

Max Harrell  
Alex Hom  
Denise Nguyen  
Cody R. Solley  
Victor Zavala

Fall 2017

{s.dot} Web Pages Report  
< SCRUM Developer Online Tracking / >  
CIS 444 Proposal and Project Design



# Abstract

Our team will be developing a web application that provides SCRUM development organization for software developing teams.

## ***Problem Statement***

During SCRUM development cycle (a specific class example would be CS 441), there seemed to be a lack of accessible automation tools that would allow for software team communication, task tracking and bug tracking. Most groups default to using a mix of tools and manual documentation methods, such as Excel or Access, in association with GitHub and email communication or outside forums.

We would like to implement a website, {s.dot} (SCRUM Developer Online Tracker) that would allow for this type of data to be collected centrally, allowing for easier documentation, centralization and availability, all the while reducing the need for multiple outside tools.

## ***Target Users***

Computer sciences students and software development teams. CS 441 class where they are using SCRUM development techniques to make their software.

## ***Users Functions***

{s.dot} would allow the following potential user functions:

- Bug tracking
- History of project task that are currently in progress, being worked on, and completion of task.
- Priority and assignment of task defined by user.
- Tracking of current version of project and side branches of repository for easy view. Also includes description of side branch and purpose.
- Resource tracking for project; for example external links, books, documentation and its location.
- Forum to provide communication between project members for easy communication.
- Manager tracking employees tasks and meeting tracker.





## Table of contents

<b>Abstract</b>	<b>2</b>
Problem Statement	2
Target Users	2
Users Functions	2
<b>Table of contents</b>	<b>3</b>
<b>Page Flow and Wireframe Diagram</b>	<b>4</b>
Diagram: Wireframes of web flow of web page interactions	4
<b>Website Structure</b>	<b>5</b>
<b>Page Usecase and Web Implementation</b>	<b>5</b>
Page: Sign Up	5
Page: Log In	6
Page: Choose Project	7
Page: Create Project	8
Page: Project Hub	9
Page: Project Preferences	10
Page: Tasktracker	11
Page: Bug Tracker	12
Page: Dev Forum	13
Page: User Preferences	14
<b>Web Browser Mobile Views</b>	<b>15</b>
<b>Project Plan</b>	<b>16</b>
Diagram: v1 Gantt Chart for Web Development	16
<b>Trello</b>	<b>17</b>



