

Incremental and Regression Testing - Team 7

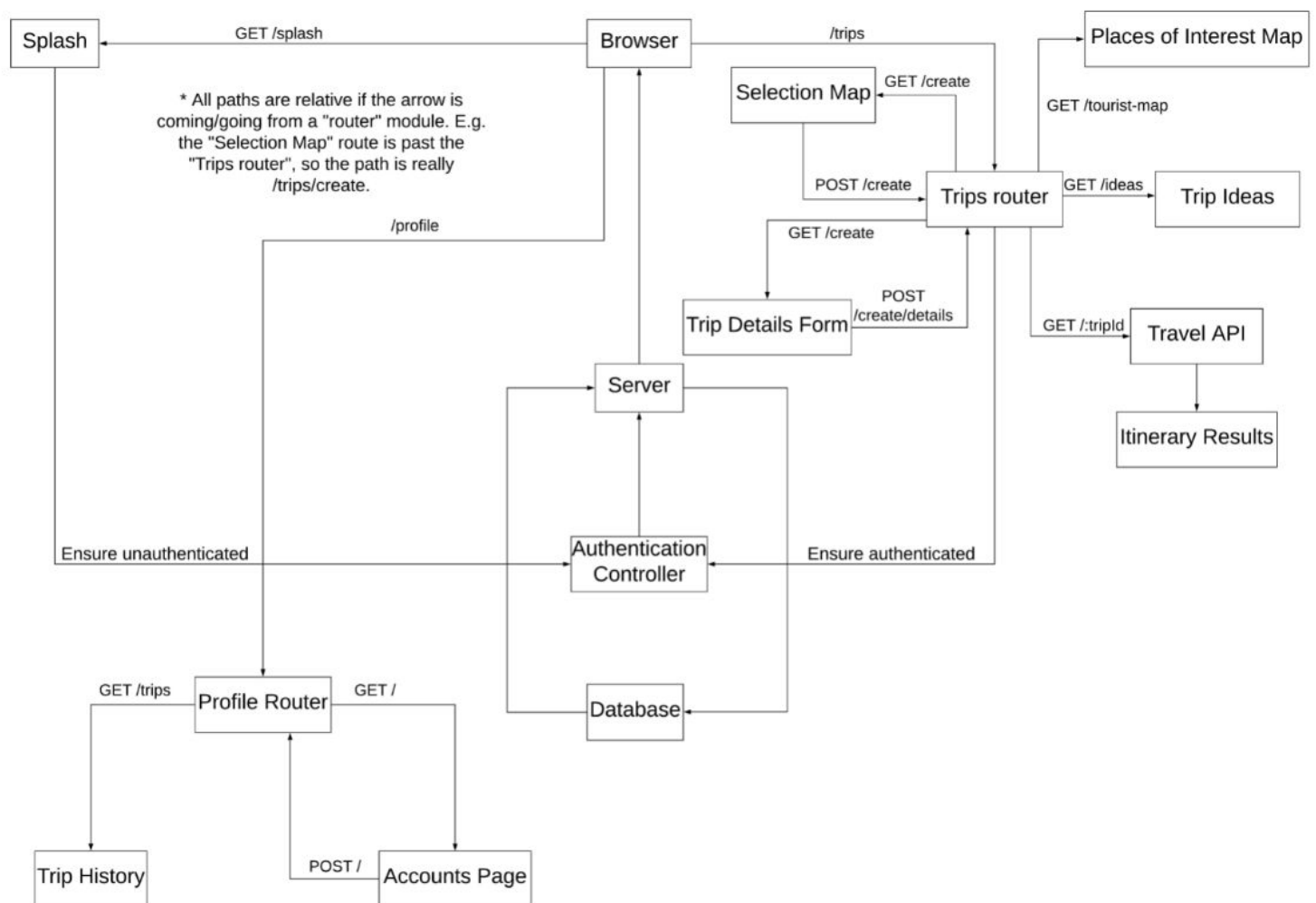
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1. Classification of Components

