Incremental Testing and Regression Testing

CS408
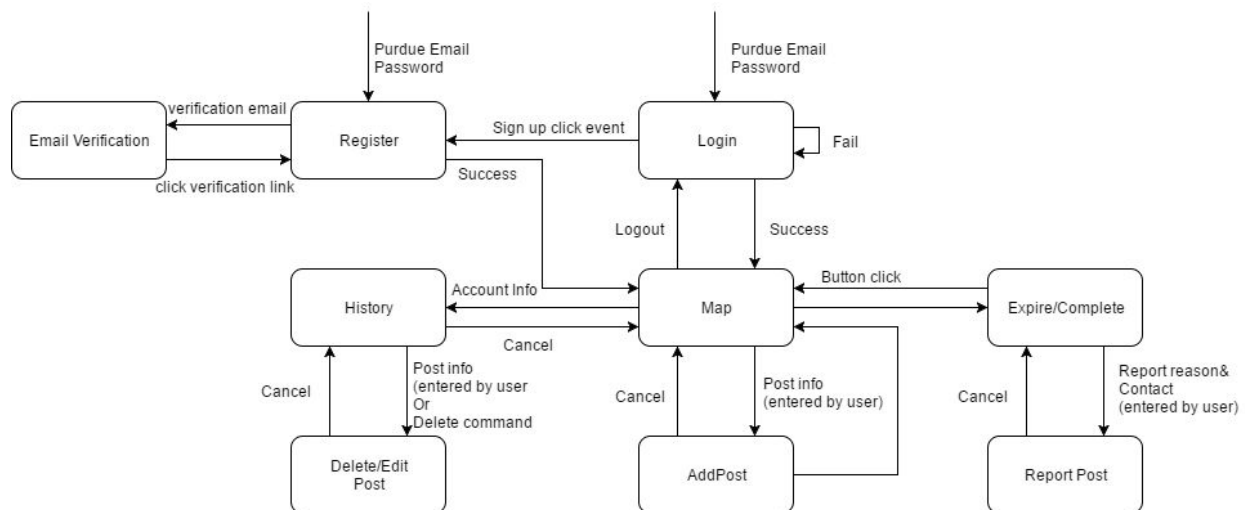
Team 20: Heng Li, Yiyan Zhou, Yibin Wu, Ketao Chang, Weichu Hu

The project is currently deployed at https://lofo-purdue.herokuapp.com

Right click to create a new post

1 Classification of Components

1.1 Define all components

1.2 Which form of incremental testing did you follow

• Top-down or Bottom-up? Explain.

We choose to follow Top-Down incremental testing. Because this test pattern basically follows the control flow. It's pretty straightforward and time-saving because it's easier to write stub modules than driver module.

2 Incremental and Regression Testing

2.1 Automation

In root directory, after install the packages required, input "npm test" in command line, the automated tests will be operated, there are total 12 test cases to check every functions used in LOFO. Before testing, the database should contain posts with tag from 1 to 3 and at least 1 lost post and 1 found post. The authentication system won't be tested due to the email verification feature.

2.2 Defect log

Incremental Testing

Module: Login & Register			
Defect #	Description	Severity	How Corrected
1	After user go to register page, they can't go back to login page if they change mind	1	Add a 'Back' button, when user click it, redirect to login page
2	Even though we force the format that email end with "@purdue.edu". But we can't verify the owner of the email address	1	We update the register process, after user enter the email address, they will receive a code to verify the email address.

Module: Filter			
Defect #	Description	Severity	How Corrected
1	After applying a filter, if click on a detailed panel, it does not show detail properly and the system error out.	1	It is because after applying filter, some of the properties the detailed panel use is missing. Adding those properties to the post solves this problem.

Module: Map			
Defect #	Description	Severity	How Corrected
1	The detailed panel doesn't open and	1	Bind the detailed panel

	close properly according the clicking event on markers.		trigger with the infoWindow event, open and close it according to the status of infoWindow

Module: Expired/Completed Posts			
Defect #	Description	Severity	How Corrected
1	The switching tab between Expired and Completed Posts does not display properly. The unselected one is hidden	3	This is due to an improper use of a template in another page. Removing that template does fix this problem

Module: Edit			
Defect #	Description	Severity	How Corrected
1	When users edit their posts, they cannot delete the title and description.(That is, a post must have title and description. Otherwise it will be a useless post)	2	Add a branch deal with the condition that users delete the title or description of a post. An alert will appear and the edited post will not be submitted.
2	If a user does not have any post, there should be a something on the blank part letting them know they do not have posts, when they go to the history page.	3	Add a notice div on the page.
3	When user confirms a completed post, they cannot enter their account.(That is, the person who found the item and the person who lost the item could not be the same person)	2	Add a branch deal with the condition that the confirmer account entered is the user's account. An alert will appear and the post will not be confirmed.
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Regression Testing

Module: Login & Register			
Defect #	Description	Severity	How Corrected
1	After user click send vcode button, the verification code are not send to user's email address.	1	Double check the verification code API. Print out log information to debug. And fixed the issue.

Module Map			
Defect #	Description	Severity	How Corrected
1	Entries of the detailed panel do not change properly when the user click on different markers. Works fine if double clicking.	2	Implement two-way binding across the related components. Then bind entries of HTML with the related data.
2	When screen shrinks, contents of the detailed panel will go beyond the entries of the panel.	3	Set a word-wrap property of the entries in HTML.
3	If the contents are too long, the content will be very long and exceeding the height of the map.	3	Make the detailed panels a scroll-down element and fix its height to the map's height.

Module History			
Defect #	Description	Severity	How Corrected
1	If the user submit a post without title or description, the title on the history page will become empty because the two-way binding.(the page using Angular 2 frame will respond synchronously to the change made to the itself)	2	After submit a post, reload the post regardless success or fail.

2	The notice div should not appear if users have posts.	2	Add a conditional branch, if users have posts, hide the notice div.

3 Update Product Backlog

Backlog Id	Functional Requirement	Hours	Status
1	As a user, I want to log in through Purdue email.	18	Complete in sprint 1
2	As a user, I want to create a post.	5	Complete in sprint 1
3	As a user, I want to upload the photo in the post.	10	Completed in sprint 2
4	As a user, I want to have description of lost item and the location found/lost in a post.	6	Complete in sprint 1
5	As a user, I want to have my contact information section in a post.	3	Complete in sprint 1
6	As a user, I want to add tags to a post.	3	Complete in sprint 1
7	As a user, I want to edit my post.	5	Complete in sprint 1
8	As a user , I want to delete an ongoing post and my personal contact information.	5	Complete in sprint 1
9	As a user, I want to see the lost and found items pin on a map.	15	Complete in sprint 2
10	As a user, I want to view either the lost or found post on the map.	4	Complete in sprint 2
11	As a user, I want to view items by tags on the map.	3	Complete in sprint 2

12	As a user, I want to view posts by specific created time interval.	3	Complete in sprint 2
13	As a user, I want to see a list of items when I click on a certain building.	3	Completed in sprint 2
14	As a user, I want to see details of a post when I click on a post in the list.	5	Complete in sprint 2
15	As a user, I want to see my own post history.	6	Complete in sprint 1
16	As a user, I want to verify the identity of each other when a lost and found matched.	8	Complete in sprint 2
17	As a user, I want to see all the solved and expired posts.	5	Complete in sprint 2
18	As a user, I want to report a falsely claim.	10	Complete in sprint 2