

# Professional Abilities Association of America

**CECS 493A:  
Database Web Application Project I**

# The Development Team

— — —

Anne Kobata

Errold Tumaque

Lusemaka Alesana

Michael Perez

Michael Valenzuela

Yutaro Mori

# Overview: Background

— — —

- ❖ Mary Zendejas founder of the PAA of A
- ❖ Professional Abilities Association of America
  - Provide ongoing support to people with disabilities
  - Assist people with disabilities join the workforce
  - Provide mentoring for others

# Goals

- ❖ Create a professional community for people with disabilities
- ❖ Provide a job market
- ❖ Advertise networking events
- ❖ Promote the PAA of A



# What's our project?

— — —

- ❖ The Professional Abilities Association of America Website
  - [paaofa.org](http://paaofa.org)
  - Created through WordPress
- ❖ Functionalities
  - Calendar
  - Voice Reader
  - Forum
  - Donations
  - Social Media

# Development

---

## ❖ Process

- Requirements Specification
- Design Specification
- Test Specification
- Implementation
- User/Developer Specification



# GUIDELINES

# Requirements Specification



How the customer explained it



How the program leader understood it



How the engineer designed it



How the programmer wrote it



How the sales executive described it



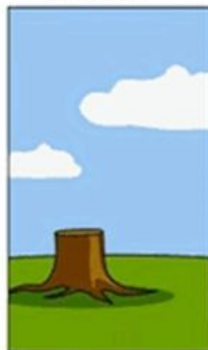
How the program was documented



What operations installed



How the customer was billed



How the helpdesk supported it



What the customer really needed



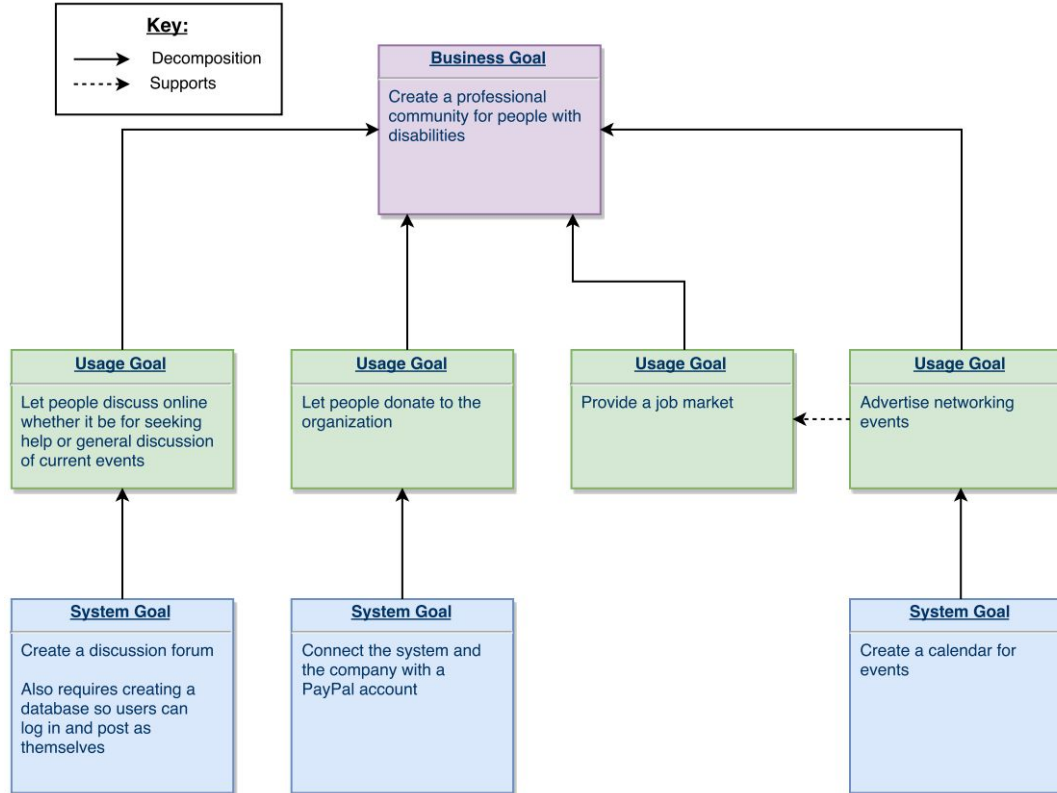
# Requirements Specification: What do we want?

