# **Incident Tracker**





# **Justin Hellsten & Michael Burnie**

April 2014

### **Table of Contents**

Revisions	3
Description	9
Design	g
Details	11
Wireframes	12
Navigation	12
Footer	12
Register/Log In	13
View Issues	14
Create Issue	15
Edit Issue	16
Account Settings	17
Screen Captures	18
Log In	18
Register	19
View Issues	20
Create Issue	22
Edit Issue	23
Account Settings	25
Potential Future Functionality	26

# **REVISIONS**

#### A complete list of revisions can be found in our Github organization:

https://github.com/JustMikeHellBurn/AdvancedWebProject2

Version	Date	Contributors	Description of Changes	
1.0	2014/04/14	Michael Burnie	- Ready for deployment	
			- Added Documentation	
0.80	2014/04/14	Justin Hellsten	- Fix issue where you could enter any old password and still change the password	
			- Fix issue where create event form was not disappearing if the issue is set to resolved	
0.77	2014/04/14	Justin Hellsten	- Added dummy data into database. You can import the dummy data by using the hellsten_project2.sql in the scripts directory.	
0.76	2014/04/14	Justin Hellsten	- Fixed issue for account settings page where you could change anything unless you change the password	
0.75	2014/04/14	Justin Hellsten	- register_success.php page styled to the same theme as the register page	
			- The whole site is responsive	
0.74	2014/04/13	Justin Hellsten	- Website is now responsive	
			- Fixed 404 page	
			- Added title and description to all pages	
			- Fixed issue where you can change your password to nothing	
0.73	2014/04/13	Michael Burnie	- Merged conflicts	
0.72	2014/04/13	Justin Hellsten	- Removed unused files, some were bad, example constants.php in web resources was conflicting with constants.php in libraries	
0.71	2014/04/13	Justin Hellsten	- Edit Issue create event button now says "Create event"	
			- jquery and jquery validation links set to use CDN	
			- 404 Page styling applied	

0.7	2014/04/13	Justin Hellsten	- Fixed issue with create issue page textarea
			- Applied dashboard form styling to edit issue
			- Change all includes to require
			- Removed all single line database connection calls, to use db_connect.php in libraries
			- Provided comments to all files
			- Change redirect statements with variables when possible
0.65	2014/04/13	Michael Burnie	- Made textarea on create issue slightly larger.
0.64	2014/04/13	Michael Burnie	- Added Customer Information and Incident ID sections to edit_issue
			- Old tickets may not have a submittedByID, but new tickets will now
			- Changed/added colours for status rows
			- Larger textarea in edit_issue
0.63	2014/04/13	Michael Burnie	- Fixed bug where Resolution field was showing even if ticket wasn't closed
			- Fixed bug where creating a new event was still possible after the ticket had been closed
			- Fixed bug where the textarea placeholder would ask for a resolution even though the bug wasn't being switched to resolved/closed
0.62	2014/04/13	Justin Hellsten	- Fixd issue with footer height to adjust during window resize
			- Fixed issue where mysqli close was giving error in footer on the live server
			- Applied styling to create issue page
			- Index page redirects to view issues page
0.61	2014/04/12	Justin Hellsten	- Fixed an issue where create a new event wasn't being displayed.
			- Applied styling view_issues, edit_issues tables, different colors represents the status or heading
			- Made sure all dashboard files use require for header and footer, and cleaned up PHP echos where not needed.