1.1 -



Component	Input	Output	Dependent
Database	Trip information, profile information	Trip information, profile information	Server
Authentication	Google account information	Profile	Server
Accounts Page	Profile information	Profile information	Profile Router
Travel API	Trip information	Itinerary Results	Itinerary Results
Splash page	-	Authentication page	Authentication Controller
Selection Map	Authentication	Locations	Trips Router
Server	Trip information	API results	Database, Browser
Trips router	Trip information	API results	Authentication Controller, Travel API, Places of Interest Map, Trip Ideas, Selection Map, Trip Details Form, Browser
Itinerary Results Form	Travel API	Itinerary	Travel API
Trip History	Trip Information	Trip History Page	-
Profile Router	Browser Information	Profile Information, Trip Information	Trip History, Accounts Page
Browser	All information	All information	Profile Router, Accounts Controller
Trip Details Form	Trips Information	Trips Information	Trips Router
Trips Router	Map Information	Itinerary Information, Trip Idea Information, Places of Interest Information	Selection Map, Trip Details Form, Places of Interest Map, Trip Idea, Travel API, Authentication Controller

Places of Interest Map	Trip Information	Trip Information Details	-
Trip Ideas	Trip Information	Idea Information	-

1.2 - Similar to sprint 1, we continued to develop the front end part of our webapp first and then moved on to the backend. As we built the backend, we then would slowly integrate it with our frontend and at each step would test the features in relation to our front end. Since we were able to follow the control flow from frontend to backend we did a top down testing approach.

2. Incremental and Regression Testing

Incremental Testing Defect Log

Defect No.	Description	Severity	How to correct
1	When testing to make sure that all routes were working, the map page would break when clicking finish when adding previous location functionality	1	The POST request wasn't returning a variable that was used to render the page with ejs - added that return variable to the route
2	While testing login, there was an ejs render error when prev_locations not defined	1	Prev_locations parameter was added as a return variable to the login route
3	While checking to make sure that the new form validation was working, the form validation would never submit if input fields were removed	1	The form validation did not account for the fact that removing locations disabled their input fields and thus there was nothing in the fields - added an if/else statement to check for this
4	Testing different transportation options on the backend failed because the data structure had changed and therefore the data was undefined	1	Updated code to access the new data structure for transportation correctly

5	Upon selecting either the cost efficient option or the nearest option, the results displayed the opposite (so if cost efficient is selected, nearest displayed and vice versa)	1	The two options were switched within the code
6	When checking the remove feature in trip form, once an item was marked as removed, clicking on remove again did not unmark the item	2	The code was comparing string types to booleans, which was causing the issue, fixed to compare to the same type
7	User could enter more than nine, 0, or negative people in the input field for number of people traveling with	1	The input field was changed to a dropdown select

Regression Testing Defect Log

Defect No.	Description	Severity	How to correct
1	Merging in new frontend content caused buttons in map page to be white on white until hovered over	3	Mdb css file was overpowering custom file, so added the 'important' tag to the colors in custom css file
2	Merge conflict caused flight form to appear twice	3	Took out the second loop iteration
3	Fixing the form validation to allow disabled fields caused the backend to break because the first location was also disabled but had a default value that did not get added and was thus undefined	1	Added a default values to the input fields of the first location
4	Merging in new frontend code	2	Fixed typo that caused the ejs file

	caused map markers to not show up when the back button was clicked		to have an error on loading
5	Merging new backend code caused total trip duration to not show up in the trip history page	2	Re-added trip duration back to the trip schema and creation of a trip object
6	Fixing order of locations caused the duration of stay for each location to be off	1	Duration being added was based on the wrong iterating variable, changed to correct variable
7	Fixing order of locations caused some locations to not appear on the itinerary results page	1	The wrong length was being used to iterate over the total number of locations vs. the actual number of locations in order, so some locations were always ignored - fixed iteration length

3. Update Product Backlog

Newest version updated and uploaded to github page

(<https://github.com/tewarip410/CS-408/blob/master/Product%20Backlog%20-%20CS%20408.pdf>)