# Page Flow and Wireframe Diagram

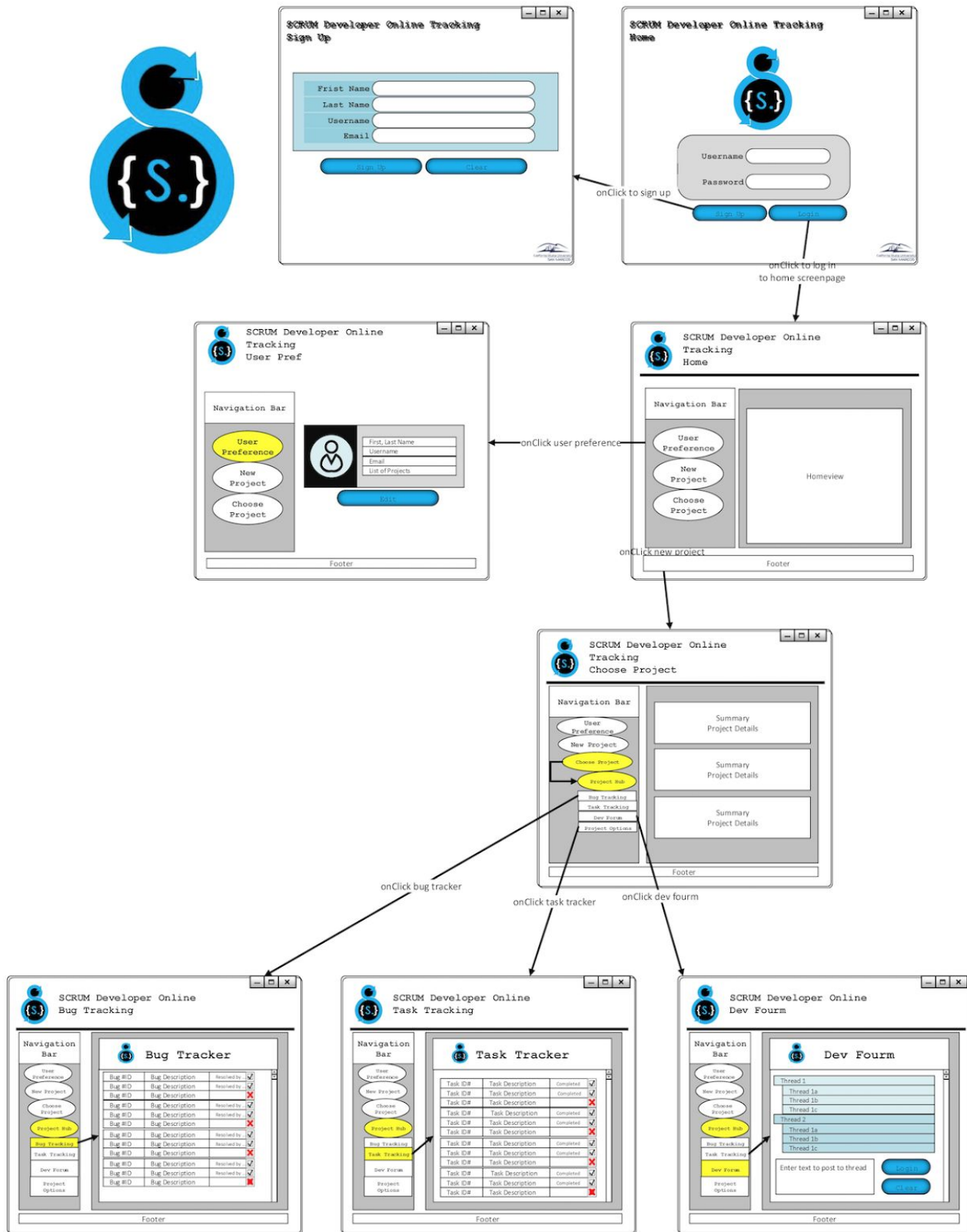


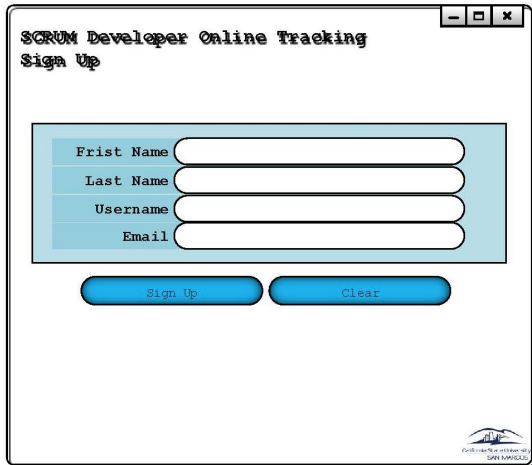
Diagram: Wireframes of web flow of web page interactions



# Website Structure

## Page Usecase and Web Implementation

{s.dot}- 10 pages



### Page: Sign Up

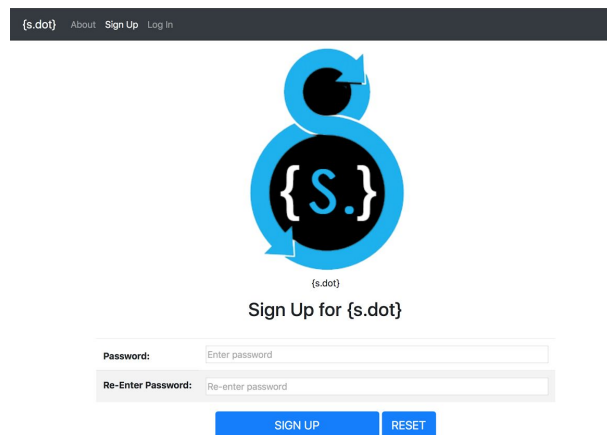
#### Flow of events

- Form for first name, last name, a username field and password creation field.
- Submit generates a unique user ID number as the key to associate this information, as well as creates a new SQL row to the Users table then takes back to Login page.

#### Special Requirements

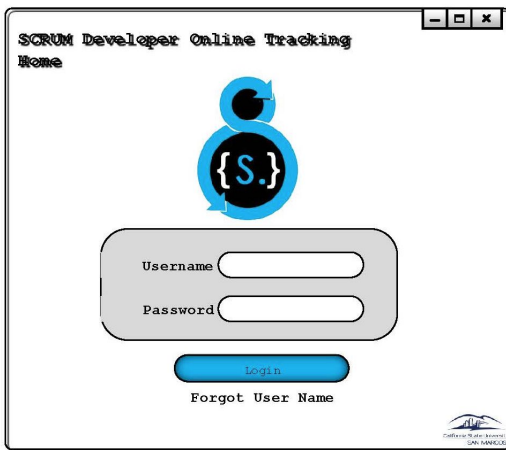
Take no longer then 30 secs to add new user.

v1: signup.html still needs to be fixed in  
positioning  
This is with sdot.css stylesheet



v1: With sdot.css styling.  
This is without sdot.css stylesheet.





*Log in wireframe.*

### **Page: Log In**

#### **Flow of events**

- Login form (username / password) will submit query to user table to match password to allow login, otherwise deny.
- Create new account link will take to a new page.

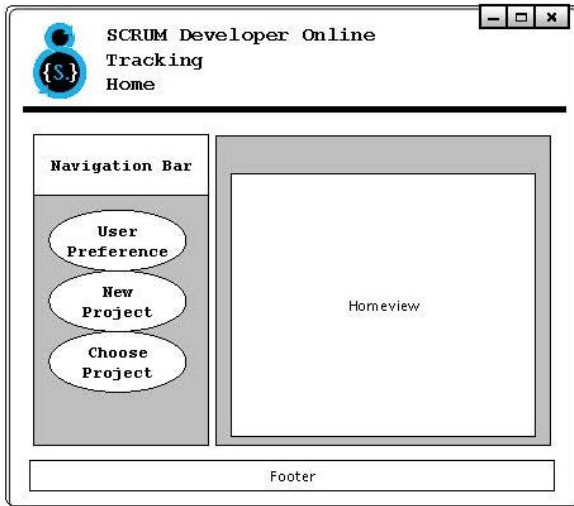
#### **Special Requirements**

Take no longer then 30 secs to add new user.

*v1: Still needs a javascript page.  
Also needs more fields for user to sign up.*

*v2: Store user input into database.*





*Homepage wireframe.*

## **Page: Choose Project**

*Note: this is the homepage after login*

### **Flow of events**

- Display list of projects the user has access to, choosing a project link will load the Project Hub for that unique project ID.