			1	
			- Moved all database connections to close in the footer, before they were closed before including the footer	
0.6	2014/04/12	Justin Hellsten	- Fixed issue with dashboard nav where pipes caused it to look like you were clicking the next link over.	
			- Removed unused web_resources files admin_login.php, admin_logout.php, *.orig	
			- Account Settings fully functional. User can modify/update username, email, user type, and password. Requires input of new password and confirmation.	
			- Account Settings Page CSS Styling applied.	
			- Added db_connect.php to libraries. Included in dashboard_header, purpose to allow web_resources to access database for convenience	
0.51	2014/04/12	Michael Burnie	- Comments added throughout the system, including comment headers on many pages	
0.5	2014/04/12	Michael Burnie	- Added resolution field to edit_issue	
			- The comment field becomes a resolution field as well when the status is set to either "Closed" or "Resolved"	
			- In the above state, the ability to enter new events is revoked as well	
			- A "Show All Incidents" checkbox has been added to view_issues, whereby all "Closed" issues are hidden by default unless this is checked. Note that this does not hide "Resolved" issues.	
			- Removed a font that was 404'ing	
0.42	2014/04/12	Michael Burnie	- Hopefully fixed conflicts	
0.41	2014/04/12	Michael Burnie	- Fixed bug where priorities weren't showing	
0.4	2014/04/12	Michael Burnie	- Added create issue and ims_incident pages	
			- You can now create an entirely new issue	
			- Major fixes to view_issues and edit_issue, including where status/assignedTo wasn't showing most recent	
			- You can assign a ticket to nobody	

0.3	2014/04/12	Michael Burnie	- New column: assignedToID in incidentEvents table. This determines who the event is assigned to, and ultimately who the incident is currently assigned to  - edit_issue now allows you to create new events, which includes some validation as comments are required (ims_event.php)  - edit_issue now shows all required information, including a robust event list  - View issues now shows the most recent status, and who the ticket is assigned to
0.27	2014/04/11	Justin Hellsten	- Fixed bug with mysql_real_escape which allowed anyone to bypass security by registrying any user, followed by entering no username or password during login - Deleted images that are not used
0.26	2014/04/11	Michael Burnie	- Changes to view_issues to add a query string - Added edit_issue.php
0.25	2014/04/11	Justin Hellsten	- Site Security, prevent non-register users from accessing the dashboard - User session saved when registered or log in - Common header added to dashboard pages, nav links: View Issues, Create Issue, Account Settings, Log Out; and welcome message right side
0.24	2014/04/11	Justin Hellsten	<ul> <li>Register form can now register users</li> <li>Login forms (both index.php and on the register page) can log in users</li> <li>Created register success page, that displays name of user and links them to the dashboard page</li> <li>Basic validations on username, password, and email fields on the PHP side when registering users, failed validation redirects to the registers page</li> </ul>
0.23	2014/04/10	Justin Hellsten	<ul> <li>Added user type to registration form</li> <li>Added jquery validation to form, custom error messages are set for each field</li> <li>Added styling to custom error messages (appear on the right side of the input fields)</li> </ul>

0.22	2014/04/10	Justin Hellsten	- Added social icons for Justin and Michael in the register's footer page
			- Copyright text added to the register's footer page. Justin and Michael link to their respected websites.
			- Database connection added to dashboard_header.php
0.21	2014/04/10	Michael Burnie	- Built simple view_issues.php page
0.2	2014/04/10	Justin Hellsten	- Added Aleady Signed Up Form on the right side of the register.php page
			- Border line added to distingush between the two forms (register and login)
			- Footer background (tile pattern) added
0.14	2014/04/10	Justin Hellsten	- Change Register to Sign Up!
			- Register page form now has username, email, password, confirm password input fields, and a register button.
			- Blue/White theme applied.
0.13	2014/04/10	Justin Hellsten	- Change title to Incident Tracker.
			- Created js folder and added jquery 1.10.0 and login.js for login submission.
			- Register button added and placed next to login button, and styled the same as the login button.
			- Margin left padding added to flush the buttons with the input fields.
0.12	2014/04/10	Justin Hellsten	- Added database constants to connect to remote database server on justinhellsten.com
			- Added register page
0.11	2014/04/09	Justin Hellsten	- Added login page and applied styling
0.1	2014/04/08	Justin Hellsten	- Added .htaccess to remove php extensions at the end, and to redirect .php url enteries without it
			- Added ErrorDocument in .htaccess file to redirect to 404.php if file or directory is missing, or directory is forbidden
			- Created login page with styling

Incident Tracker

Justin Hellsten & Michael Burnie

# DESCRIPTION

The Incident Tracker is a simple web-based Help Desk software that allows users to view, create and edit incidents. Creating an incident involves setting a title, a description of the incident, and a priority value. These incidents can then be assigned to users in the system. Any changes made to incidents are recorded, such as status changes and communication between users using the comment system. Once an incident has been closed or resolved, a resolution must be filled in by the user to provide details on how the issue was solved.