---

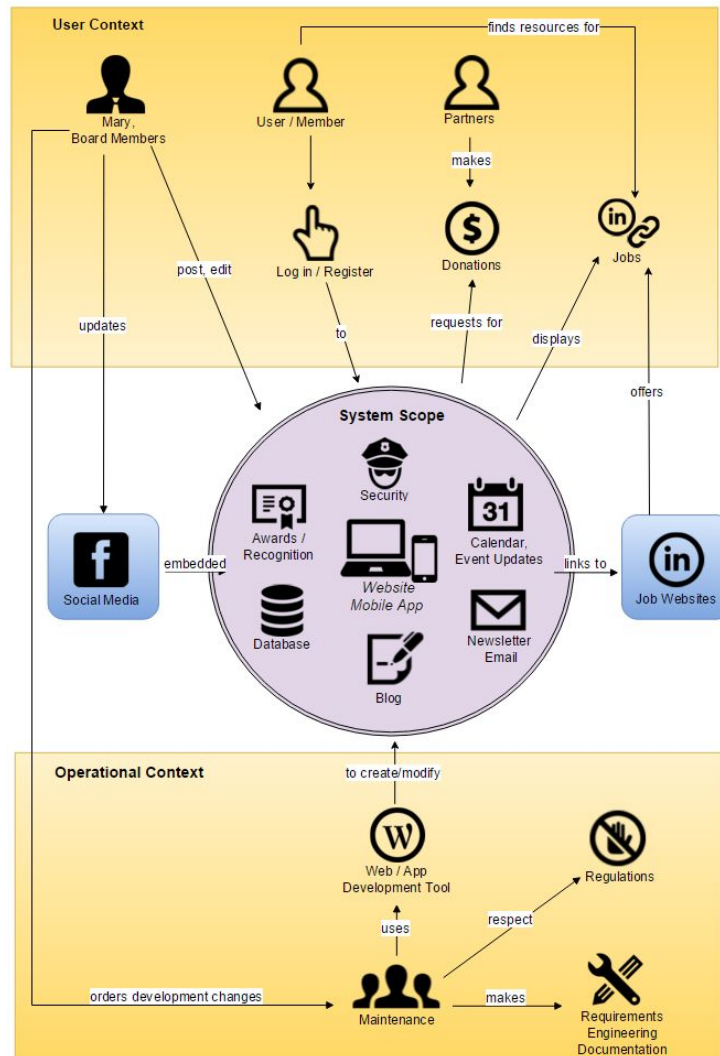
- ❖ Official document to recognize all requirements
  - For the stakeholders as well as the developers
- ❖ Requires multiple meetings with the stakeholder to determine and finalize:
  - List of stakeholders
  - Goals of the project
  - Constraints
  - Quality requirements
  - Possible use cases
- ❖ Requirements should be written in this doc upheld