### **Navigation bar display**

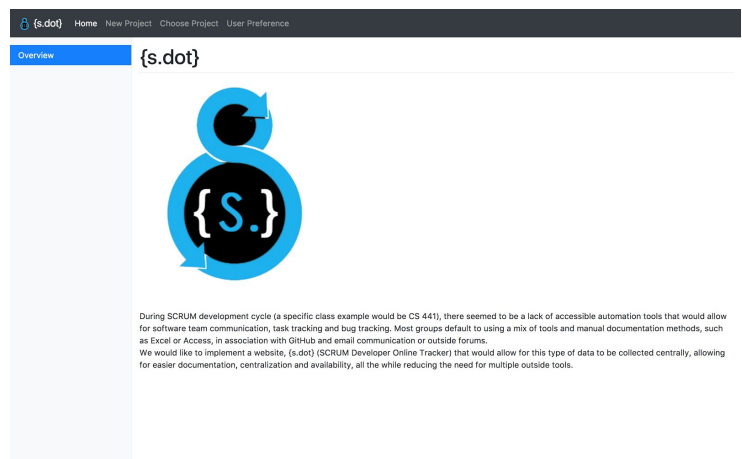
User Preferences, Choose Project, Create Project

### **Navigation Bar Interactions**

Choosing a link will take you to that item's separate page, if the link for the current page is chosen, it will reload that page to the default state.

### **Special Requirements**

Take no longer then 30 secs to load select a project.



*Homepage webpage.*

*v1: Very basic.*

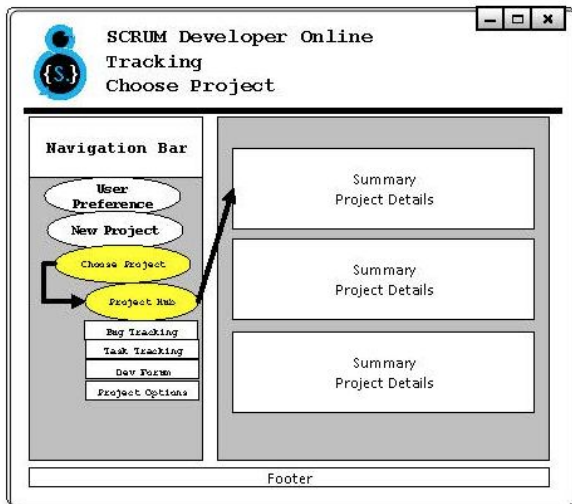
*v2: Can be made more fun!*

*Tailored to users.*

*Fix positions of main body content.*

*Implement web images.*





*New project page wireframe.*

## ***Page: Create Project***

### ***Flow of events***

- Display a form that allows for a project title, summary area and an area to add authorized users (by username).
- Submit will generate a unique project number and create a new SQL row in the Project table then takes you back to the Choose Project page.

### ***Navigation bar display***

User Preferences, Choose Project, Create Project

### ***Navigation Bar Interactions***

Choosing a link will take you to that item's separate page, if the link for the current page is chosen, it will reload that page to the default state.

### ***Special Requirements***

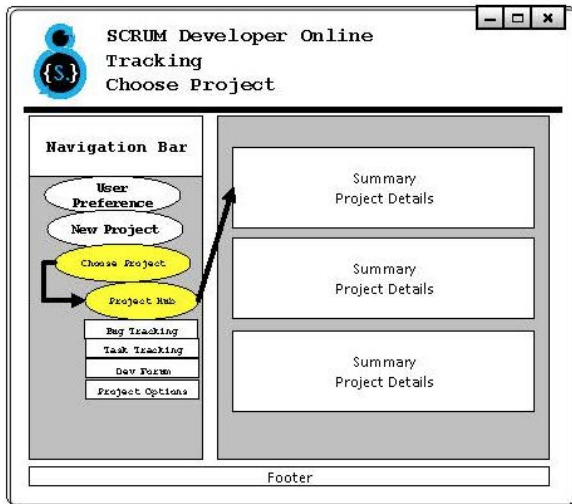
Take no longer then 30 secs to load selected input.

*New project page webpage.  
v1: Has javascript check.*

*v2: Implement web design.*







*Project Hub wireframe.*

## **Page: Project Hub**

### **Flow of events**

- Displays the title and summary of the project at the top with graphical links to the three tools (Task Tracker, Bug Tracker, Dev Forum) as well as a graphical link the the Project Preferences.
- Interacting with the links will take you to the appropriate page.

### **Navigation bar display**

User Preferences, Choose Project, Create Project, Project Hub, Project Preferences, Task Tracker, Bug Tracker, Dev Forum

### **Navigation Bar Interactions**

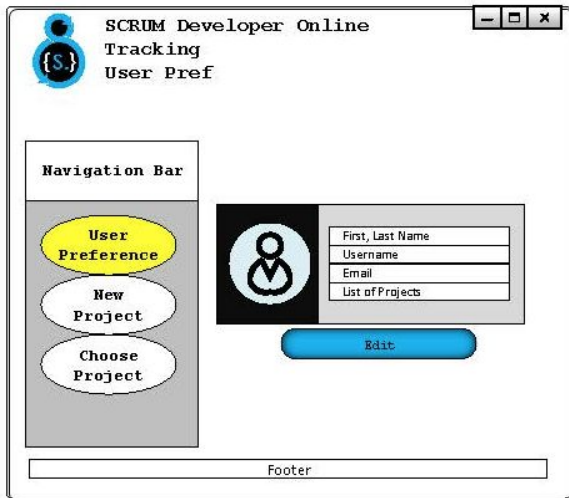
Choosing a link will take you to that item's separate page, if the link for the current page is chosen, it will reload that page to the default state.

### **Special Requirements**

Take no longer then 30 secs to load selected input.

*Project hub page webpage.  
v1: Has javascript check.*

*v2: Implement web design.  
Reading user input of task.*



*User preference wireframe.*

## **Page: Project Preferences**

### **Flow of events**

- Display the same information as Create Project form, instead a submit will send an update to the existing SQL row for that unique ID with the updated information if any.
- Cancel button will take you back to Project Hub page.
- A delete project button will remove the unique project row from SQL and take you back to Choose Project page.