In order to access this functionality, users must login or register through our portal; otherwise, they cannot access any of the pages as they are locked by sessions. Once the user is logged in, they can begin to view, create, and edit incidents.

#### **DESIGN**

The Incident Tracker is a web-based solution with a PHP backend. This allows for scalability, consistency, and security, as there are many common elements throughout the system. The design is fairly simple, as there are few fields that are required to enter. Incident Tracker automatically generates many fields for the user, as this solution is targeted towards those that may not be familiar with more complex incident management systems.

Various colours are used throughout Incident Tracker, which is particularly useful for showing the different statuses on the View Issues and Edit Issue pages. For fonts, various Google Fonts are in use.

The Incident Tracker also uses security and validation to ensure data is correct. People cannot view any pages aside from the log in or register pages unless they have a user session (which requires login credentials). Forms are also validated against incorrect input, ensuring data integrity.

#### Status Colours

Rows on the view/edit issues pages and on the Event List are coloured depending on the corresponding status. These colours are as follows:

Status	Color Hex	Color Swatch	
Closed	#808080		
Need Information	#FF0066		
In Progress	#3399FF		
Resolved	#66FFF		
Assigned	#33CC33		
NEW	#FFFF00		

#### **DETAILS**

This section describes various features and functionality in more detail.

#### Incident/Issue/Ticket

Incidents (or Issues/Tickets) are the primary objects in the system. They are problems that a certain user or group is facing, which could be anything from requiring information to something being broken. They are used to document changes and updates to the issue, until it is finally resolved or closed. Several incidents are usually open at once, which are listed on the <u>View</u> <u>Issues</u> page in a table format.

#### User

A user is anyone who uses the system. This requires them to have credentials to log in and use the Incident Tracker.

#### Status

The status of the ticket determines the next course of action or what is currently going on with the ticket. They can be used as the customer sees fit, but there are general guidelines to follow.

There are currently 6 different states, with the following guidelines:

**NEW:** The ticket has just been created and may require more information.

Assigned: The ticket has been assigned, but no work has been done on it yet.

**In Progress:** Work is in progress but not complete.

**Need Information:** Information is required to whomever the ticket is assigned.

Resolved: The issue has been resolved and the customer should ensure that it is.

**Closed:** The issue is closed and requires no further feedback.

#### **Events**

Events can be created on the <u>Edit Issue</u> page. They determine the ticket's current state and who the ticket is assigned to. An event must be associated with a comment and a contributor, which is recorded into the <u>Event List</u>.

#### **Event List**

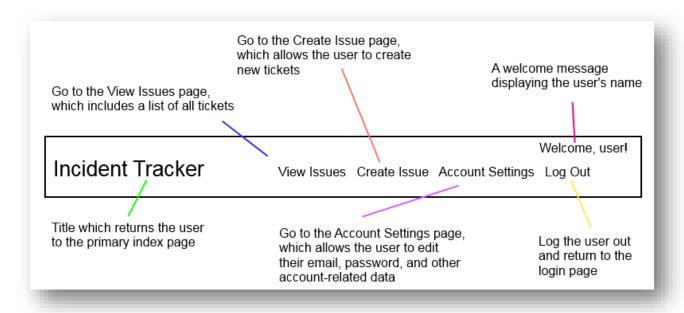
The Event List can be seen on the <u>Edit Issue</u> page. This feature records every change made to the ticket, such as status updates and comments. The timestamp of the event is recorded, as well as the user who initiated the event. When a new user is assigned to the ticket, they can see past developments from the Event List, so they can be quickly brought up to speed. These events cannot be edited.

