**Section I: Data Documentation**

\* = required field

Users:

{

\_id: "5099803df3f4948bd2f98391" // primary key; its value must be unique in the collection, is immutable, and may be of any type other than an array; autogenerated 12 bytes

\*user\_name: “Jane Doe” field: expected value = full name of user <string>

\*city: “Boston field: expected value = city of user <string>

\*age: “30” field: expected value = age of user <int>

\*height: 5’5” field: expected value = height of the user (in feet/inches) <string>

\*weight: “115” field: expected value = weight of the user (in lbs)<int>

}

Routes:

{

\_id: "6122345gjdi4948by73ubd467" // primary key; its value must be unique in the collection, is immutable, and may be of any type other than an array; autogenerated 12 bytes

\*route\_name: “Route1” field: expected value = name of route <string>

\*route\_start: “111 Cummington Mall, Boston, MA 02215”

field: expected value = run start/end location <string>

\*distance: “4.1” field: expected value = total distance of route (in miles)<float>

\*link: “http://……...” field: expected value = permalink for the map route<string>

}

**Section II: Test Plan and Execution**

1. **Form Field Validations**

|  |  |  |  |
| --- | --- | --- | --- |
| **Page Name** | **Form ID** | **Field ID** | **Expected Value** |
| Routeloop | toolbox-location | address | string |
| Routeloop | Search-form | locationInput | True/False |
| Routeloop | toolbox-location | length | int |
| Login | index | username | string |
| Login | index | password | string |
| Profile | formFirstName | firstname | string |
| Profile | formLastName | lastname | string |
| Profile | formCity | city | string |
| Profile | formAge | age | int |
| Profile | formWeight | weight | int |
| Profile | formHeight | height | string |
| End | routename | routename | string |

2. **Data Validations**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Table** | **Field** | **Type** | **Read**  **/Write** | **Data**  **Source** | **Constraints** | **TestID** | **Pass**  **/Fail** |
| Users | \_id | int | r | userinfo | 12 bytes | data.1 |  |
| Users | user\_name | String, string | r/w | userinfo.firstname + “ “ + userinfo.last\_name | 0 < string < 16 | data.2 |  |
| Users | city | string | r/w | userinfo.city | 0 < string < 50 | data.3 |  |
| Users | age | int | r/w | userinfo.age | 0 < int < 151 | data.4 |  |
| Users | height | string | r/w | userinfo.height | 0 < string < 11 | data.5 |  |
| Users | weight | int | r/w | userinfo.weight | 0 < int < 1001 | data.6 |  |
| Routes | routename | string | w | end.routename | 0 < string < 120 characters | data.7 |  |
| Routes | routestart | string | r | end.routestart | 1 < float < 90  1 < float < 180 | data.8 |  |
| Routes | distance | float | r | end.distance | 0 < float < 30 miles | data.9 |  |
| Routes | link | string | r | end.link | 0 < string < 100 | data.10 |  |

3. **UI Validation**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Page Name** | **UI Element** | **Expected Function** | **Test ID** | **Pass/Fail** |
| Route | Create a Route of this Length | It creates a route of about the specified length | r.1 |  |
| Route | End Run | Ends the run and brings you to the run complete page | r.2 |  |
| Route | Turn crime activity on/off | Displays the crimes nearby the route | r.3 |  |
| Route | Set Start/End Location | Sets the beginning/end of a route | r.4 |  |
| Route | Tools | Brings up most of the buttons concerning elevation | r.5 |  |
| Route | Map Only | Only shows the map, turns off the toolbar | r.6 |  |
| Route | Show directions | Gives google maps direction for the route | r.7 |  |
| Route | Turn plot on/off | Displays the elevation across the entire route | r.8 |  |
| Route | Route (Un)Locked | Toggles whether the user can moves certain points of the route | r.9 |  |
| Route | Turn distance markers on | Turns on distance markers on your route | r.10 |  |
| End | Route Name | Name the route you ran for saving | e.1 |  |
| End | Save Route to Favorites | Saves the route you named to favorites | e.2 | Fails :’( |
| End | Profile | Brings you to the profile page | e.3 |  |
| Login | Facebook Login | Brings you to the facebook login page | login.1 |  |
| Login | Continue to app as guest | Skips logging in and brings you to the route page | login.2 |  |
| Profile | First Name | String between 1-15 chars that saves the user’s first name | p.1 |  |
| Profile | Last Name | String between 1-15 chars that saves the user’s last name | p.2 |  |
| Profile | Age | Number between 1-150 that indicates the user’s age | p.3 |  |
| Profile | Current City | A string that denotes the city the user is in | p.4 |  |
| Profile | Height (feet’inches’’) | String containing the user’s height | p.5 |  |
| Profile | Weight | Float indicating the user’s weight (in lbs) | p.6 |  |
| Profile | Add User | Once all the boxes are done hit the button to add the user | p.7 |  |
| Profile | Saved routes | Shows the user’s saved routes | p.8 |  |
| Profile | Update User | Allows the user to change their height, weight etc. | p.9 |  |
| Profile | Delete User | Deletes user’s information from database | p.10 |  |
| Profile | Start Run | Brings you to map/route page | p.11 |  |

4. **Remediation (TBD)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **BugID** | **TestID** | **Description** | **Severity (1 to 3)** | **Assigned** | **Completed Date** |
| 1 | ui.1 | Putting a large number into the set start/end doesn’t give an error but also doesn’t make a route | 1 |  |  |
| 2 | ui.2 | Hitting end route without any current route inputs the last route made on the app even with closing and reopening the page | 1 |  |  |
| 3 | ui.3 | Putting characters that aren't numbers into the length doesn’t give an error mesage | 1 |  |  |
| 4 | end.1 | Clicking the run it again button does not bring you back to the running api webpage | 3 |  |  |
| 5 | end.2 | If you put an unspecific location into the start location and then end the run you get what you put in, not the location google maps finds for you | 1 |  |  |
| 6 | ui.4 | Sometimes the toolbar for the route completely disappears, not sure what causes it | 2 |  |  |
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