# Business Goal Model



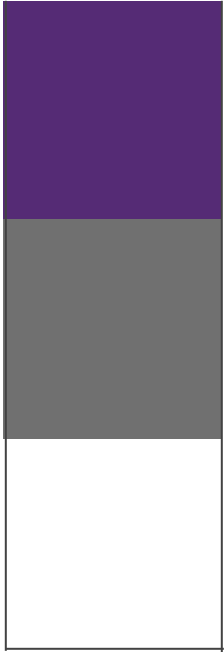
# System Vision



# Design

# Design: How will it look?

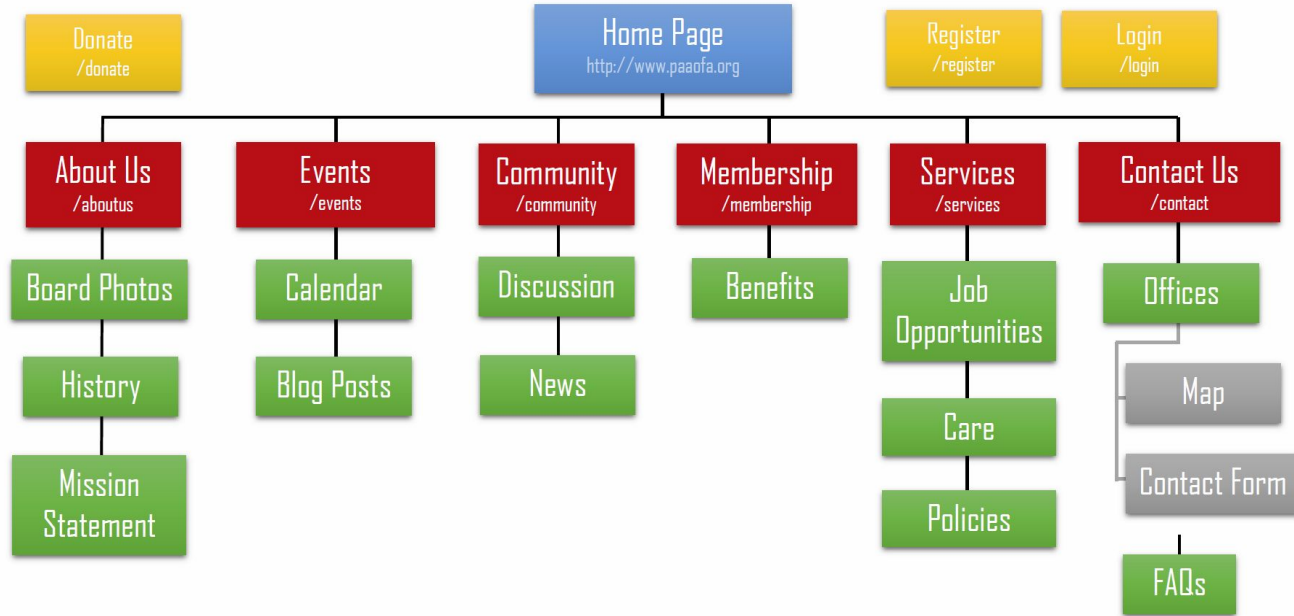
— — —



- ❖ Professional
- ❖ Easy to Navigate
- ❖ Appealing
- ❖ Organized
- ❖ Efficient

# Design: Sitemap

— — —



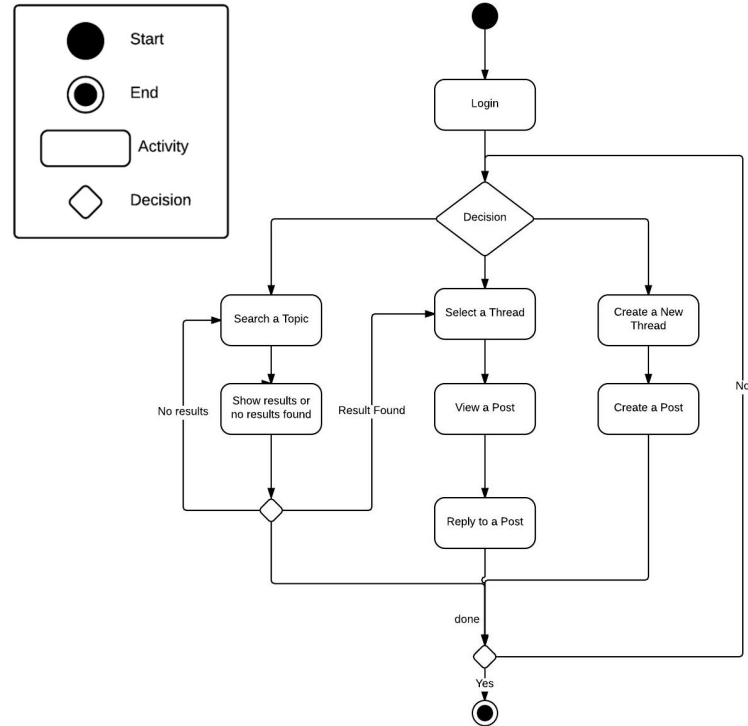
# Design: Sitemap Revised

— — —



# Design

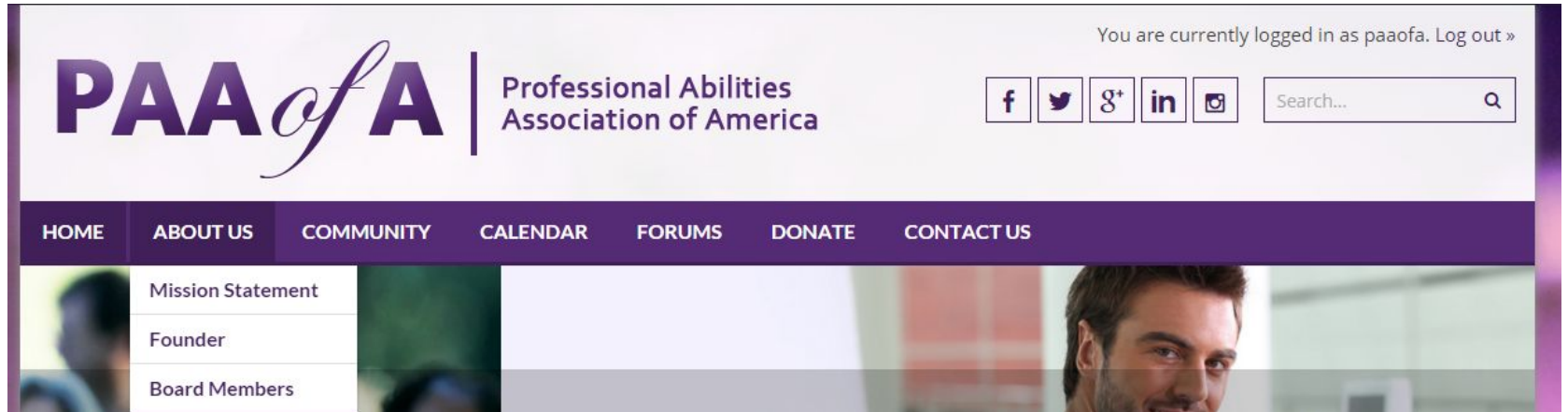
— — —





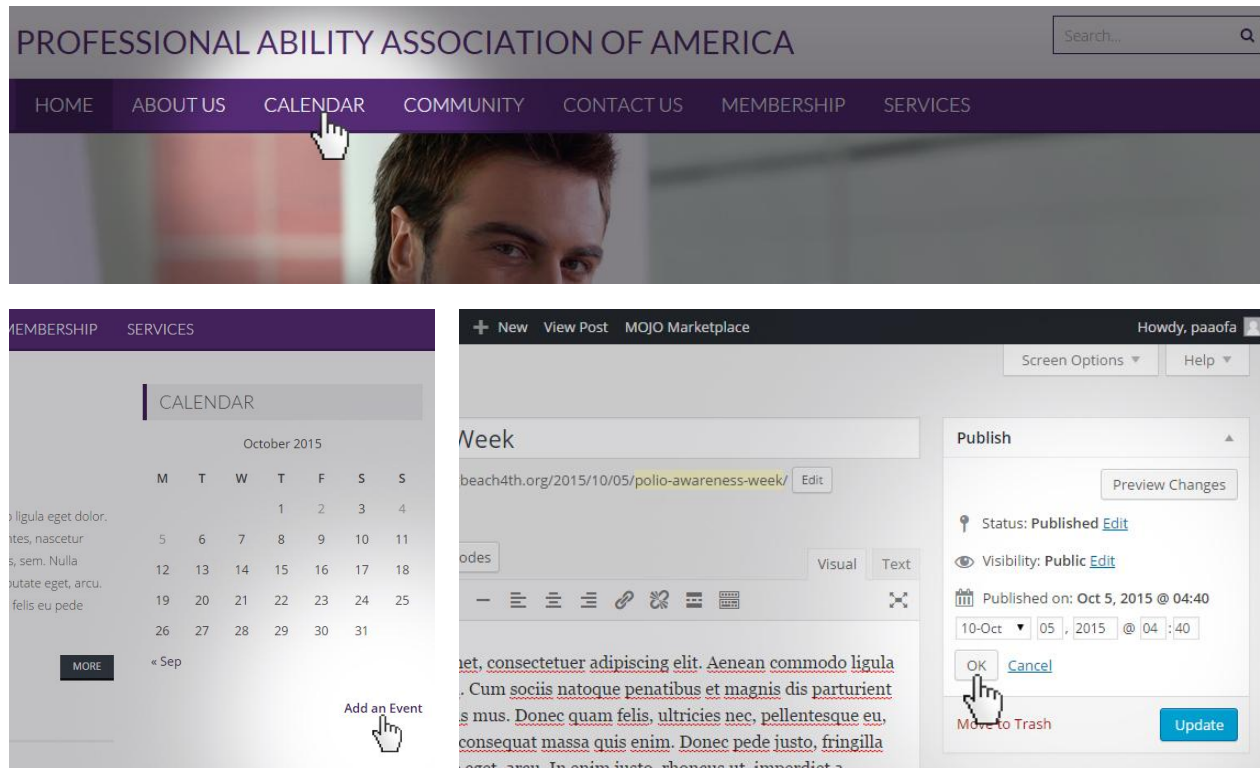
# Design: Horizontal Prototype

— — —



# Design: Vertical Prototype

## ❖ Adding a Calendar Event



# Test Specification

# Test Specification: Does it do everything it's supposed to?

— — —

- ❖ Written before development (Implementation)
- ❖ It is a series of test cases to test different website features described in the **Requirements Specification**
- ❖ **ISO 25010** standard used as guideline
  - Product quality model

# Test Specification: ISO 25010 Standard

— — —



Product Quality Model Figure

# Test Specification: How we designed

— — —

<b>ID</b>	TEST 4
