Incremental and Regression Testing - Team 7
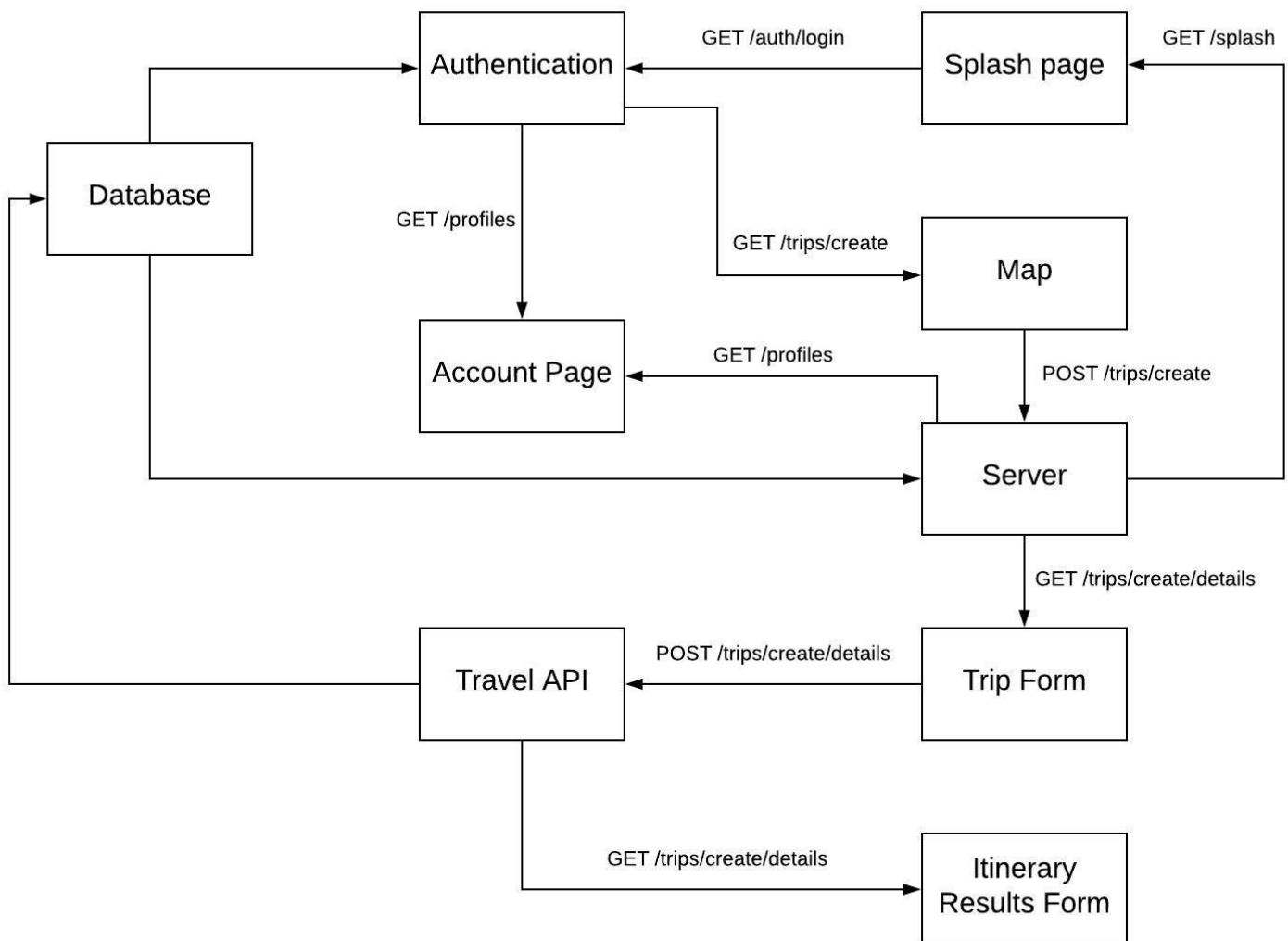28th, September, 2018

Team members: Harika Lingareddy, Simona Virga, Sean Becker, Alexis Williams, Shengqi Wang, Pooja Tewari

Project Coordinator: Yi Sun

1. **Classification of Components**
   1.1 -

Component	Input	Output	Dependent
Database	Trip information, profile information	Trip information, profile information	Server, authentication
Authentication	Google account information	Profile	Account page, map
Account Page	Profile information	Profile information	-
Travel API	Trip information	Itinerary Results	Database
Splash page	-	Authentication page	Authentication
Map	Authentication	Locations	Trip creation form
Server	Trip information	API results	Itinerary form
Trip Form	Trip information	API results	Itinerary results
Itinerary Results Form	Travel API	Itinerary	Trips

1.2 - We first started by building the front end of our webapp. This allowed us to do a top down testing approach by following the control flow of our software and system. Once we started to build our back end, we integrated it and began to test the features in relation to the front end.

2. Incremental and Regression Testing

Incremental Testing Defect Log

Defect No.	Description	Severity	How to correct
1	When a marker is added using the search bar and coordinate input box, those markers cannot be removed by clicking on them	2	Added same listener used by the manual clicking marker function to be able to remove the markers
2	The server crashes if the promises associated with the api calls are rejected	1	Catch statement added to promises
3	Clicking the 'finish' button when there were no markers present would still move on to the next step and break the ejs form	2	Added check to see if the markers array length was 0 and if so, then do nothing when the button is clicked
4	Clicking the 'enter coordinates' button when the input box was empty returned an infowindow named 'Antarctica'	3	Added check to see if the input box was empty and if so, then do nothing when the button is clicked
5	The travel form would submit even if negative numbers/characters were inputted	3	Added form validation to make sure that the input fields only accepted positive numbers
6	The travel form would submit even if fields were left empty	1	Added form validation to make sure that the required input fields had to be completed
7	The results form would show hotel results even if zero days were entered for duration of stay	3	Fixed error that always made duration at least one day
8	The 'delete all markers' function wouldn't work when there were null markers in the markers array	2	'Delete marker' function now removes the marker from the markers array instead of just setting the index to null

Regression Testing Defect Log

Defect No.	Description	Severity	How to correct
1	After adding form validation for empty fields, the form would not submit even if all the required fields were filled out	1	Changed the variable in the form validation take the value of the correct component
2	In fixing the unhandled promise rejections the server does not return any results even if there are some	1	Added checks to make sure the results are returned if the api resolves promises
3	Updating the splash.ejs page caused the bootstrap jquery effects not to work	1	Removed new cdn scripts that didn't load correctly
4	Not all calls to delMarker() were changed to reflect the new way of removing values causing errors	1	Updated all calls accordingly
5	Refactoring code caused the address in the itinerary result to not be displayed	1	Changed name to new object name

3. **Update Product Backlog**
   Newest version updated and uploaded to github page (Product Backlog - CS 408 (2).pdf)