a mobile application used by family members participating in our annual family Christmas craft gift exchange. This application allows a user to set up a local profile (or load a previously saved profile), save a setting of which calendar year they are working on (normally current year, but allows others in case participant is behind from a previous year. The user can also select from a list of other participants to record their assigned recipient. (In the future, I envision the assigned recipient being a feature managed through an administrative function and loaded from a central database.)

The mobile application is designed to help users search for craft ideas through other users saved Pinterest boards (pulled from the 3rd party Pinterest API) and to save ideas as favorites or set an item as the planned gift. Ideas marked as favorites or planned gift are saved to local storage, so that the user can use this application to help them fin ideas and sort through their ideas for their craft. This will allow some of our older users access to Pinterest ideas without needing to register for and learn another application. It also helps to remind our participants on when they

The application was designed to have a simple and clear interface without too many distractions so that the interface will not be too hard for a wide variety of ages to interact with. The application is designed with a responsive menu design that presents a standard horizontal menu on larger screens which auto-transitions into a standard hamburger menu on smaller devices. This general design of the navigation should be familiar to most users.

# CSS3 Features

CSS3 is used throughout in various ways to try to help draw the users attention to issues, no information, etc.

## CSS Transitions Highlights

Transitions are used pretty extensively throughout the application to make changes more subtle and less jarring to the user. A few key highlights are:

1. Revealing the hidden divs to display recipient preferred subjects an colors when the recipient is selected on the Recipient page.

.hiddenDiv {

max-height:0px;

opacity:0;

width: 30rem;

transition: all 2s ease-in-out;

}

.revealDiv {

max-height:200px;

opacity:1;

}

1. Buttons use transitions on all properties in order to allow subtle changes as the user interacts with them, including a slight glow on hover using box-shadow.

.btn5:hover {

box-shadow: 0 5px rgba(0,0,0,0.35), 0 0 20px #839D56;

}

1. Inputs have transitions applied to all properties. This is used to apply a highlight “glow” effect on the border when the inputs have focus. This is also used to transition a red “glow” when the input has an error.

input, select, textarea {

border: 1px solid transparent;

transition: all .5s ease-out !important;

-webkit-transition: all .5s ease-out;

-moz-transition: all .5s ease-out;

-o-transition: all .5s ease-out;

}

input:focus, select:focus, textarea:focus {

outline: none;

border-color: #9edeed;

box-shadow: 0 0 2px #9edeed, 0 0 5px #9edeed, 0 0 10px #9edeed;

}

## CSS Transforms Highlights

Transforms were used extensively throughout the CSS3 animations that were used. A few other examples are:

## CSS Animations Highlights

1. Jello – this animation creates a sort of jello-ish horizontal jiggle effect and is used on buttons in the application to draw attention to the next action to perform.
   * Index page on the Open Profile and New Profile buttons – Open Profile jiggles when the username matches a record in local storage; New Profile jiggles when the username entry does not exist in local storage and would need to be added.

.jello-horizontal {

-webkit-animation: jello-horizontal 0.9s both;

animation: jello-horizontal 0.9s both;

}

@keyframes jello-horizontal {

0% {

-webkit-transform: scale3d(1, 1, 1);

transform: scale3d(1, 1, 1);

}

30% {

-webkit-transform: scale3d(1.25, 0.75, 1);

transform: scale3d(1.25, 0.75, 1);

}

40% {

-webkit-transform: scale3d(0.75, 1.25, 1);

transform: scale3d(0.75, 1.25, 1);

}

50% {

-webkit-transform: scale3d(1.15, 0.85, 1);

transform: scale3d(1.15, 0.85, 1);

}

65% {

-webkit-transform: scale3d(0.95, 1.05, 1);

transform: scale3d(0.95, 1.05, 1);

}

75% {

-webkit-transform: scale3d(1.05, 0.95, 1);

transform: scale3d(1.05, 0.95, 1);

}

100% {

-webkit-transform: scale3d(1, 1, 1);

transform: scale3d(1, 1, 1);

}

}

1. Move up – this animation is

@keyframes moveUp {

0% {

transform: translateY(50%);

opacity: 0;

}

100% {

opacity: 1;

transform: translateY(0);

}

}

1. Error-vibrate – this animation is applied to text fields to shake them when they switch to an error state. Used:
   * Index page on the username field when left blank.