advanceweb.justinhellsten.com/project2 comp2068.michaelburnie.com/project2

# **WIREFRAMES**

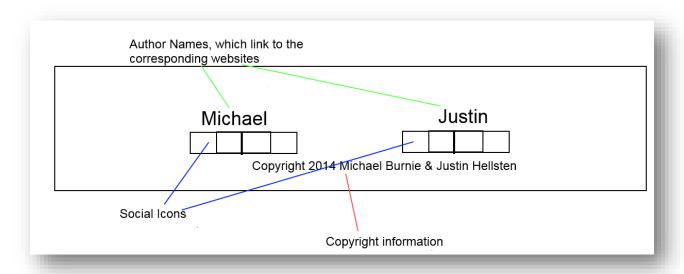
### **NAVIGATION**

\*Included on each page as it is part of the template



#### **FOOTER**

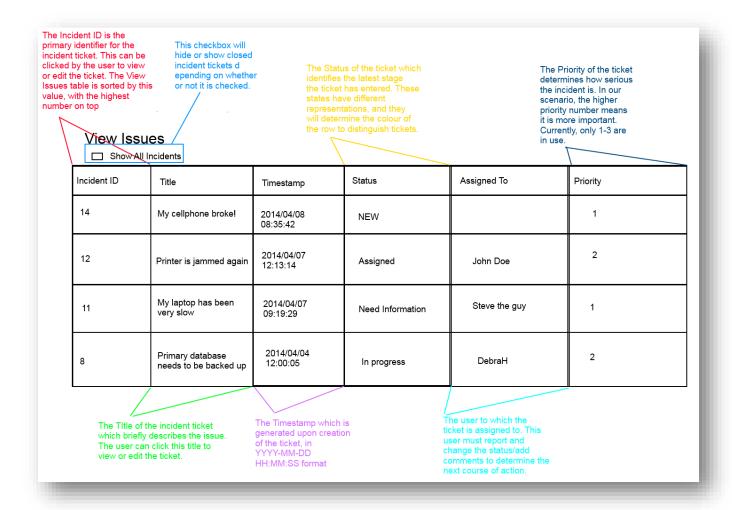
\*Included on each page as it is part of the template



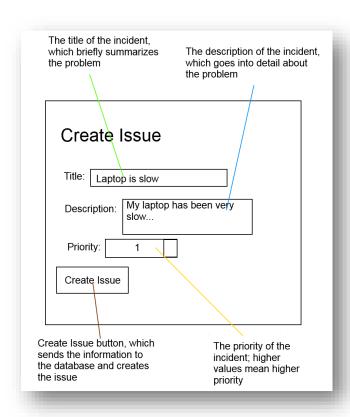
# REGISTER/LOG IN

The user must enter a unique username and e as well as provide a password in order to regis into the system. Validation is used to ensure th passwords match and that the username/emailerady registered.	ter at
Register	Log In
Username: Johnny	Username:
Email: me@me.com	Password:
Type: Admin	
Password:	Log In
Confirm Password: ********	
Create Account	
Create Account button which registers the user into the database, allowing them to log in and view/create/edit issues.	Log In button which is used by users who have already registered to view/create/edit issues.