### **Navigation bar display**

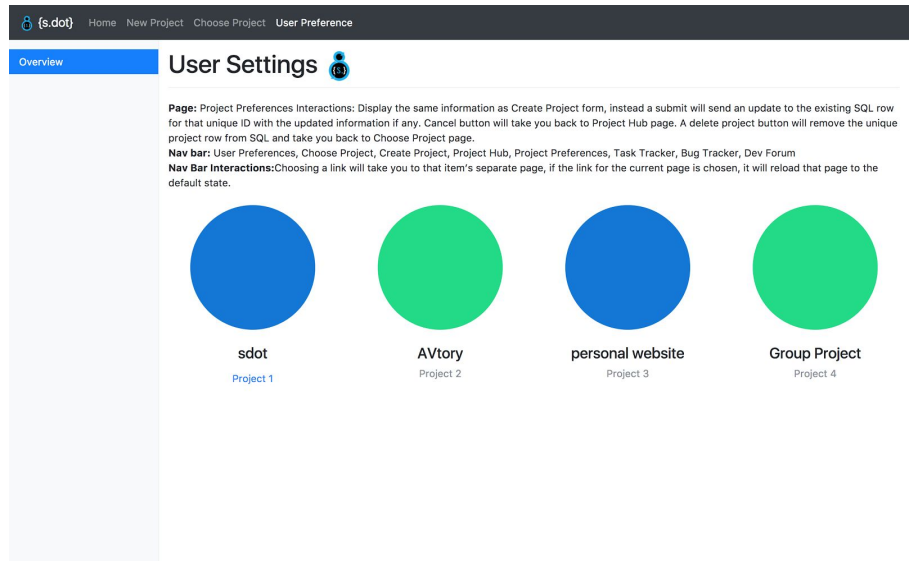
User Preferences, Choose Project, Create Project, Project Hub, Project Preferences, Task Tracker, Bug Tracker, Dev Forum

### **Navigation Bar Interactions**

Choosing a link will take you to that item's separate page, if the link for the current page is chosen, it will reload that page to the default state.

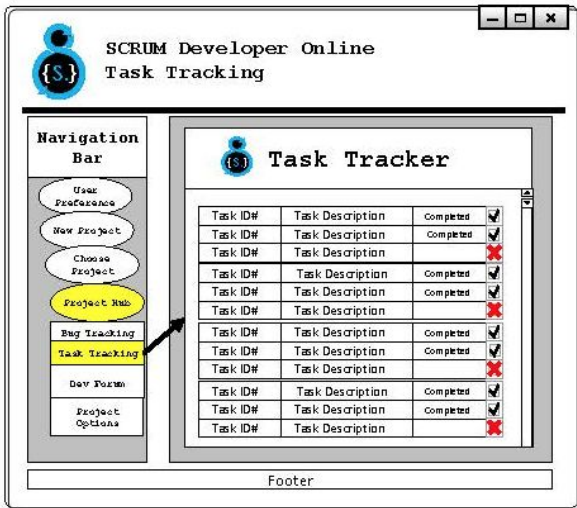
### **Special Requirements**

Take no longer then 30 secs to load selected input.



*User preference page webpage.  
v1: Mock data.*

*v2: Implement web design.  
Reading user input of task.  
Know users projects.*



*Task tracker wireframe.*

## Page: Tasktracker

### Flow of events

- Displays the title of the project at the top with graphical link to project hub at the top, then displays the Task Tracker table, loading all existing rows of data with a query to the Task table with the appropriate project ID.
- All rows will allow for updates / edits with a update (submit) button that will send a SQL update for the appropriate row of data in the Task table.
- Final row will be a blank row that allows for a new row of data to the Task table, upon submit a new SQL row will be created and the page will either dynamically add a new row at the bottom for another new submittal or reload the page to display the page correctly.

### Navigation bar display

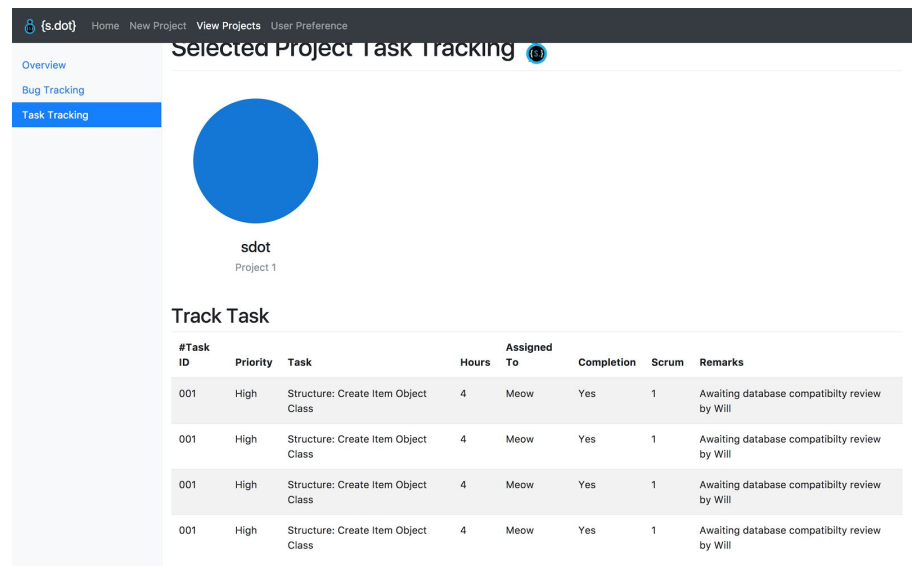
User Preferences, Choose Project, Create Project, Project Hub, Project Preferences, Task Tracker, Bug Tracker, Dev Forum

### Navigation Bar Interactions

Choosing a link will take you to that item's separate page, if the link for the current page is chosen, it will reload that page to the default state.