.error-vibrate {

-webkit-animation: error-vibrate 0.3s linear 6 both;

animation: error-vibrate 0.3s linear 6 both;

outline: none;

border-color: red;

box-shadow: 0 0 10px red;

}

@keyframes error-vibrate {

0% {

-webkit-transform: translate(0);

transform: translate(0);

}

20% {

-webkit-transform: translate(-2px, 2px);

transform: translate(-2px, 2px);

}

40% {

-webkit-transform: translate(-2px, -2px);

transform: translate(-2px, -2px);

}

60% {

-webkit-transform: translate(2px, 2px);

transform: translate(2px, 2px);

}

80% {

-webkit-transform: translate(2px, -2px);

transform: translate(2px, -2px);

}

100% {

-webkit-transform: translate(0);

transform: translate(0);

}

}

1. Shake – this animation is applied to buttons to shake them when they switch to an error state. Used:
   * Index page on the Open Profile and New Profile buttons when there are errors.
   * Recipient page on the Save Profile button

.btnerror {

-webkit-animation: shake 0.5s;

-moz-animation: shake 0.5s;

animation: shake 0.5s;

}

@keyframes shake {

0%, 100% {transform: translateX(0);}

10%, 30%, 50%, 70%, 90% {transform: translateX(-10px);}

20%, 40%, 60%, 80% {transform: translateX(10px);}

}

1. ScaleFromUp – This animation is used to animate an error text into the button display when the error class is applied to the button. Used:
   * Index page on the Open Profile and New Profile buttons when there are errors.
   * Recipient page on the Save Profile button.

.btnerror:after {

content: "Error!";

-webkit-animation: scaleFromUp 0.5s;

-moz-animation: scaleFromUp 0.5s;

animation: scaleFromUp 0.5s;

}

@keyframes scaleFromUp {

0% {

transform: scale(0);

opacity: 0;

}

100% {

opacity: 1;

transform: scale(1);

}

}

1. Tracking-in-expand – used to introduce a validation message on a form field. Used:
   * Index page to show a descriptive error message if the user attempts to add a new profile for a username that already exists in local storage.

.tracking-in-expand {

-webkit-animation: tracking-in-expand 0.7s cubic-bezier(0.215, 0.610, 0.355, 1.000) both;

animation: tracking-in-expand 0.7s cubic-bezier(0.215, 0.610, 0.355, 1.000) both;

}

@keyframes tracking-in-expand {

0% {

letter-spacing: -0.5em;

opacity: 0;

}

40% {

opacity: 0.6;

}

100% {

opacity: 1;

}

}

1. Tracking-out-contract– used to remove a validation message on a form field. Used:
   * Index page to remove the descriptive error message if the user attempts to add a new profile for a username that already exists in local storage after its been shown when the username field gains focus again.

.tracking-out-contract {

-webkit-animation: tracking-out-contract 0.7s cubic-bezier(0.550, 0.085, 0.680, 0.530) both;

animation: tracking-out-contract 0.7s cubic-bezier(0.550, 0.085, 0.680, 0.530) both;

}

@keyframes tracking-out-contract {

0% {

opacity: 1;

}

50% {

opacity: 1;

}

100% {

letter-spacing: -0.5em;

opacity: 0;

}

}

1. Heartbeat – Animation applied to Days ‘til shipping due on Status page when it reaches between 1 and 15 days due (calculated based on difference between today’s date and 11/20 of the gift year.)

.heartbeat {

-webkit-animation: heartbeat 1.5s ease-in-out infinite both;

animation: heartbeat 1.5s ease-in-out infinite both;

}

@keyframes heartbeat {

from {

-webkit-transform: scale(1);

transform: scale(1);

-webkit-transform-origin: center center;

transform-origin: center center;

-webkit-animation-timing-function: ease-out;

animation-timing-function: ease-out;

}

10% {

-webkit-transform: scale(0.91);

transform: scale(0.91);

-webkit-animation-timing-function: ease-in;

animation-timing-function: ease-in;

}

17% {

-webkit-transform: scale(0.98);

transform: scale(0.98);

-webkit-animation-timing-function: ease-out;

animation-timing-function: ease-out;

}

33% {

-webkit-transform: scale(0.87);

transform: scale(0.87);

-webkit-animation-timing-function: ease-in;

animation-timing-function: ease-in;

}

45% {

-webkit-transform: scale(1.5);

transform: scale(1.5);

-webkit-animation-timing-function: ease-out;

animation-timing-function: ease-out;

}

}

1. Ping -- Animation applied to Days ‘til shipping due on Status page when the difference between today’s date and 11/20 of the gift year are passed.

.ping {

-webkit-animation: ping 0.8s ease-in-out infinite both;

animation: ping 0.8s ease-in-out infinite both;

}

@keyframes ping {

0% {

-webkit-transform: scale(0.2);

transform: scale(0.2);

opacity: 1;

}

80% {

-webkit-transform: scale(1.2);

transform: scale(1.2);

opacity: 0.3;

}

100% {

-webkit-transform: scale(2.2);

transform: scale(2.2);

opacity: 0;

}

}

# Other Code Topics