<b>Quality Characteristic</b>	Usability
<b>Description</b>	The test will be performed on PAA of A website by users who understands the basic knowledge of web browsing but are not involved in the development of PAA of A website. Purpose of this is to test the site's usability, that is, how easily an user can use the website for their needs.
<b>Requirements Reference</b>	Usage Model
<b>Testing Level</b>	Acceptance

# Test Specification: How we designed

— — —

Steps	<p>Test will be performed for three different use case scenarios described in the Requirements Specification.</p> <ol style="list-style-type: none"><li>1. User is given a specific use case scenario to perform</li><li>2. User is navigated to PAA of A website's top page</li><li>3. User walks through the website to accomplish their specific use case scenario inside the website without any assistance</li><li>4. The test will be completed when the user finishes doing what they have to successfully or is totally lost and requires help.</li></ol>
Expected Outcome	User successfully performs the given use case scenario

# Test Specification: How we designed

— — —

Actual Outcome	The user testing the usability managed to complete the task without any struggle navigating through the website.
Pass / Fail	Pass
Defect	None



# Implementation

# Implementation: How we put it together

— — —

- ❖ Our guide for development:
  - Requirement Specification
  - Design
  - Test Specification
- ❖ Implemented to satisfy the needs listed in specification

# Implementation: What we used to develop our website

---

## WordPress.com

- ❖ For website development
- ❖ All works are done through WordPress
  - create/edit pages
  - features like donate

## GoDaddy

- ❖ For Domain and Hosting
- ❖ All files associated with our website is stored here

# User / Developer Specification

# Documentation: Keeping track of what we've done

— — —

- Documentation is a key step in the software engineering and developing process.
- Documentation helps both developers and users understand features of the project.
- Step-by-step help for specific tasks.