### Special Requirements

Take no longer then 30 secs to add a new task.



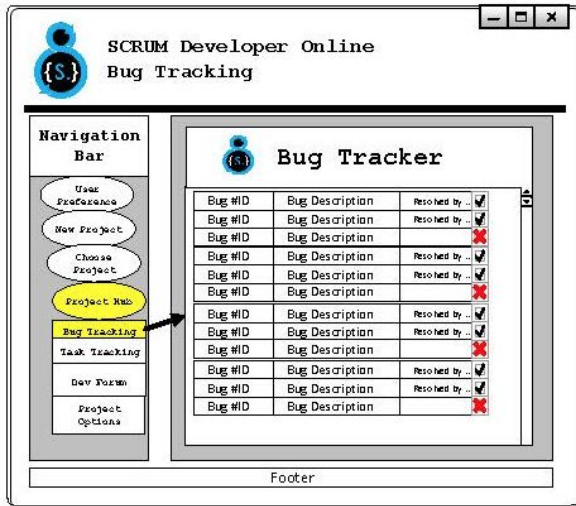
*Task tracker webpage.*

*v1: Mock data.*

*v2: Implement web design.*

*Reading user input of task.*

*Know users projects.*



*Bug tracker wireframe.*

## Page: Bug Tracker

### Flow of events

- Displays the title of the project at the top with graphical link to project hub at the top, then displays the Bug Tracker table, loading all existing rows of data with a query to the Bug table with the appropriate project ID.
- All rows will allow for updates / edits with a update (submit) button that will send a SQL update for the appropriate row of data in the Bug table.
- Final row will be a blank row that allows for a new row of data to the Bug table, upon submit a new SQL row will be created and the page will either dynamically add a new row at the bottom for another new submittal or reload the page to display the page correctly.

### Navigation bar display

User Preferences, Choose Project, Create Project, Project Hub, Project Preferences, Task Tracker, Bug Tracker, Dev Forum

### Navigation Bar Interactions

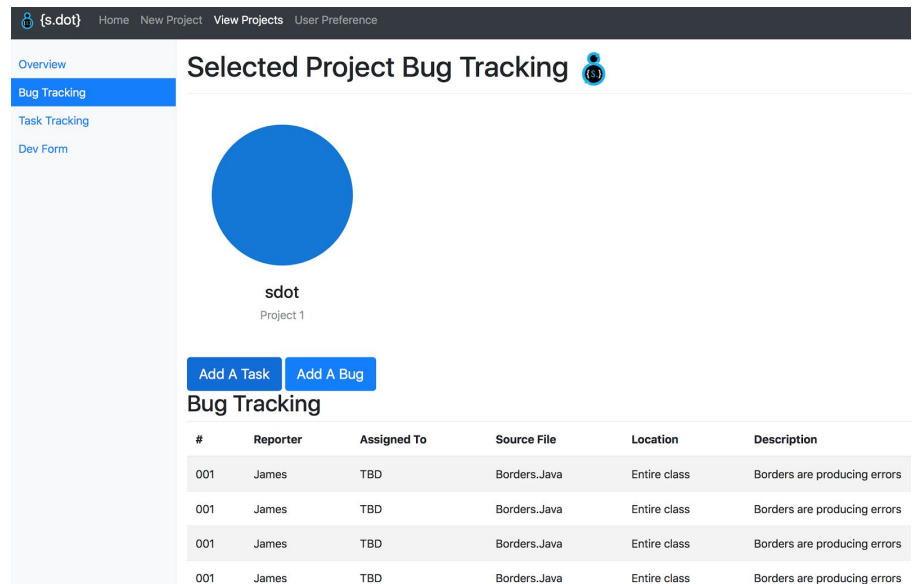
Choosing a link will take you to that item's separate page, if the link for the current page is chosen, it will reload that page to the default state.

### Special Requirements

Take no longer then 30 secs to add a new bug.

*Bug tracker webpage.*

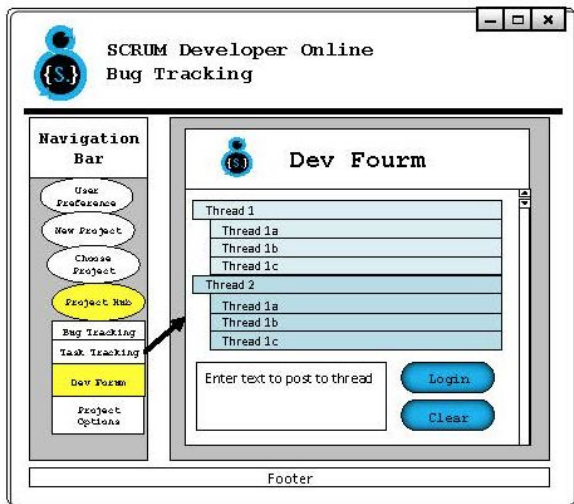
*v1: Mock data.*



*v2: Implement web design.*

*Reading user input of bugs.*

*Know users projects.*



*Dev forum wireframe.*

## Page: Dev Forum

### Flow of events

- Displays the title of the project at the top with graphical link to project hub at the top, then displays the forum thread for the unique project ID, using a SQL query to the Forum table to load all previous replies in descending order from the original post.

- A blank reply field will be available at the bottom to add a new post to the thread, upon submit this bulk data will be added as a new SQL row to the Forum table.