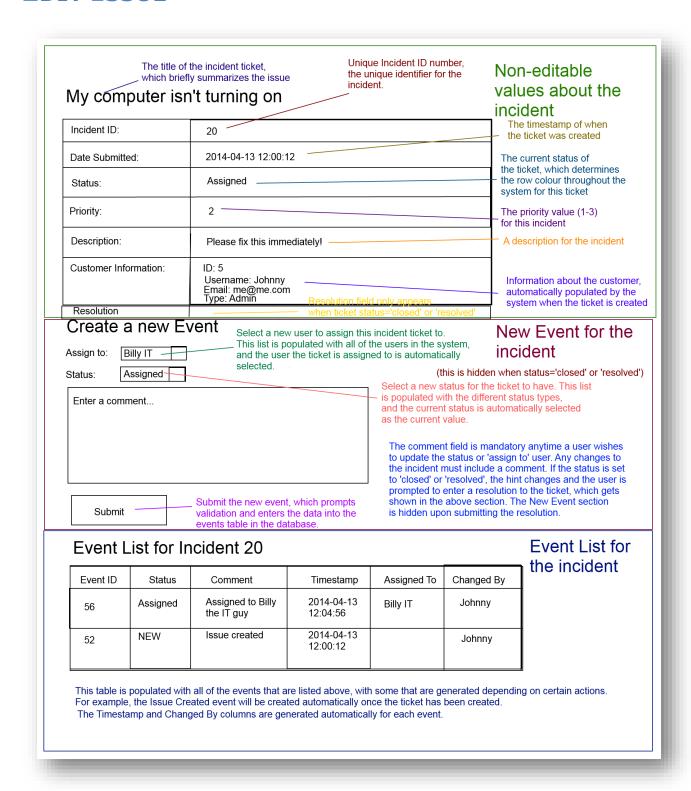
### **VIEW ISSUES**



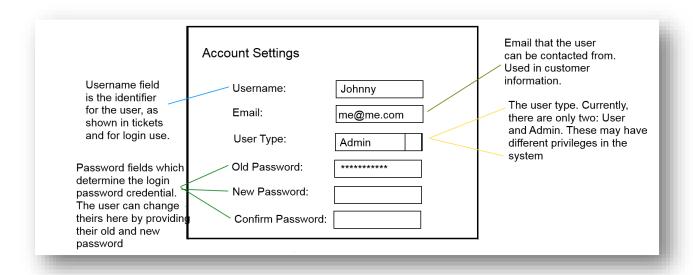
# **CREATE ISSUE**



### **EDIT ISSUE**



# **ACCOUNT SETTINGS**



# **SCREEN CAPTURES**

# **LOG IN**

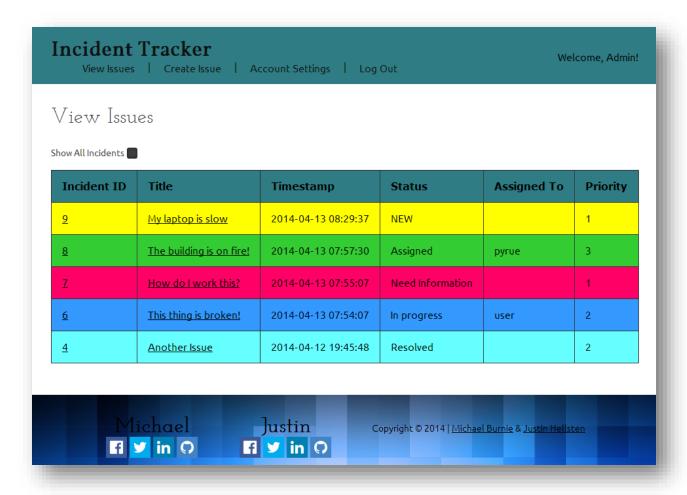


#### REGISTER



### **VIEW ISSUES**

#### **Hide Closed Incidents**



### **Show All Incidents**

# View Issues

Show All Incidents 🗹

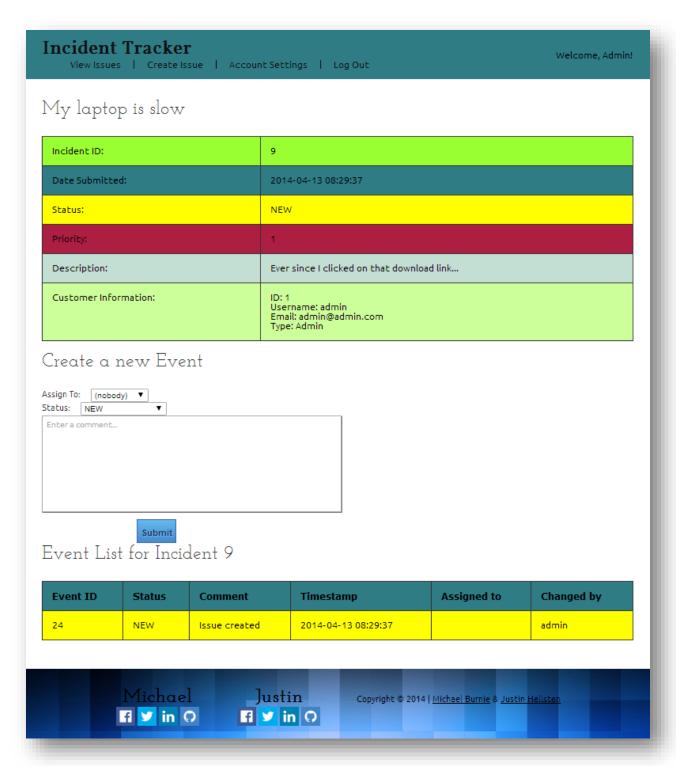
Incident ID	Title	Timestamp	Status	Assigned To	Priority
2	My laptop is slow	2014-04-13 08:29:37	NEW		1
<u>8</u>	The building is on fire!	2014-04-13 07:57:30	Assigned	ругие	3
Z	How do I work this?	2014-04-13 07:55:07	Need Information		1
<u>6</u>	This thing is broken!	2014-04-13 07:54:07	In progress	user	2
<u>5</u>	<u>title</u>	2014-04-13 00:36:13	Closed		1
4	Another Issue	2014-04-12 19:45:48	Resolved		2
3	Something else broke	2014-04-12 19:09:17	Closed	user	3
2	The printer is broken!	2014-04-12 18:56:20	Closed	user	2
1	<u>test</u>	2014-04-10 14:04:36	Closed	ругие	1