# User Documentation

— — —

- Describes the functionality of the PAA of A website from the user perspective.
- Give users explanations on how features work and steps to take.
- Explains common mistakes taken and ways to fix them.

# User Documentation – Example

## Log in to your account

After you registered as a member of PAA of A, you can log in to your account by clicking on “Log In” located right next to the “Register Here” option at the top right corner of the website.



When the “Log In” option is clicked, a log in form just like in the image at the right will pop up. Fill in the user name and password you have provided when you registered and click on the LOG IN button at the bottom to proceed. If the log in was successful, it will lead you back to the first page.

If the log in was unsuccessful, it will show an error message like below.

### Login

ERROR: All fields are required.

A screenshot of a login form titled 'Login'. It contains two input fields: 'Username' and 'Password'. Below the password field is a checkbox labeled 'Remember Me'. At the bottom of the form are two buttons: 'LOG IN' and 'CANCEL'. Below the buttons is a link that says 'Lost your password?'. The form is enclosed in a light gray border.

# Developer Documentation

— — —

- Documentation for the developers and maintainers of the website
- Since our group will not be maintaining the website, we have created in-depth documentation for some features of the website and how to edit them.
- Since Wordpress was used, the majority of the documentation is geared toward use of Wordpress tools.

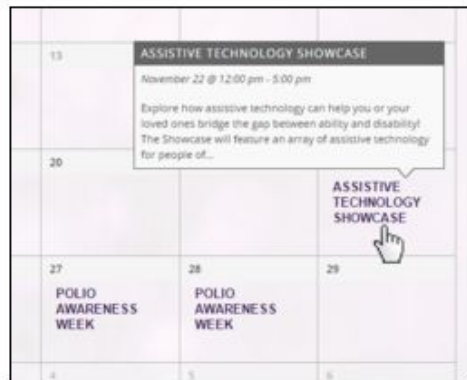


# Developer Documentation Example

## Editing an Event in the Calendar

1. Making corrections or adding additional information to an event is easy. While viewing the Calendar, simply click on the event that needs to be edited.

The event will open, showing all the details of the event.



2. In the admin bar at the top of the page, click 'Edit Event'. (Again, you must be an Administrator to view the admin bar.)



## Developer Documentation Example - 2

3. Make necessary changes to the event post and click 'Update' on the Publish pane on the right of the screen when done.

Edit Event

Add New

ASSISTIVE TECHNOLOGY SHOWCASE

Permalink: <http://www.pasofa.org/event/assistive-technology-showcase/>
Edit
View Event
Get Shortlink

Add Media

VisualText

B I T L U A P S M X

Paragraph

Explore how assistive technology can help you or your loved ones bridge the gap between ability and disability! The Showcase will feature an array of assistive technology for people of all disabilities to experience hands-on. In addition, the staff will offer suggestions and share their extensive knowledge to help determine the most appropriate technology match for your abilities and situations. Celebrating 25 years of empowering people to reach their full potential, Easter Seals Massachusetts' pioneering Assistive Technology program ensures that children and adults

Email Users

[Notify Users About this Post](#)

Publish

Preview Changes

Status: Published [Edit](#)

Visibility: Public [Edit](#)

Published on: Oct 22, 2015 @ 08:35 [Edit](#)

Move to Trash

Update

Tags

[Add](#)

Separate tags with commas

[Choose from the most used tags](#)

**LIVE DEMO**

**[www.paaofa.org](http://www.paaofa.org)**

# Conclusion

# Future Enhancements

— — —

## Handheld Applications

- iPhone App
- Android App

## Increase Web Traffic / User Database

- Social Media
- Advertisements
- Event postings

**Any Questions?**