### Navigation bar display

User Preferences, Choose Project, Create Project, Project Hub, Project Preferences, Task Tracker, Bug Tracker, Dev Forum

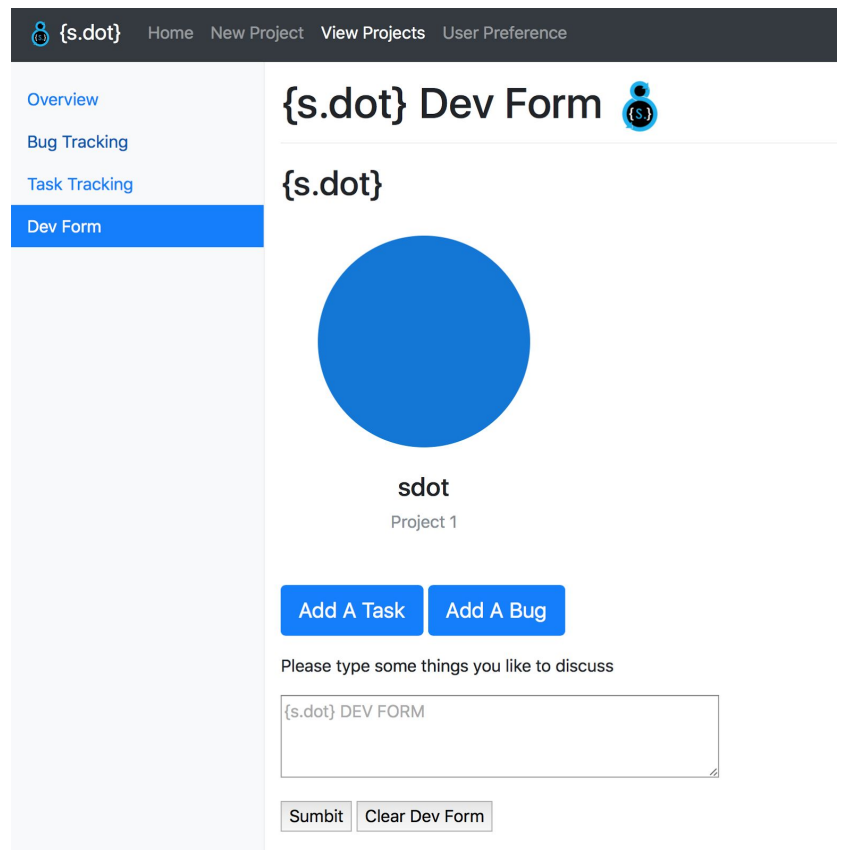
### Navigation Bar Interactions

Choosing a link will take you to that item's separate page, if the link for the current page is chosen, it will reload that page to the default state.

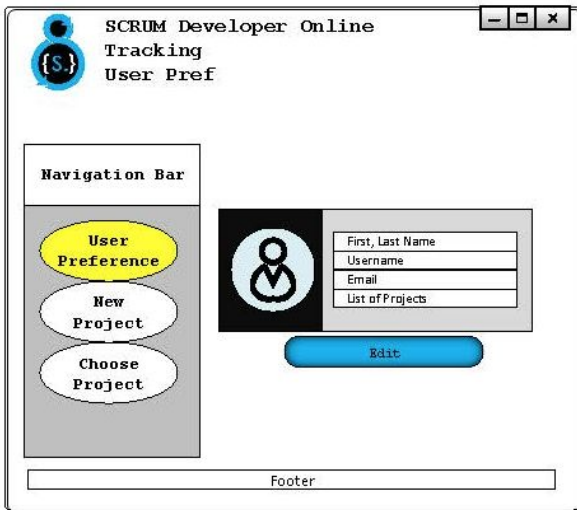
### Special Requirements

Take no longer then 30 secs to add a new form.

*v1: Dev Form web design.  
Know users projects to add to thread.*



*v2: Reading user input of task.  
Know users projects.*



*User preference wireframe.*

*User preference  
v1: Mock data  
{s.dot} example*

## **Page: User Preferences**

### **Flow of events**

- Display the same information as New User form, instead a submit will send an update to the existing SQL row for that unique ID with the updated information if any.
- Cancel button will take you back to Choose Project page. A delete account button will remove the unique user row from SQL and take you back to Login page.

### **Navigation bar display**

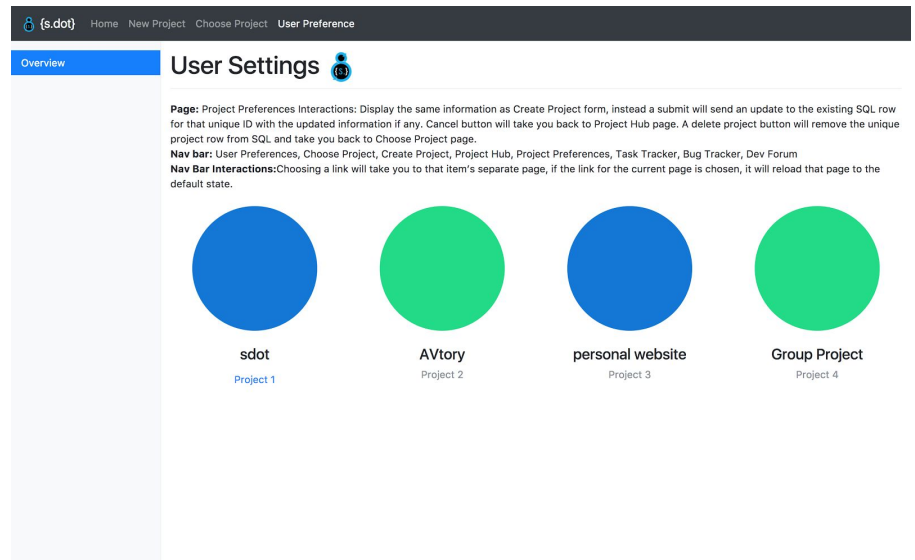
User Preferences, Choose Project, Create Project

### **Navigation Bar Interactions**

Choosing a link will take you to that item's separate page, if the link for the current page is chosen, it will reload that page to the default state.