# **CREATE ISSUE**



### **EDIT ISSUE**

#### New

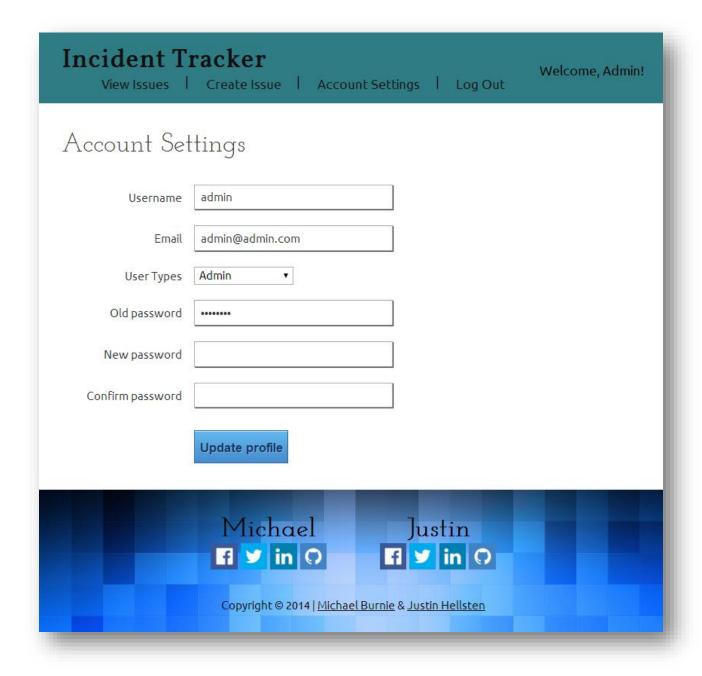


#### Closed





# **ACCOUNT SETTINGS**



# POTENTIAL FUTURE FUNCTIONALITY

The following is a list of features that could be implemented in the future:

- Search filter for incidents, allowing users to search keywords in descriptions, titles, and comments.
- 2) Currently, we have two user types: User and Admin. These user types don't have any special privileges over each other, but in the future, we can limit status changes to Admins only, for example. Admins may also be able to edit closed tickets.
- 3) A new database structure could add to the complexity of the system. Although our database structure is functional, it may be restricting from adding more robust features.
- 4) Sortable table headers could be used throughout the system, such as the view\_issues and edit\_issue pages.
- 5) Allowing to add attachments to incident tickets
- 6) Adding email support would increase user activity and responsiveness. Anyone associated with the ticket could be emailed when a status is updated, a ticket is reassigned, and a user adds a comment. The email should include this update information.
- 7) Hashing and salted passwords for increased user security
- 8) Email confirmation once a user is registered
- 9) Allow changes to be made to incident tickets on the view issues pages, such as the status, who the ticket is assigned to, and a comment modal window that pops up.
- 10) An Incident Tracker Logo, for professionalism purposes
- 11) Additional status types, depending on what's required. Additionally, having the ability to create new statuses as the customer requires.
- 12) Implementing a hierarchy of states, meaning a certain status cannot be set until a previous status is set. For example, a ticket cannot be resolved until it has been set to Assigned or In Progress.