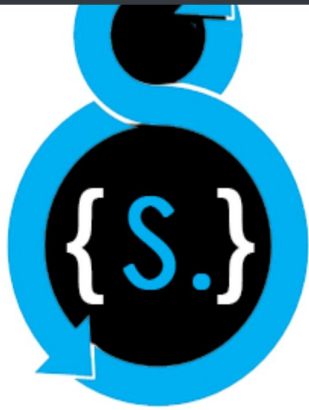
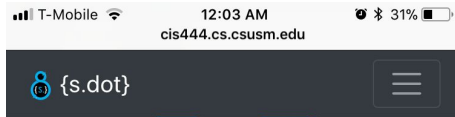
### **Special Requirements**

Take no longer then 30 secs to load selected input.

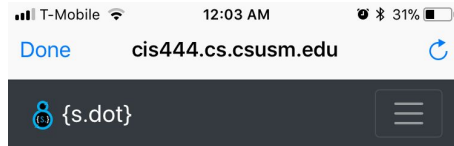


*v2: Know users projects to add to thread.*

# Web Browser Mobile Views



During SCRUM development cycle (a specific class example would be CS 441), there seemed to be a lack of accessible automation tools that would allow for software team communication, task tracking and bug tracking. Most groups default to using a mix of tools and manual documentation methods, such as Excel or Access, in association with GitHub and email



## Create New Project



### Enter in project information

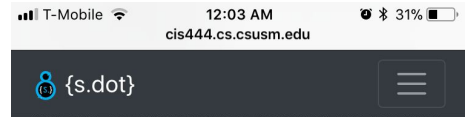
Project Name:

Collaborators:

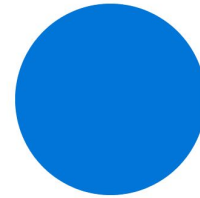
Project Summary:

Create

Clear

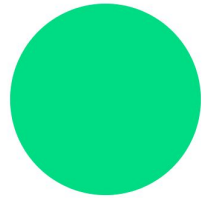


you to that item's separate page, if the link for the current page is chosen, it will reload that page to the default state.



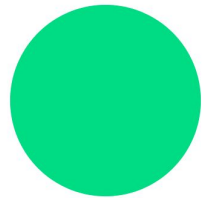
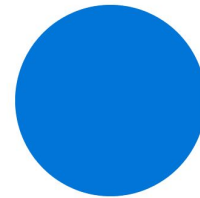
sdot

Project 1



AVtory

Project 2



{s.dot}



Selected Project:

{s.dot} Project 001

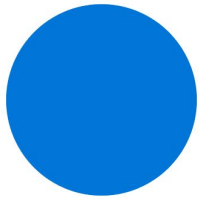


{s.dot}

Project Name {s.dot}

Collaborators

Max Harrell	Alex Hom	Denise Nguyen	Cody R. Solley
-------------	----------	---------------	----------------



{s.dot}

Overview

Bug Tracking

Task Tracking

Dev Form

Track Task

#Task ID	Priority	Task	Hours	Assigned To	Completed
001	High	Structure: Create Item Object Class	4	Meow	Yes
001	High	Structure:	4	Meow	Yes

Done < >

cis444.cs.csusm.edu

{s.dot}

Overview

Bug Tracking

Task Tracking

Dev Form

Selected Project: {s.dot} Project 001

{s.dot}

Project Name {s.dot}

Collaborators

Max Harrell	Alex Hom	Denise Nguyen	Cody R. Solley	Victor Zavala
-------------	----------	---------------	----------------	---------------



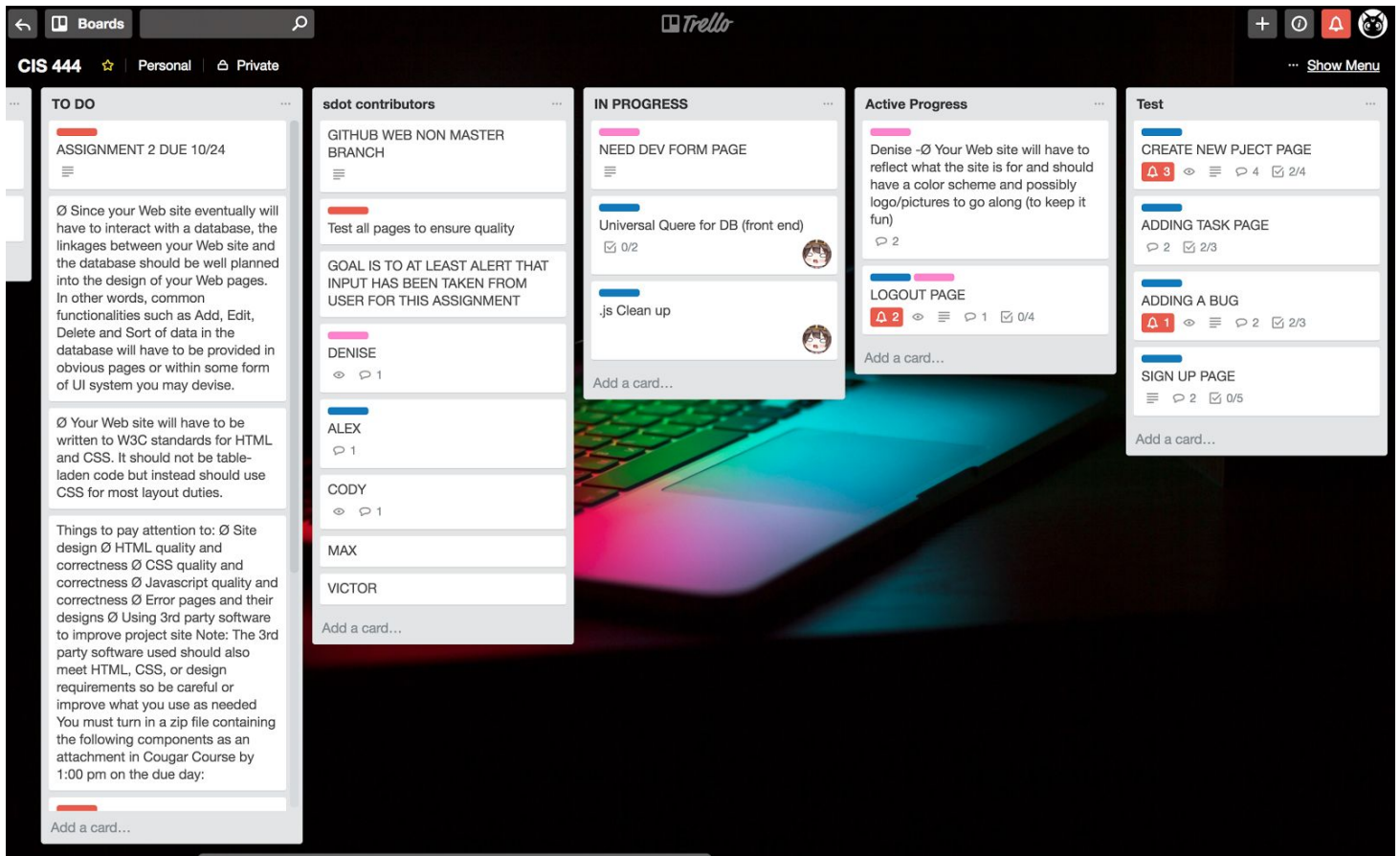
# Project Plan

		<b>sdot Software Development</b>	<b>64 days</b>	<b>Fri 9/15/17</b>	<b>Wed 12/13/17</b>			
		<b>Planning Phase</b>	<b>15 days</b>	<b>Fri 9/15/17</b>	<b>Thu 10/5/17</b>			
		Determine project scope	2 days	Mon 9/18/17	Tue 9/19/17			
		Define preliminary resources	4 days	Wed 9/20/17	Mon 9/25/17	2		
		Scope complete Present	4 days	Mon 10/2/17	Thu 10/5/17	3		
		<b>Design Phase</b>	<b>36 days</b>	<b>Thu 10/5/17</b>	<b>Thu 11/23/17</b>			
		Review preliminary software specifications	2 days	Mon 10/2/17	Tue 10/3/17			
		<b>Wire Frames</b>	<b>7 days</b>	<b>Thu 10/5/17</b>	<b>Fri 10/13/17</b>	<b>6</b>		
		Determine how many pages are needed & Design Wireframes	3 days	Tue 9/26/17	Thu 9/28/17			
		Create Page Flow Diagram	3 days	Fri 9/29/17	Tue 10/3/17	8		
		Incorporate feedback into functional specifications	1 day	Wed 10/4/17	Wed 10/4/17	9		
		Design complete	6 days	Thu 10/5/17	Thu 10/12/17	10		
		<b>Design Database</b>	<b>11 days</b>	<b>Thu 10/5/17</b>	<b>Thu 10/19/17</b>			
		Obtain Dev Data	1 day	Thu 10/5/17	Thu 10/5/17			
		Identify relationships between data	5 days	Fri 10/6/17	Thu 10/12/17	13		
		Create initial tables	1 day	Fri 10/13/17	Fri 10/13/17	14		
		Normalize tables	3 days	Mon 10/16/17	Wed 10/18/17	15		
		Create ERD	2 days	Thu 10/19/17	Fri 10/20/17	16		
		Create Schema	2 days	Mon 10/23/17	Tue 10/24/17	17		
		Identify discrepancies & revise if necessary	3 days	Wed 10/25/17	Fri 10/27/17	18		
		<b>Implementation Phase</b>	<b>15 days</b>	<b>Fri 10/13/17</b>	<b>Thu 11/2/17</b>	<b>11</b>		
		<b>Web</b>	<b>14 days</b>	<b>Mon 10/16/17</b>	<b>Thu 11/2/17</b>	<b>7</b>		
		Review functional specifications	3 days	Wed 10/18/17	Fri 10/20/17			
		Implement view pages	1 day	Mon 10/23/17	Mon 10/23/17	22		
		Implement pages	14 days	Mon 10/16/17	Thu 11/2/17			
		<b>Database</b>	<b>4 days</b>	<b>Fri 10/20/17</b>	<b>Wed 10/25/17</b>	<b>12</b>		
		Create MySQL for each table	1 day	Fri 10/20/17	Fri 10/20/17			
		Populate database	3 days	Mon 10/23/17	Wed 10/25/17	26		
		Generate list of commonly used queries	3 days	Fri 10/20/17	Tue 10/24/17			
		<b>Connect Database to Web Pages</b>	<b>14 days</b>	<b>Fri 10/13/17</b>	<b>Wed 11/1/17</b>			
		Implement PHP or Python to establish initial connection	2 days	Thu 10/26/17	Fri 10/27/17	23,27		
		Implement PHP or Python queries for specific pages	10 days	Fri 10/13/17	Thu 10/26/17			
		Review, Test, and Revise as necessary	4 days	Fri 10/27/17	Wed 11/1/17	31		
		<b>Software development AVtory complete</b>	<b>12 days</b>	<b>Tue 11/28/17</b>	<b>Wed 12/13/17</b>			

Diagram: v1 Gantt Chart for Web Development

v2 : Will be updated and each task will be assigned to an individual.





*Moving forward we will be using Trello for better communicating in what task need to be done.*

`{ s . dot }`